

ADC Automation Workflow User Guide

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Contact Information

AppViewX, Inc.

222 Broadway, FL 19

New York, NY 10038

Email: info@appviewx.com

Web: www.appviewx.com

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Preface

Revision History

Revision	Description	Date
1.0	Initial release of document for Release 2022.1.0	June 2022
1.1	Updated the document for Release 2022.1.0 FP1	September 2022

About this Guide

This guide describes AppViewX's ADC predefined workflows to automate and self-service deployments and helps you to integrate with third-party, best-of-breed, and open-source network services like those provided by application delivery controllers, security devices, certificate authorities, DNS servers, routers/ switches, and more.

Audience

This guide is intended for:

- Application admin/Owner
- DevOps
- Network Engineers
- Architect
- NetDevOps
- SecOps

.

Text Conventions

The following text conventions are used in this document:

Convention	Description
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
`codeblock`	Indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

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Chapter 1: Introduction

- Application Delivery Automation
- Self-service and Automate Application Delivery services

Application Delivery Automation

As your application delivery infrastructure becomes progressively more complex, enterprises must turn to network infrastructure management and automation solutions to ensure successful deployments.

ADC offers predefined workflows to automate and self-service deployments and helps you to integrate with third-party, best-of-breed, and open-source network services like those provided by application delivery controllers, security devices, certificate authorities, DNS servers, routers/switches, and more.

The workflows can integrate with other best-in-class IT service management solutions to govern and record service requests in the larger automated workflow. It can be leveraged to help users move faster, eliminate errors, and reduce costs.

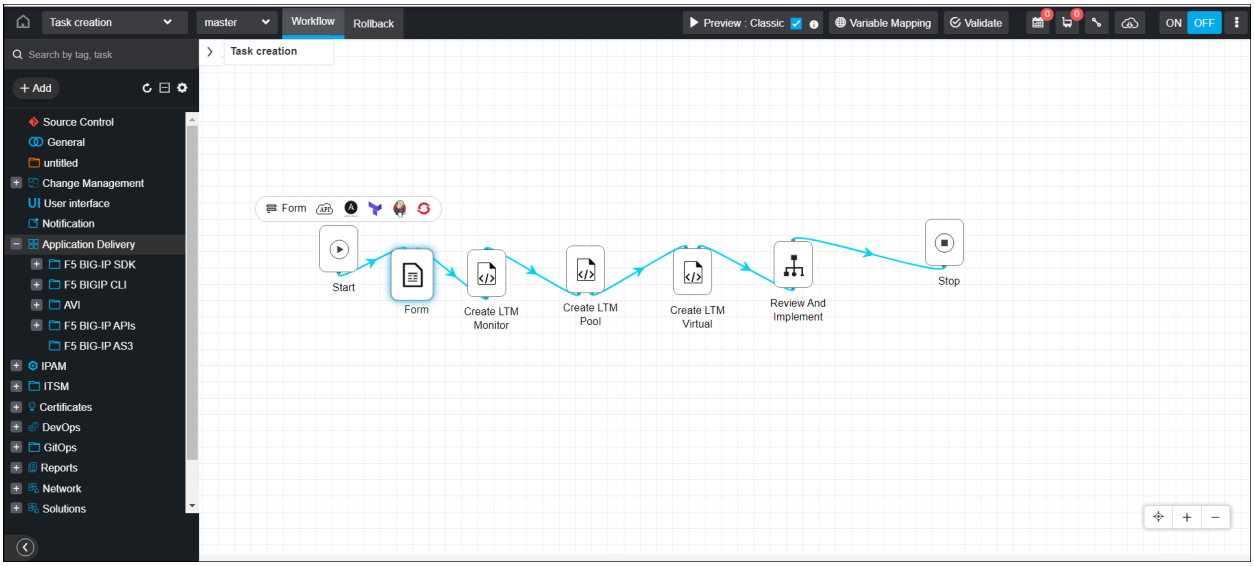
Self-service and Automate Application Delivery services

AppViewX is a true multi-vendor platform for managing the ever-evolving complex enterprise infrastructure. As your application delivery infrastructure becomes progressively more complex, enterprises must turn to network infrastructure management and automation solutions to ensure successful deployments. AppViewX offers a suite of tools for organizations striving to become true digital enterprises.

The AppViewX platform will help you automate third-party, best-of-breed, and open-source network services like those provided by application delivery controllers, security devices, certificate authorities, DNS servers, routers/switches, and more.

The AppViewX platform integrates with other best-in-class IT service management solutions to govern and record service requests in the larger automated workflow. It can be leveraged to help users to move faster, eliminate errors, and reduce costs, making it the best choice for enterprises working to adapt to new technologies, processes, and application delivery expectations.

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Chapter 2: Accessing ADC Predefined Workflow

AppViewX offers Visibility on the One-touch Automation solution offerings to address network and application service requests. Automation solution offerings are available in the Request catalog page.

To access ADC Predefined workflow,

1. Log into the AppViewX application with valid credentials.
2. Go to **Menu** > **Request** > **View/Run**.

   The ADC Predefined workflows are listed. The automation offerings (workflows) are controlled by AppViewX's modern RBAC control feature, thus providing individuals groups to maintain and access their own workflows.

   The ADC workflows are grouped under the following category:

   • F5 BIG-IP LTM
   • F5 BIG-IP GTM
   • F5 BIG-IP System
   • AVI SLB
   • AVI GSLB
   • Infoblox
   • Bluecat

   In the Workflow Catalog page, you can:

   • View the workflows grouped under the categories
   • Edit the workflow
   • Edit the layout
   • Refresh the Workflow Catalog page by clicking the Refresh button
   • Sort the workflows by ascending, descending, or user preference order
   • Expand or collapse all the workflows grouped under the categories by clicking the Expand button or Collapse button.
   • Run a workflow
   • Schedule to run a workflow

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Chapter 3: F5 BIG-IP LTM

- Create F5 LTM VIP – Basic
- Create F5 LTM VIP
- Create F5 LTM VIP with DNS
- Create F5 LTM VIP with Service Now
- Create F5 LTM VIP Advanced
- Create F5 LTM VIP with Partition
- Delete F5 LTM VIP - Basic
- Delete F5 LTM VIP - Advanced
- Disable Unused F5 LTM VIP
- Disable and Delete Unused F5 LTM VIP
- Get Unused LTM VIP and Delete
- Get Unused LTM VIP and Notify
- Disable and Delete Unused VIP-State/Status
- Delete F5 LTM VIP with Service Now
- Manage F5 LTM Pool Members
- Manage F5 LTM Pool members with Service Now
- Modify F5 LTM VIP Advanced
- Create F5 LTM Multiple VIP
- Create F5 LTM Monitors - Multiple Devices
- Create F5 LTM Monitors

Create F5 LTM VIP – Basic

This workflow creates VIP with Single Pool and Single Monitor.

To run this workflow,

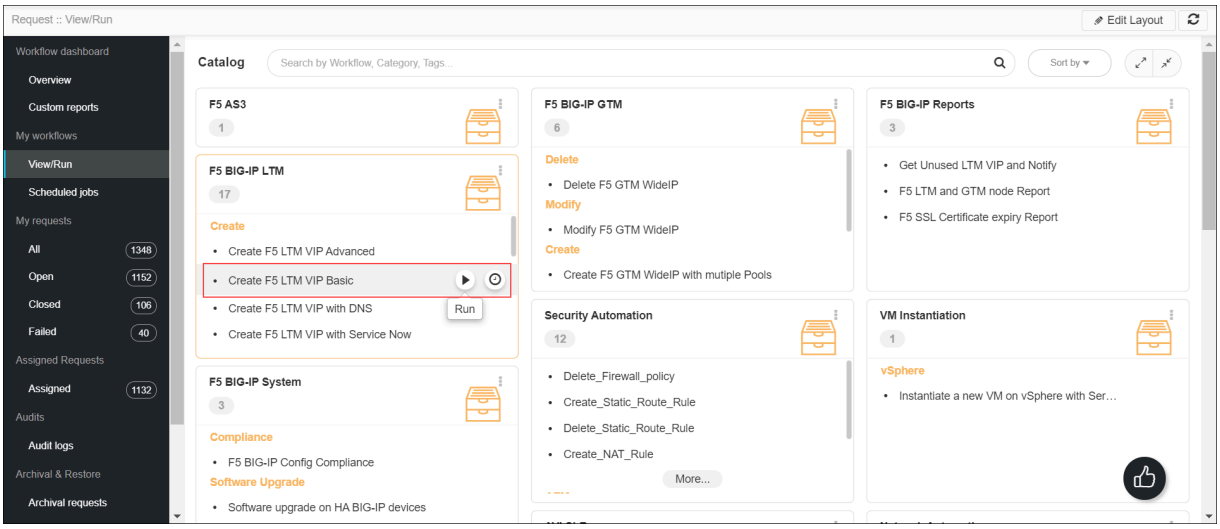
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1. Go to **Menu** > **Request** > **View/Run**.

   The Workflow Catalog page appears.

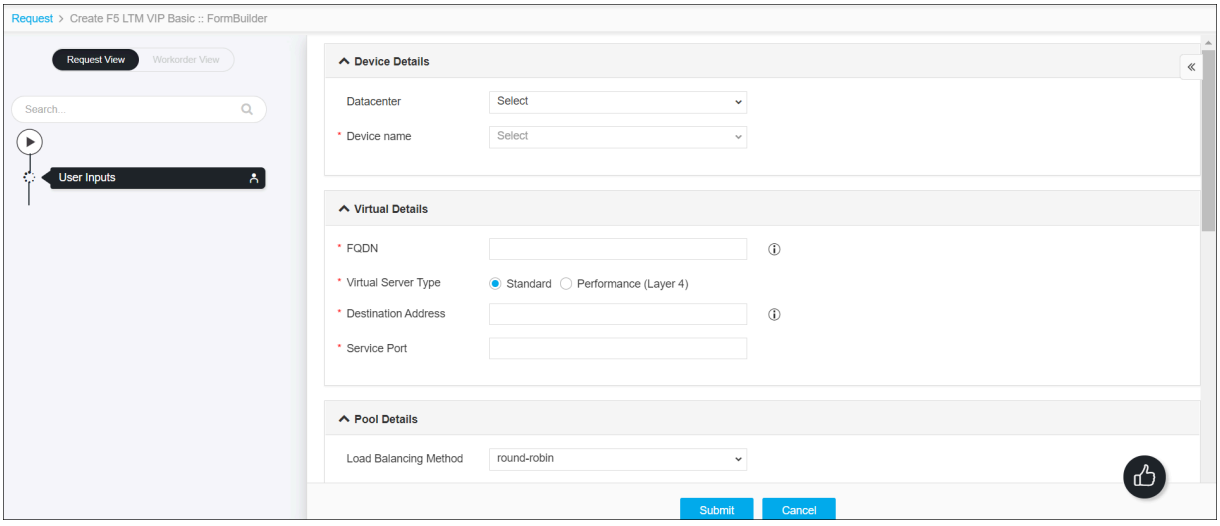
2. In the Workflow Catalog page, hover over the **Create F5 LTM VIP – Basic** workflow.

   The Run and Schedule buttons are shown.



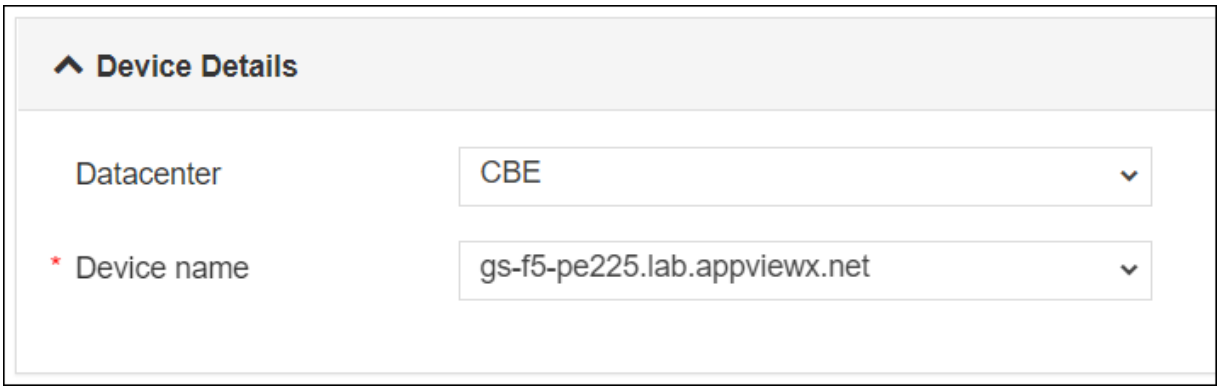
3. Click the Run  button.

   The Form Input page opens:



4. Enter or select the field information in the **Device Info** section of Form Input.

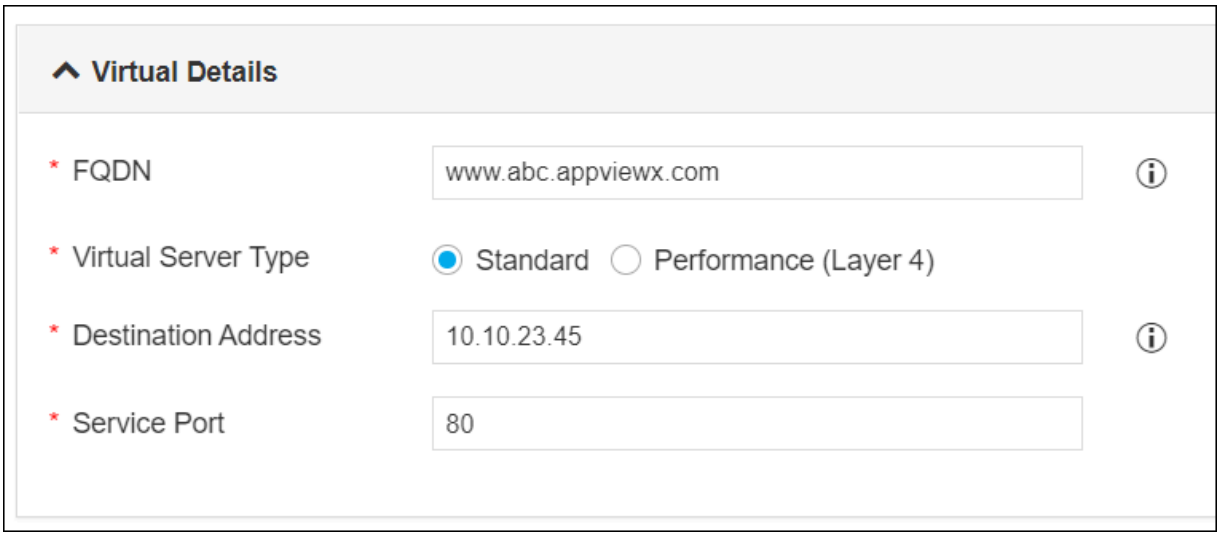
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5. The following table provides the field description for the **Device Info** section of Form Input:

Field	Description
*Datacenter	Displays the list of datacenters of the devices, which are created in the Device Inventory. Select the datacenter of a device from the drop-down option for which this request is to be added. For the devices, which are created without a datacenter in the Device Inventory, select the datacenter as **None**.
*Device Name	Displays the list of devices associated with the selected datacenter. If the datacenter is selected as **None**, the devices that are created without datacenter details are listed. Select the desired device from the drop-down option.

6. Enter or select the field information in the **Virtual Details** section of Form Input.

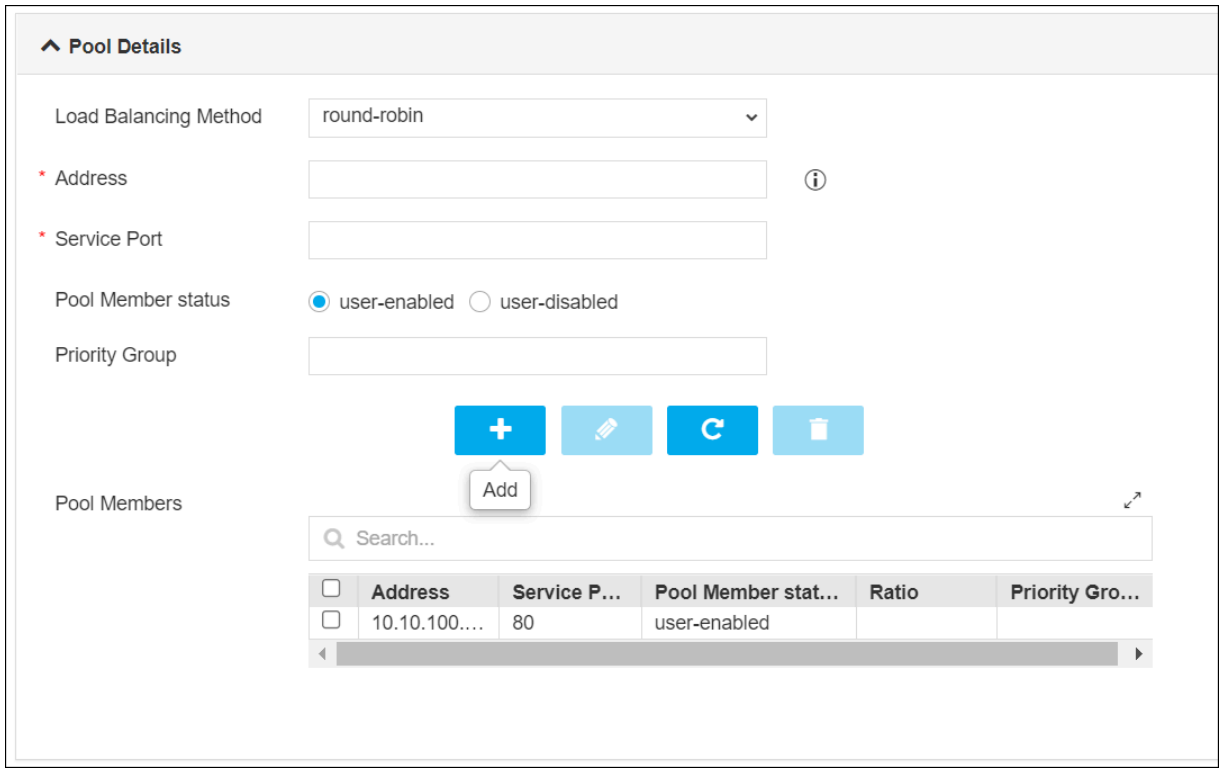


7. The following table provides the field description for the **Virtual Details** section of Form Input:

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Field	Description
*FQDN	Enter the FQDN of the virtual server.
*Virtual Server Type	The attributes of this virtual server. The default is **Standard**. • **Standard** - A virtual server that directs client traffic to a load balancing pool and is the most basic type of virtual server. When you first create the virtual server, you assign an existing default pool to it. From then on, the virtual server automatically directs traffic to that default pool. • **Performance (Layer 4)** - A virtual server that shares the same IP address as a node in an associated VLAN.
*Destination Address	Enter the destination IP address information for the virtual server.
*Service Port	Enter a service port.

8. Enter or select the field information in the **Pool Details** section of Form Input.



9. The following table provides the field description for the **Pool Details** section of Form Input:

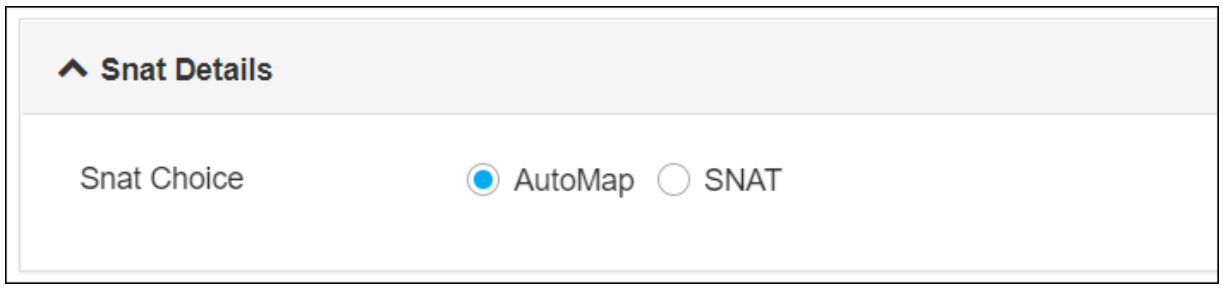
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Field	Description
Load Balancing Method	The load balancing method is used to select a pool in this VS. The default is round-robin. The methods are: • **round-robin** - the system selects the pools sequentially. • **least-connection-node** - The system passes a new connection to the node that has the least number of current connections out of all pools of which a node is a member. This method works best in environments where the servers or other equipment you are load balancing have similar capabilities. This is a dynamic load balancing method, distributing connections based on various aspects of real-time server performance analysis, such as the number of current connections per node, or the fastest node response time. • **least-connection-member** - The system passes a new connection to the node that has the least number of current connections in the pool. This method works best in environments where the servers or other equipment you are load balancing have similar capabilities. This is a dynamic load balancing method, distributing connections based on various aspects of real-time server performance analysis, such as the current number of connections per node or the fastest node response time. • **ratio-member** - The number of connections that each machine receives over time is proportionate to a ratio weight you define for each machine within the pool.
Address	Enter the IP address of the pool.
Service Port	Enter a service port.
Pool Member Status	The current state of the pool members. The statuses are: • **user-enabled** - when you select this option, the system sends traffic to this pool member regardless of the pool member's state. • **user-disabled** - when this option is selected, the pool member can handle only persistent or active connections.
Priority Group	A number representing the priority group for the pool members. To specify a priority, you must activate priority group usage when you create a new pool or when adding or removing pool members. When activated, the system load balances traffic according to the priority group number assigned to the pool member.

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Field	Description
Pool Members	Enter the IP address of the pool member. And then click the Add  button. Any number of pool numbers can be added to the pool. After adding the pool, you can manage them.

10. Enter or select the field information in the Snat Details section of Form Input.



11. The following table provides the field description for the Snat Details section of Form Input:

Field	Description
Snat Choice	Select the SNAT choice for any connections using this pool. The options are: • **AutoMap** -This option allows you to select a translation address from the available self IP address. • **SNAT** - This option allows you to select a floating self IP as a translation address.

12. Enter or select the field information in the Monitor Details section of Form Input.



13. The following table provides the field description for the Monitor Details section of Form Input:

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Field	Description
Monitor Type	Select the health monitors that are available to add for the pool: • HTTP • HTTPS • TCP • TCPHALFOPEN • Gatewaylcmp
Send String	The text string that the monitor sends to the target object. You must include \r\n at the end of a non-empty Send String. To retrieve a specific page from a website, specify a fully qualified path name.
Receive String	The regular expression representing the text string that the monitor looks for in the returned resource. The most common receive expressions contain a text string that is included in an HTML file on your site. The text string can be regular text, HTML tags, or image names, and the associated operation is not case-sensitive.

14. Click the **Submit** button.
    The Confirmation popup opens.

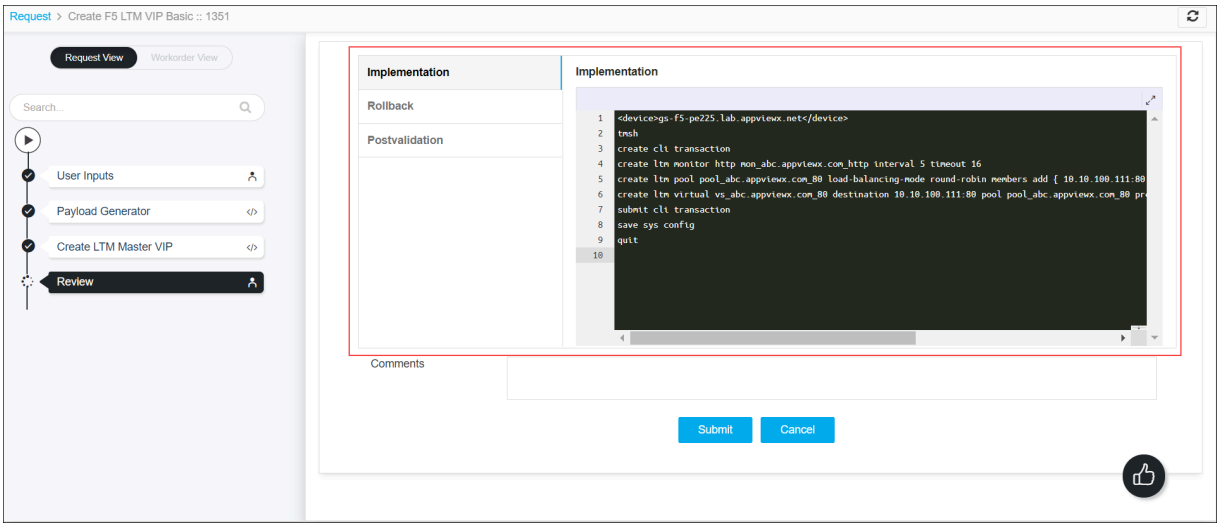
> **Note:**
> • If you want to save this form to edit it later, click the **Save Draft** button, and then click **Ok** in the Confirmation popup window. The form will be saved as Open request under **Request** > **My Request**.
> • If you want to cancel this form, click the **Cancel** button.

15. Click **Ok** to submit the form.
    The validation starts automatically and reaches the **Review** stage.

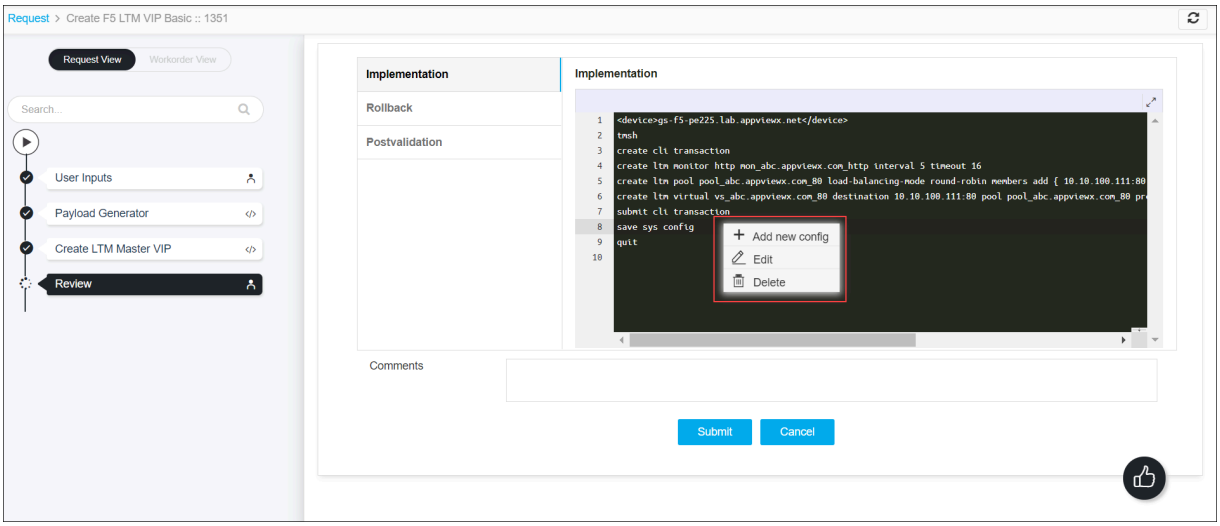
> **Note:**
> • If there is any failure at this stage, start a new request by providing the correct data.
> • Alternatively, select the failed request and clone it. Update the correct input data in the form input, and submit the workflow again. x

16. Review the input data under the **implementation**, **rollback**, and **postvalidation** tabs:

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17. (Optional) If you need to update any data at this stage, you can do so by clicking the right-side of the mouse on the data and selecting the desired option.

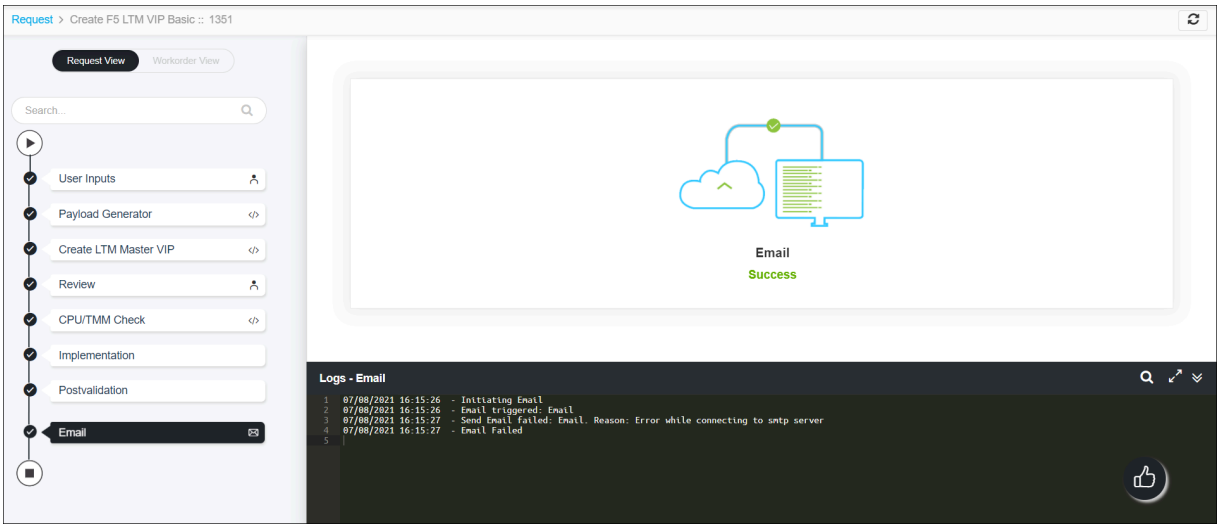


18. After the review, click the **Submit** button.
    The Confirmation popup opens.

> **Note:** Click Cancel to stop running the workflow creation.

19. Click **Ok** to continue the workflow creation.
    It takes a while to complete the request.
20. The workflow is created and the email is triggered to the configured email IDs.

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Note: The stages of the request are shown in the left-side of the screen. To view a particular stage of the request, click the respective stage.

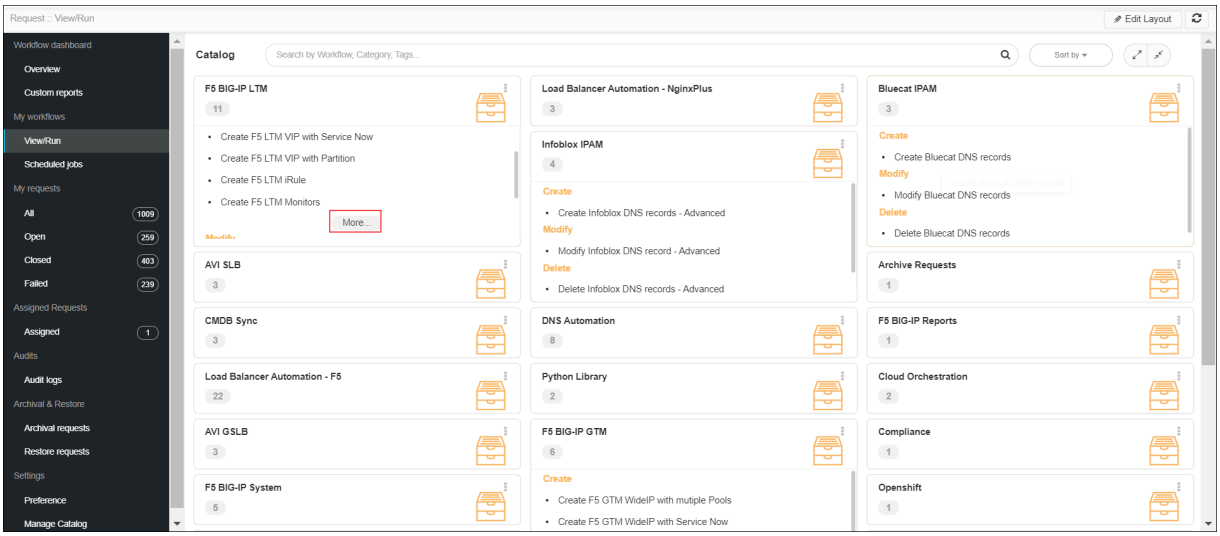
Create F5 LTM VIP

This workflow creates App Owner Centric VIP.

To run this workflow,

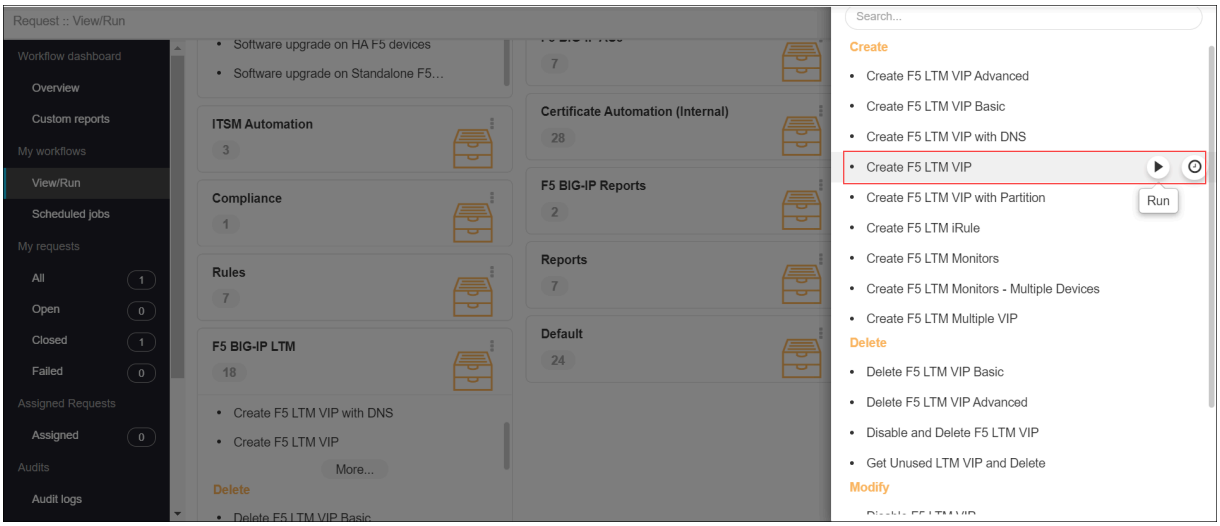
1. Go to ☰ **Menu** > **Request** > **View/Run**.
   The Workflow Catalog page appears.
2. In the Workflow Catalog page, click More under the category **F5 BiG-IP LTM** > **Create**.

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3. Hover over the **Create F5 LTM VIP** workflow.

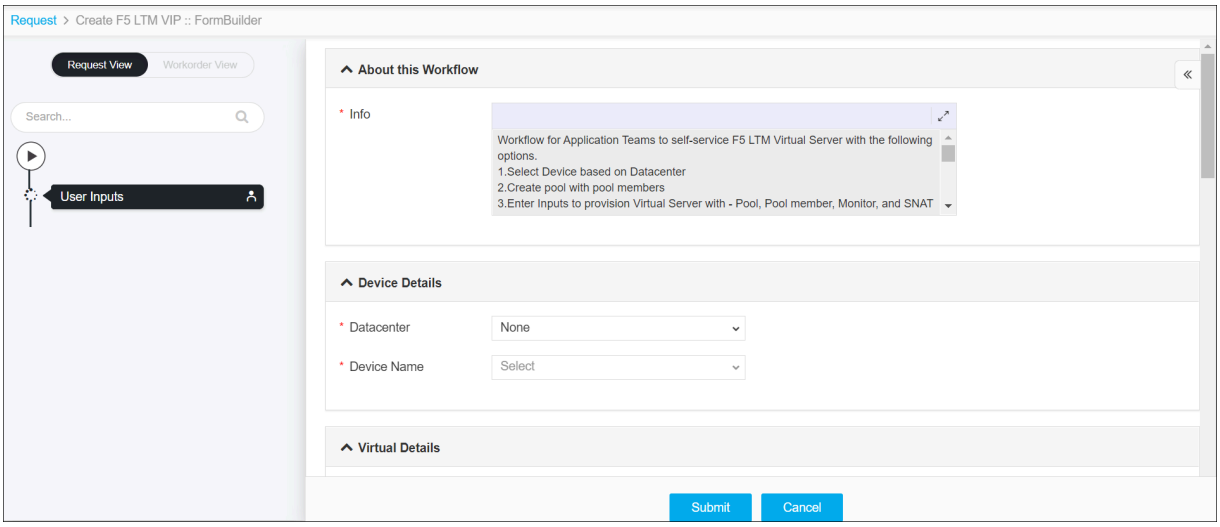
   The Run and Schedule buttons are shown.



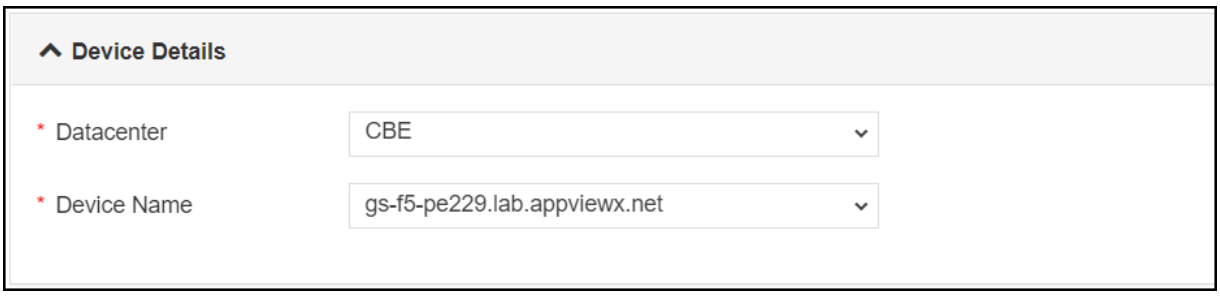
4. Click the Run  button.

   The Form Input page opens:

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5. Enter or select the field information in the **Device Details** section of Form Input.



6. The following table provides the field description for the **Device Details** section of Form Input:

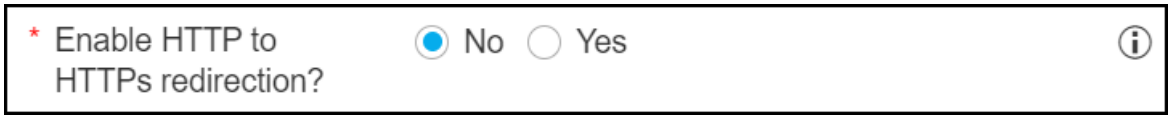
Field	Description
*Datacenter	Displays the list of datacenters of the devices, which are created in the Device Inventory. Select the datacenter of a device from the drop-down option for which this request is to be created. For the devices which are added without a datacenter in the Device Inventory, select the datacenter as **None**.
*Device Name	Displays the list of devices associated with the selected datacenter. If the datacenter is selected as **None**, the devices that are created without datacenter details are listed. Select the desired device from the drop-down option.

7. Enter or select the field information in the **Virtual Details** section of Form Input.

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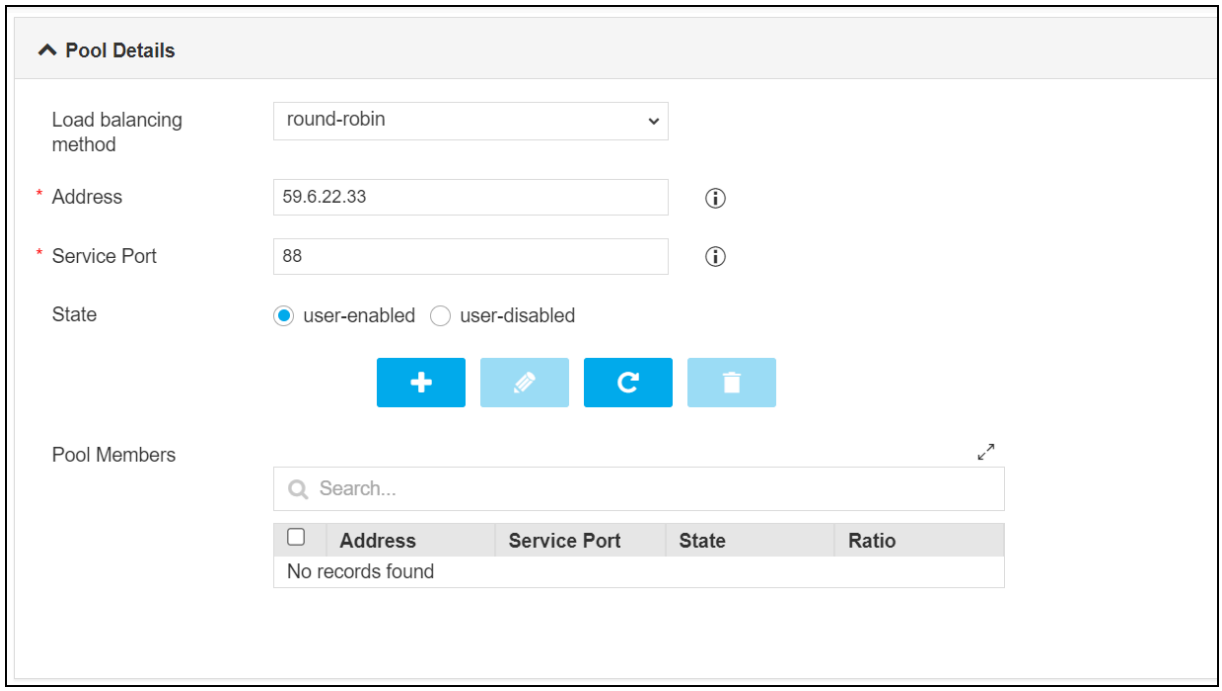


8. The following table provides the field description for the **Virtual Details** section of Form Input:

Field	Description
Application Name	Enter the FQDN of the virtual server.
Do you need to Enable SSL Certificates?	Select any of the following options to enable SSL certificates. The default option is No-InSecure Site. • **No-InSecure Site** • **Yes** - Only the servers will have SSL certificates  • **No** – Only Client will have an SSL Certificate. • **Yes** - Both Client and Servers will have SSL certificates.
Destination Address	Enter the destination IP address information for the virtual server.
Service Port	Enter a service port.

9. Enter or select the field information in the **Pool Details** section of Form Input.

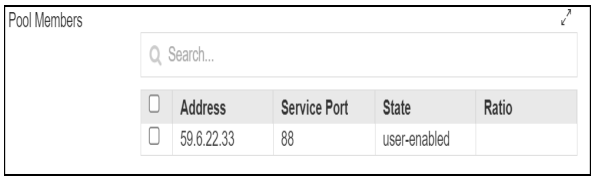
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10. The following table provides the field description for the **Pool Details** section of Form Input:

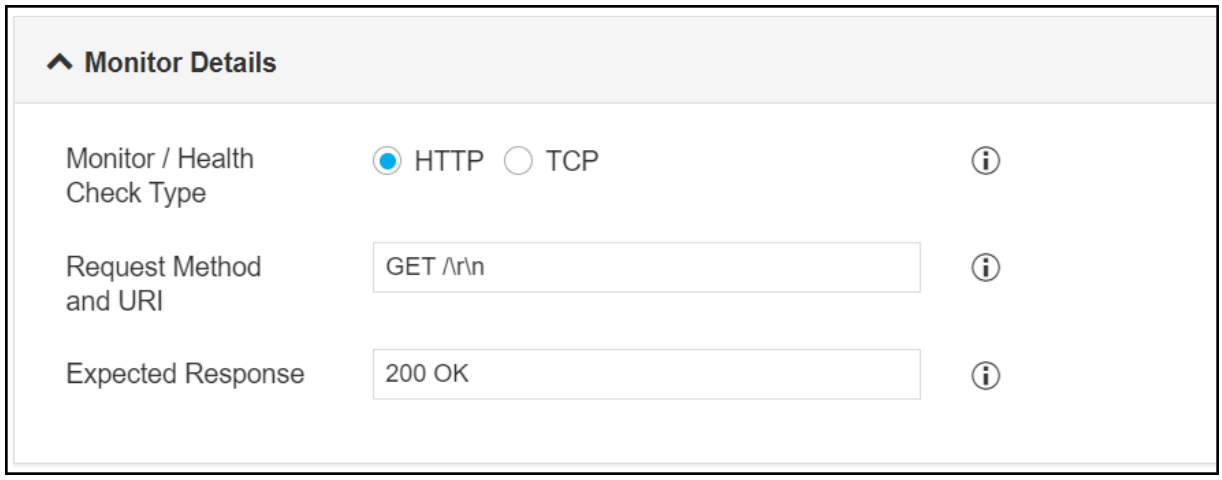
Field	Description
Load Balancing Method	The load balancing method used to select a pool in this WideIP. The default is round-robin.The methods are: • **round-robin** - the system selects the pools sequentially. • **least-connection-node** - The system passes a new connection to the node that has the least number of current connections out of all pools of which a node is a member. This method works best in environments where the servers or other equipment you are load balancing have similar capabilities. This is a dynamic load balancing method, distributing connections based on various aspects of real-time server performance analysis, such as the number of current connections per node, or the fastest node response time.

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	• **least-connection-member** - The system passes a new connection to the node that has the least number of current connections in the pool. This method works best in environments where the servers or other equipment you are load balancing have similar capabilities. This is a dynamic load balancing method, distributing connections based on various aspects of real-time server performance analysis, such as the current number of connections per node or the fastest node response time. • **ratio-member** - The number of connections that each machine receives over time is proportionate to a ratio weight you define for each machine within the pool.
Address	Enter the IP address of the pool.
Service Port	Enter a service port.
State	The current state of the pool members. The states are: • user-enabled - when you select this option, the system sends traffic to this pool member regardless of the pool member's state. • user-disabled - when this option is selected, the pool member can handle only persistent or active connections.
Pool Members	Enter the IP address of the pool member. And then click the Add  button. Any number of pool numbers can be added to the pool. After adding the pool, you can manage them. 

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11. Enter or select the field information in the **Monitor Details** section of Form Input.

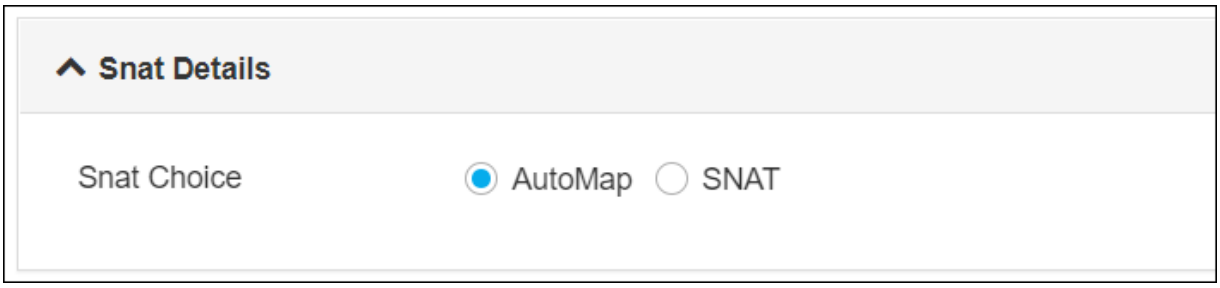


12. The following table provides the field description for the **Monitor Details** section of Form Input:

Field	Description
Monitor / Health Check Type	Select the health monitors that are available to add for the pool: • **HTTP** • **TCP**
Request Method and URI	The text string that the monitor sends to the target object. You must include \r\n at the end of a non-empty Send String. The default setting is GET /\r\n, which retrieves a default HTML file for a website. To retrieve a specific page from a website, specify a fully qualified path name
Expected Response	The regular expression representing the text string that the monitor looks for in the returned resource. The most common receive expressions contain a text string that is included in an HTML file on your site. The text string can be regular text, HTML tags, or image names, and the associated operation is not case-sensitive.

13. Enter or select the field information in the **Snat Pool Details** section of Form Input.

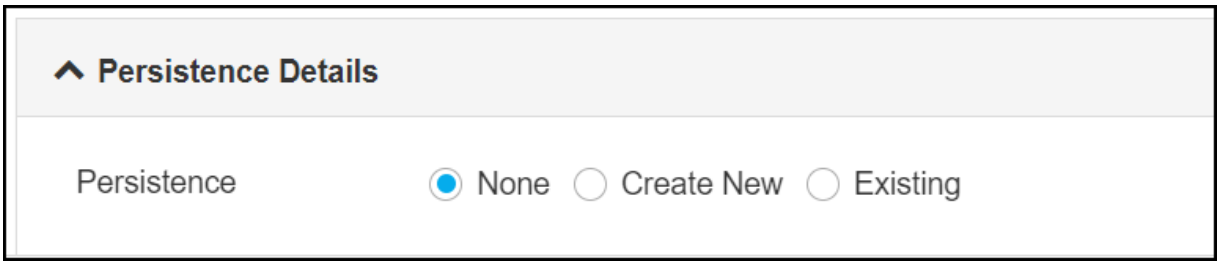
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14. The following table provides the field description for the **Snat Pool Details** section of Form Input:

Field	Description
Snat Choice	Select the SNAT choice for any connections using this pool. The options are: • **AutoMap** -This option allows you to select a translation address from the available self-IP address. • **SNAT** - This option allows you to select a floating self IP as a translation address. When this option is selected, the Snat Pool field appears. Select the Snat pool from the drop-down option: 

15. Enter or select the field information in the **Persistence Details** section of Form Input.



16. The following table provides the field description for the **Persistence Details** section of Form Input:

Field	Description

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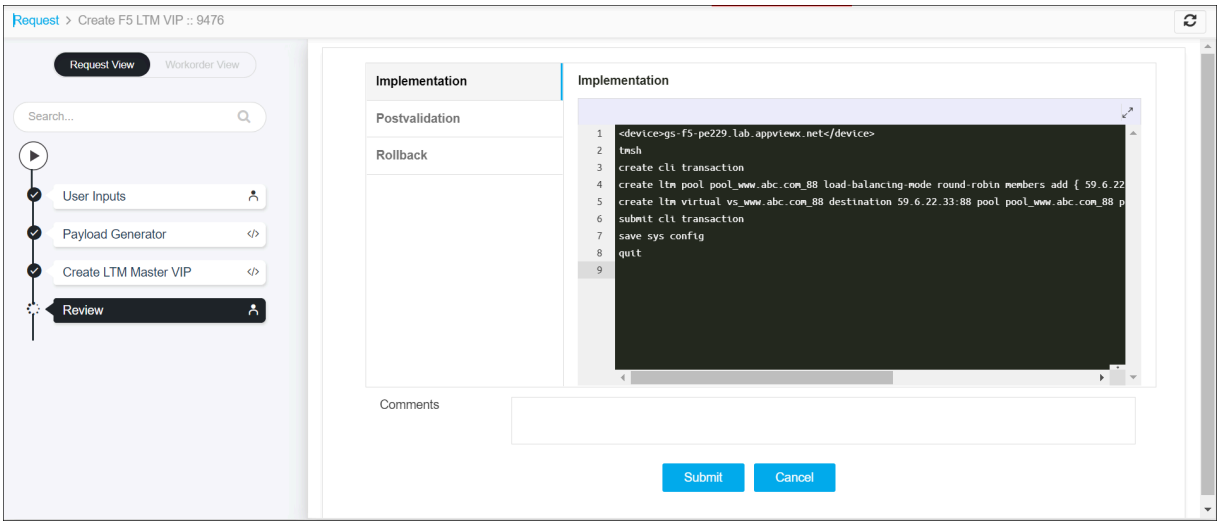
Field	Description
Persistence	This option allows you to use a pre-configured object that automatically enables persistence when you assign the profile to a virtual server. • **None** • **Create New** - create a new persistence by providing persistence details:  • **Existing** - select the existing persistence details: 

17. Click the **Submit** button.
18. The Confirmation popup opens.

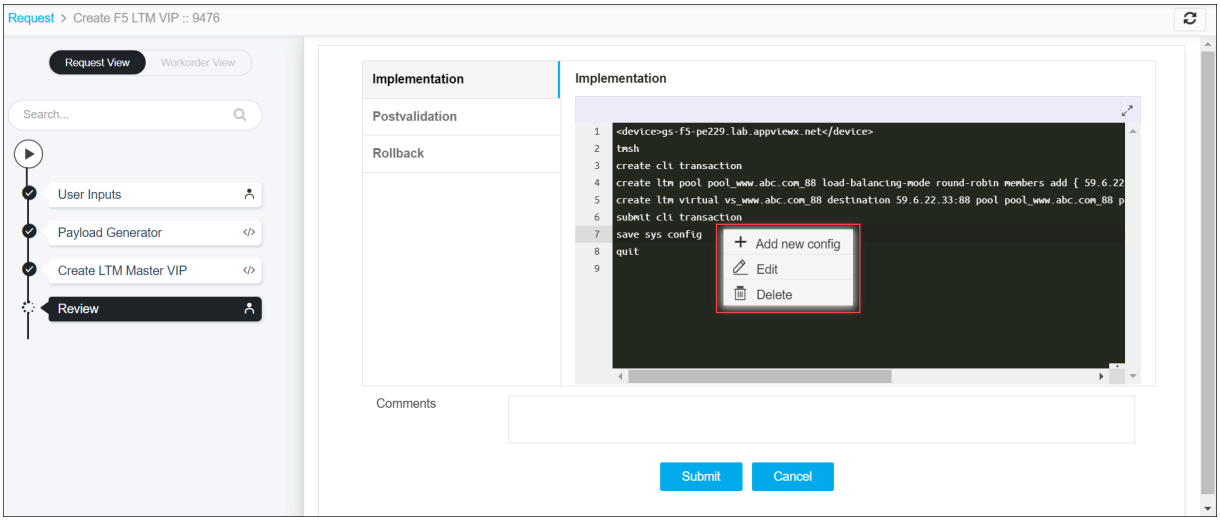
> **Note:**
> • If you want to save this form to edit it later, click the Save Draft button, and then click Ok in the Confirmation popup window. The form will be saved as Open request under Request > My Request.
> • If you want to cancel this form, click the Cancel button.

19. Click **Ok** to submit the form.
    The pre-validation starts automatically and reaches the **Review** stage.
20. Review the input data under the **implementation**, **rollback**, and **postvalidation** tabs:

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21. (Optional) If you need to change any data at this stage, you can update by clicking the right-side of the mouse on the data.

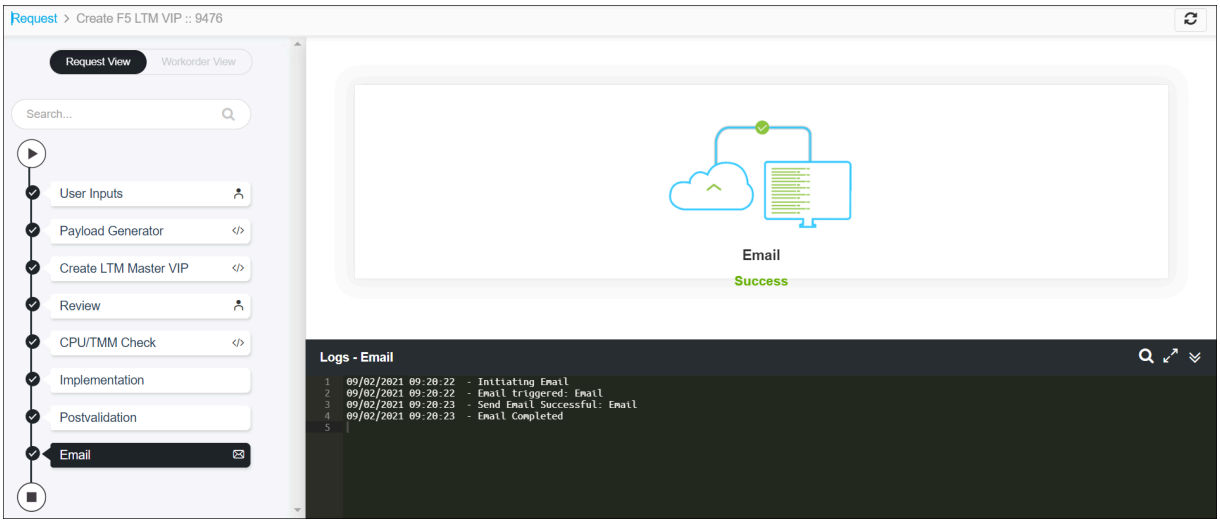


22. After the review, click the **Submit** button.
    The Confirmation popup opens.

> **Note:** To stop running the workflow creation, click **Cancel**.

23. Click **Ok** to continue the workflow creation.
    It takes a while to complete the post-validation.
24. After the successful post-validation, the workflow is created and the email triggered to the configured email IDs.

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Note: The validation stages are shown in the left side of the screen. To view any validation stage, click on the respective stage.

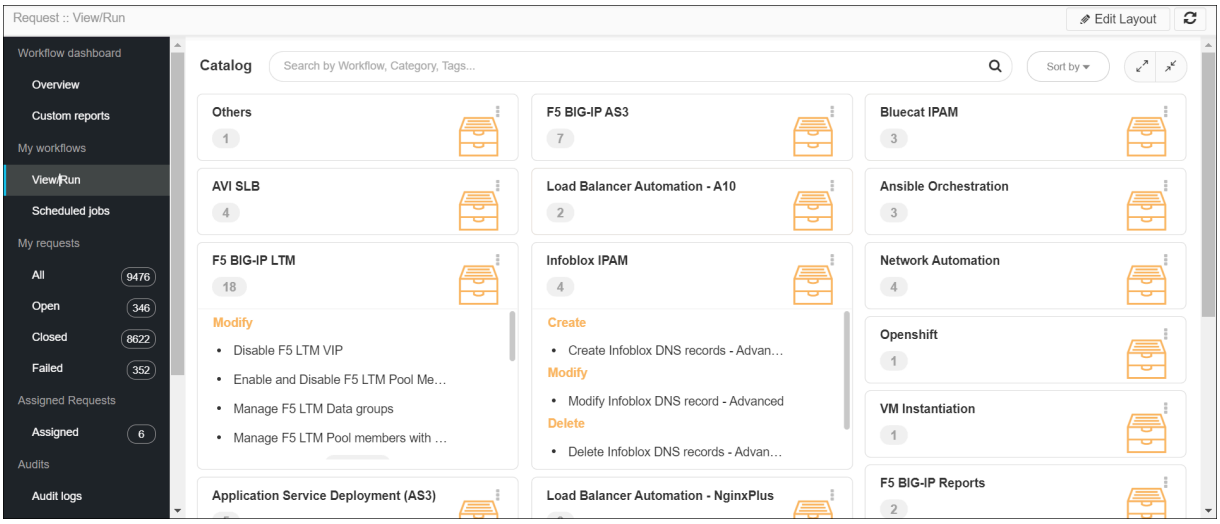
Create F5 LTM VIP with DNS

This workflow creates App Owner Centric VIP and integrates with DNS - Infoblox/Bluecat for A record creation.

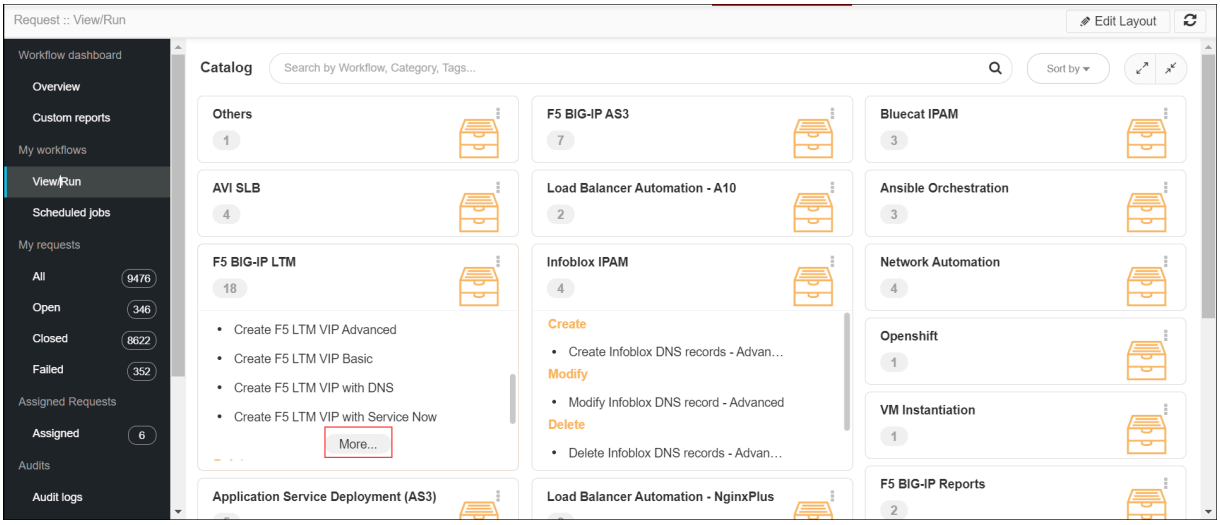
To run this workflow,

1. Go to **Menu** > **Request** > **View/Run**.
   The Workflow Catalog page appears.

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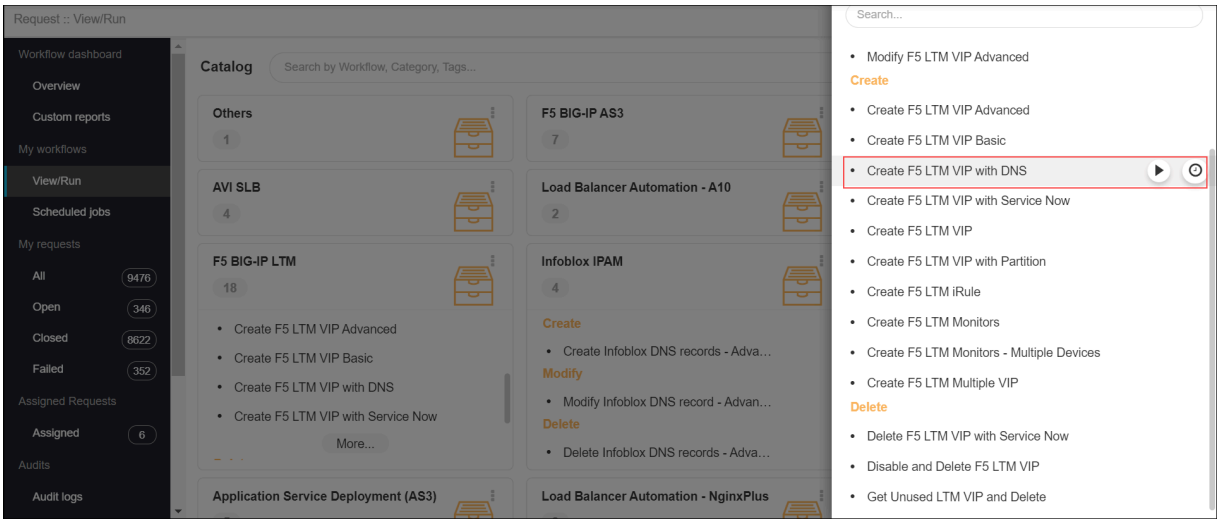
2. In the Workflow Catalog page, click **More** under the category **F5 BiG-IP LTM** > **Create**.



3. Hover over the **Create F5 LTM VIP with DNS** workflow.

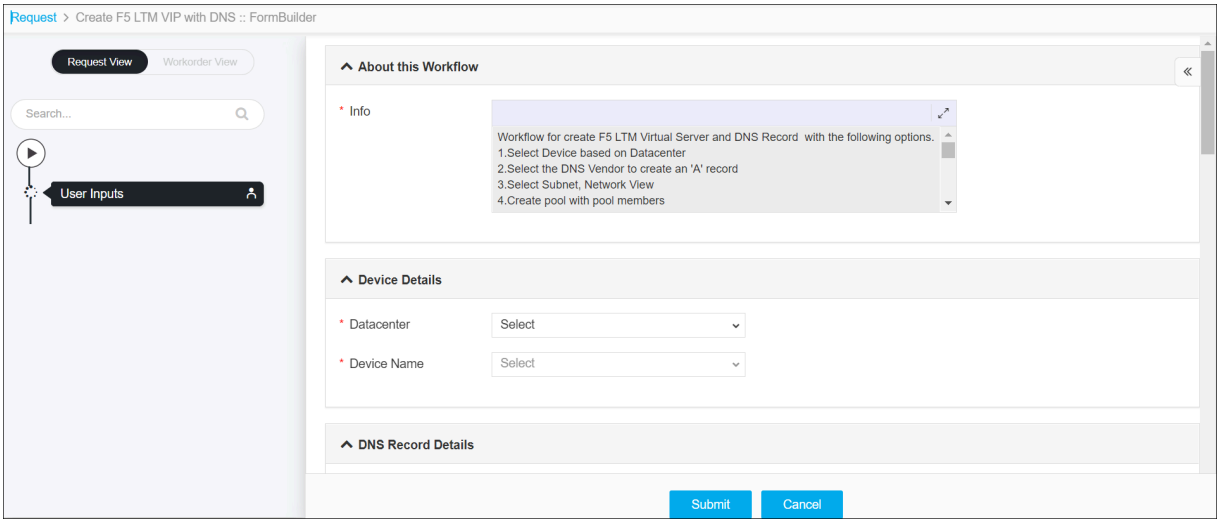
   The Run and Schedule buttons are shown.

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4. Click the Run  button.

   The Form Input page opens:



5. Enter or select the field information in the **Device Details** section of Form Input.

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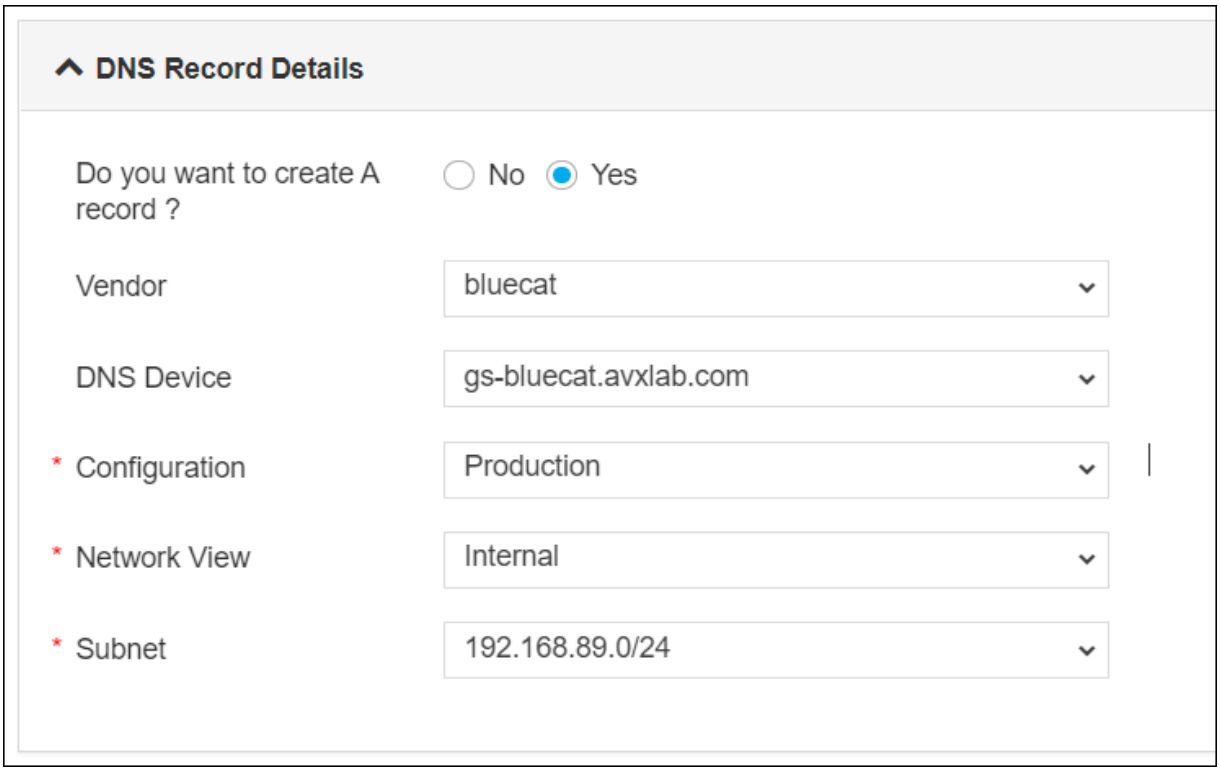


6. The following table provides the field description for the **Device Details** section of Form Input:

Field	Description
*Datacenter	Displays the list of datacenters of the devices, which are created in the Device Inventory. Select the datacenter of a device from the drop-down option for which this request is to be added. For the devices which are created without a datacenter in the Device Inventory, select the datacenter as **None**.
*Device Name	Displays the list of devices associated with the selected datacenter. If the datacenter is selected as **None**, the devices that are created without datacenter details are listed. Select the desired device from the drop-down option.

7. Enter or select the field information in the **DNS Record Details** section of Form Input.

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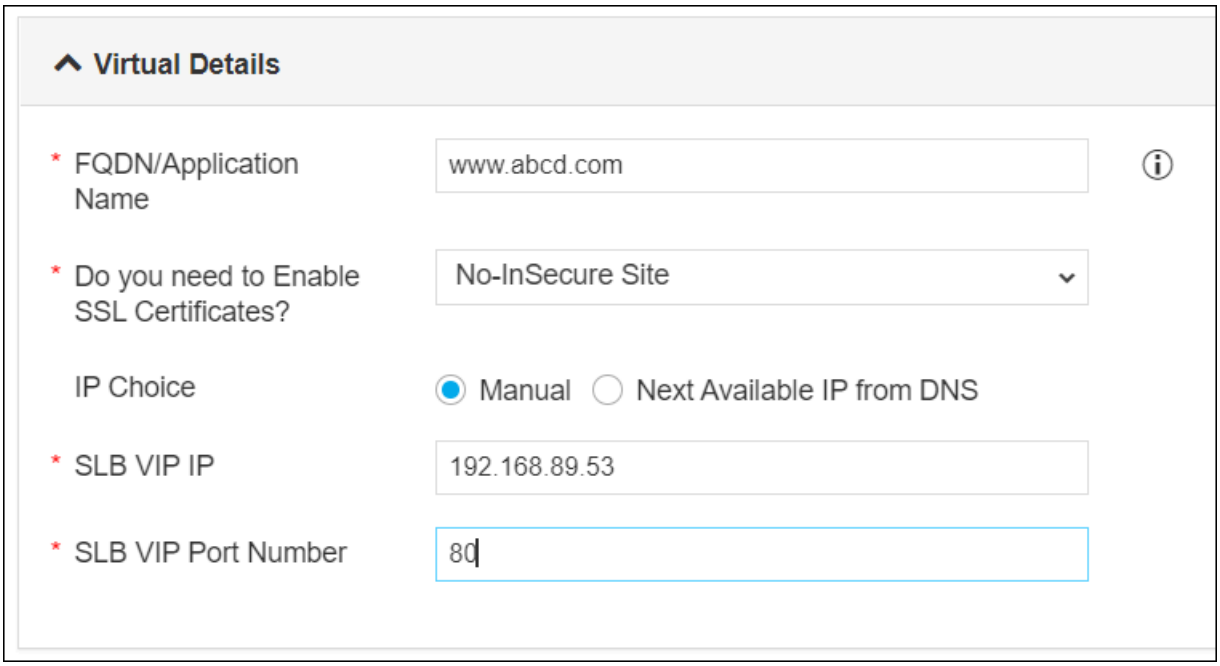


8. The following table provides the field description for the **DNS Record Details** section of Form Input:

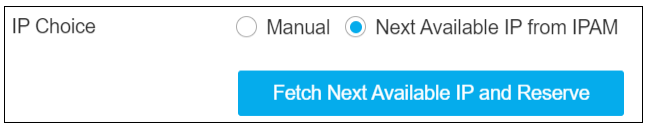
Field	Description
Do you want to create A record ?	The default option is **No**. To create A record in DNS select **Yes** and provide the **Vendor**, **DNS Device**, **Network View**, and **Subnet** deta 

9. Enter or select the field information in the **Virtual Details** section of Form Input.

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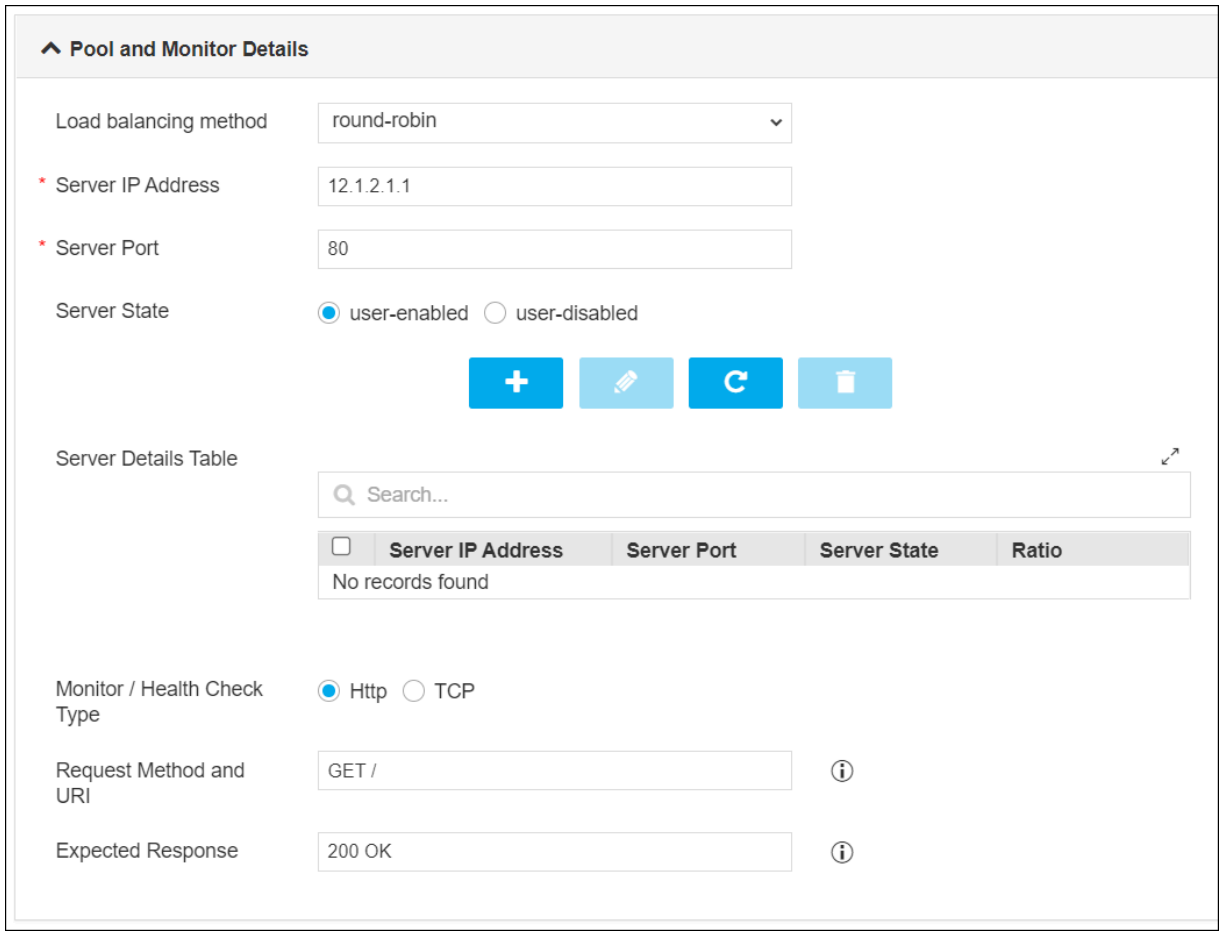
10. The following table provides the field description for the **Virtual Details** section of Form Input:

Field	Description
FQDN/ Application Name	Enter the FQDN or application name of the virtual server.
Do you need to Enable SSL Certificates?	Select any of the following options to enable SSL certificates. The default option is No-InSecure Site. • **No-InSecure Site** • **Yes** - Only the servers will have SSL certificates  • **No** – The only Client will have an SSL Certificate • **Yes** - Both Client and Servers will have SSL certificates
IP Choice	This option is applicable when a DNS record is to be created. Select any of the following IP choices: • **Manual** - allows to give the IP manually. • **Next Available IP from IPAM** - allows to fetch the next available IP from IPAM. To get the IP, click the 

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Field	Description
Destination Address	Enter the destination IP address information for the virtual server.
Service Port	Enter a service port.

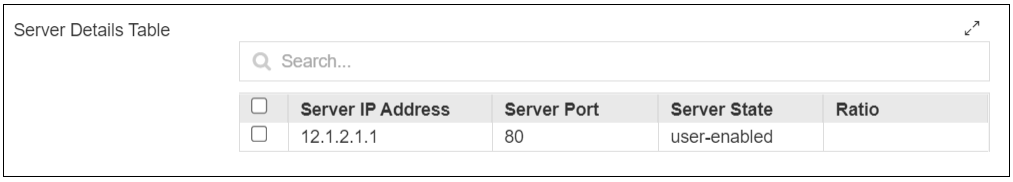
11. Enter or select the field information in the **Pool and Monitor Details** section of Form Input.



12. The following table provides the field description for the **Pool and Monitor Details** section of Form Input:

Field	Description
Load Balancing Method	The load balancing method is used to select a pool in this WideIP. The default is round-robin. The methods are:

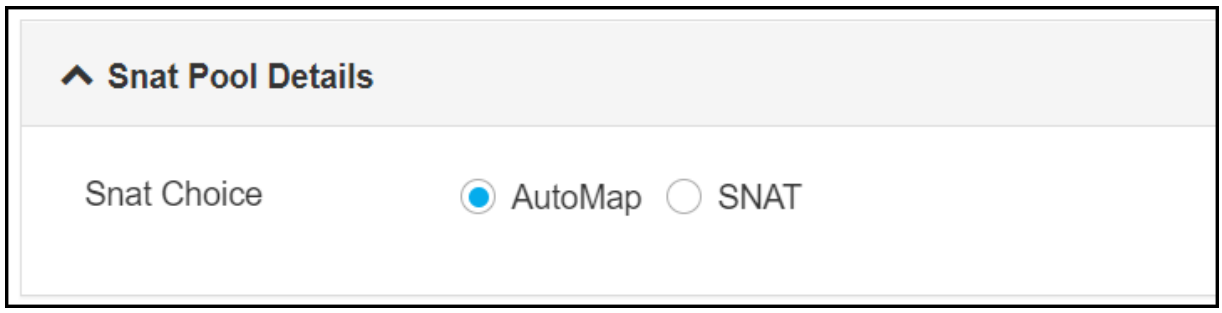
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Field	Description
	• round-robin - the system selects the pools sequentially. • least-connection-node - The system passes a new connection to the node that has the least number of current connections out of all pools of which a node is a member. This method works best in environments where the servers or other equipment you are load balancing have similar capabilities. This is a dynamic load balancing method, distributing connections based on various aspects of real-time server performance analysis, such as the number of current connections per node, or the fastest node response time. • least-connection-member - The system passes a new connection to the node that has the least number of current connections in the pool. This method works best in environments where the servers or other equipment you are load balancing have similar capabilities. This is a dynamic load balancing method, distributing connections based on various aspects of real-time server performance analysis, such as the current number of connections per node or the fastest node response time. • ratio-member - The number of connections that each machine receives over time is proportionate to a ratio weight you define for each machine within the pool.
Address	Enter the IP address of the pool.
Service Port	Enter a service port.
State	The current state of the pool members. The states are: • **user-enabled** - when you select this option, the system sends traffic to this pool member regardless of the pool member's state. • **user-disabled** - when this option is selected, the pool member can handle only persistent or active connections.
Pool Members	Enter the IP address of the pool member. And then click the Add  button. Any number of pool numbers can be added to the pool. After adding the pool, you can manage them. 
Monitor / Health	Select the health monitors that are available to add for the pool: • **HTTP** • **TCP**

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Field	Description
Check Type	
Request Method and URI	The text string that the monitor sends to the target object. You must include \r\n at the end of a non-empty Send String. The default setting is GET /\r\n, which retrieves a default HTML file for a website. To retrieve a specific page from a website, specify a fully qualified path name.
Expected Response	The regular expression representing the text string that the monitor looks for in the returned resource. The most common receive expressions contain a text string that is included in an HTML file on your site. The text string can be regular text, HTML tags, or image names, and the associated operation is not case-sensitive.

13. Enter or select the field information in the **Snat Pool Details** section of Form Input.



14. The following table provides the field description for the **Snat Pool Details** section of Form Input:

Field	Description
Snat Choice	Select the SNAT choice for any connections using this pool. The options are: • AutoMap -This option allows you to select a translation address from the available self-IP address. • SNAT - This option allows you to select a floating self IP as a translation address. When this option is selected, the Snat Pool field appears. Select the Snat pool from the drop-down option: 

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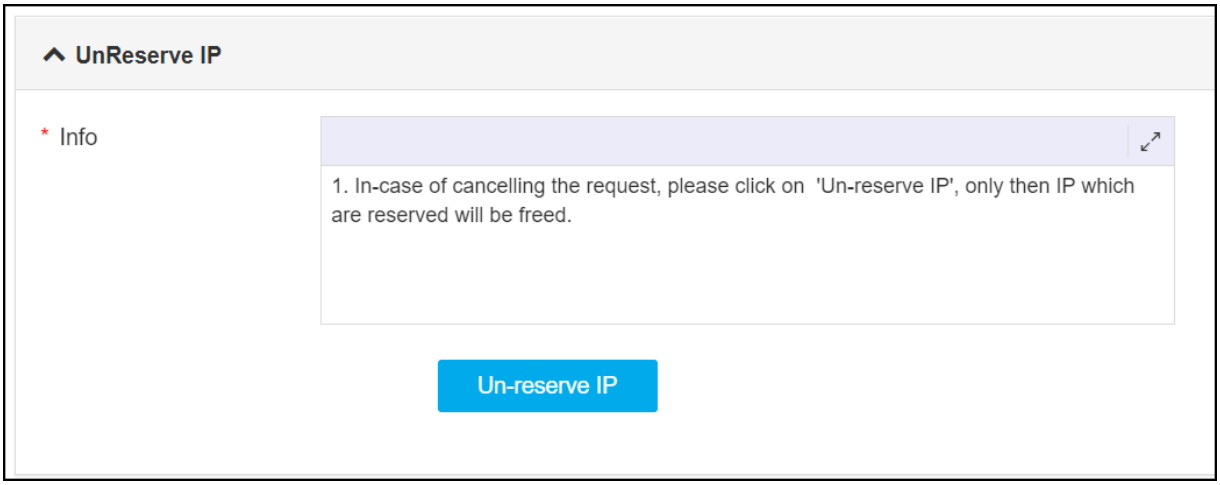
15. Enter or select the field information in the **Persistence Details** section of Form Input.



16. The following table provides the field description for the **Persistence Details** section of Form Input:

Field	Description
Persistence	This option allows you to use a pre-configured object that automatically enables persistence when you assign the profile to a virtual server. • **None** • **Create New** - create a new persistence by providing persistence details: * Persistence Type Select • **Existing** - select the existing persistence details: * Persistence Type Select * Select Persistence Select

17. For any reason, if you can cancel the request, make sure you unreserve the IP. To unreserve the IP, click the **UnReserve IP** button.



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18. Click the Submit button.

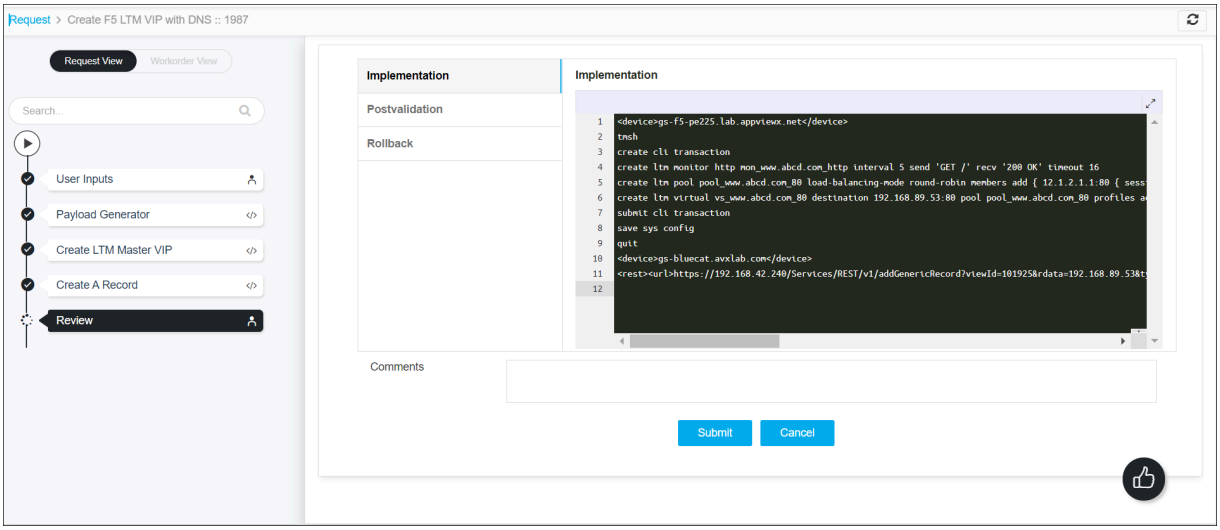
    The Confirmation popup opens.

> **Note:**
> - If you want to save this form to edit it later, click the **Save Draft** button, and then click **Ok** in the Confirmation popup window. The form will be saved as Open request under **Request** > **My Request**.
> - If you want to cancel this form, click the **Cancel** button.

19. Click **Ok** to submit the form.

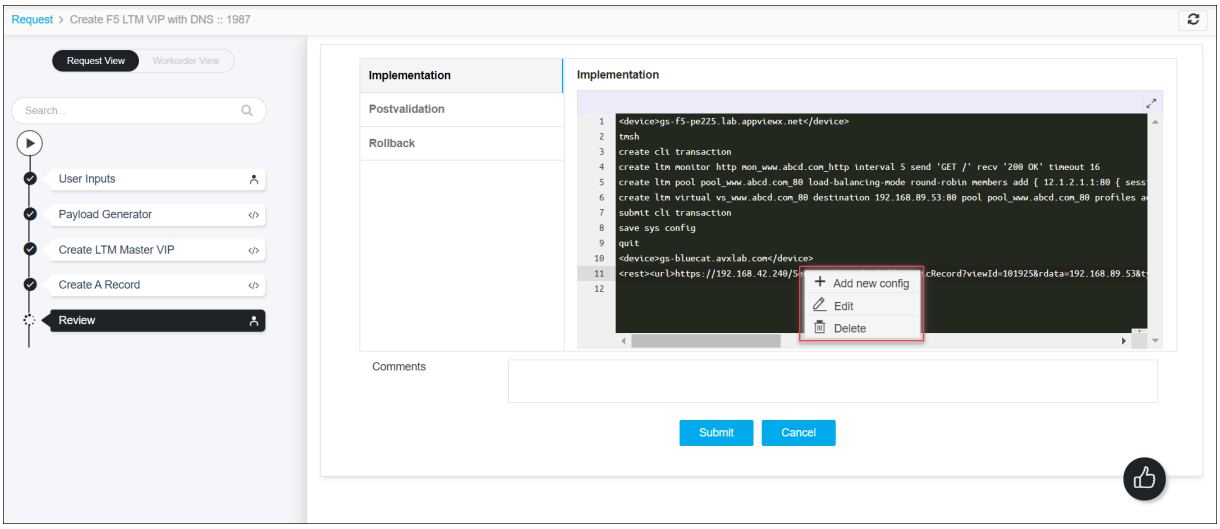
    The pre-validation starts automatically and reaches the **Review** stage.

20. Review the input data under the **implementation**, **rollback**, and **postvalidation** tabs:



21. (Optional) If you need to change any data at this stage, you can update by clicking the right-side of the mouse on the data.

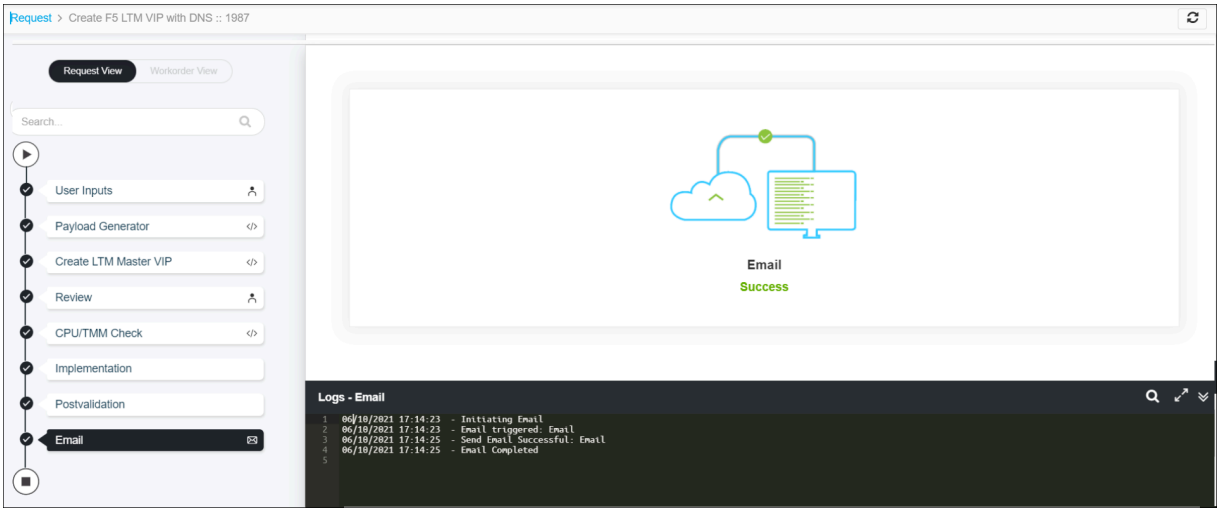
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22. After the review, click the **Submit** button.
    The Confirmation popup opens.

> **Note:** To stop running the workflow creation, click **Cancel**.

23. Click **Ok** to continue the workflow creation.
    It takes a while to complete the post-validation.
24. After the successful post-validation, the workflow is created and the email triggered to the configured email IDs.



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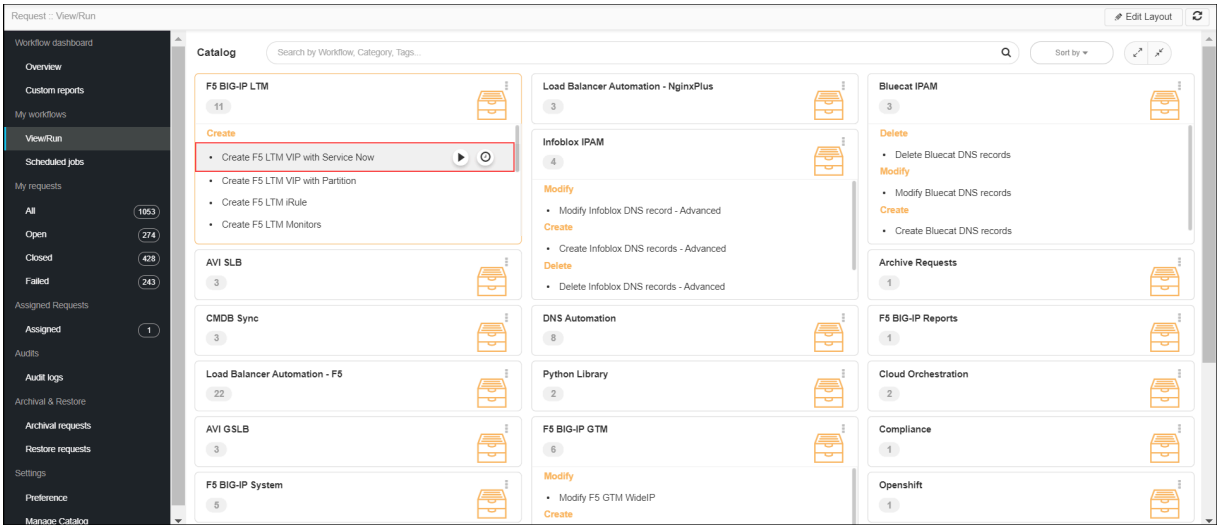
Note: The validation stages are shown in the left side of the screen. To view any validation stage, click on the respective stage.

Create F5 LTM VIP with Service Now

By running this workflow, you can create App Owner Centric VIP and integrate with ITSM – Service Now, where users can set Time Zone, Start time and End time for the ticket creation.

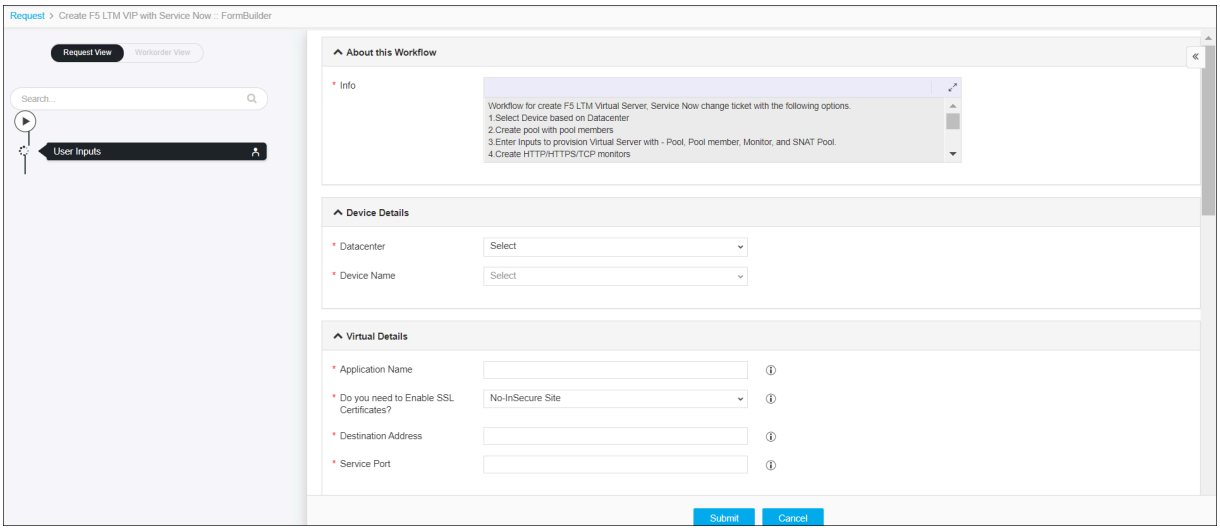
To run this workflow,

1. Go to **Menu** > **Request** > **View/Run**.
   The Workflow Catalog page appears.
2. In the Workflow Catalog page, hover over the **Create F5 LTM VIP with Service Now** workflow.
   The Run and Schedule buttons are shown.

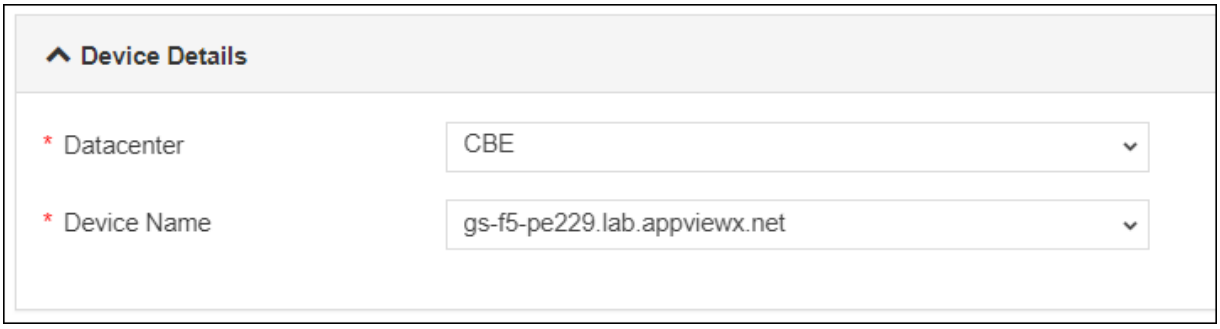


3. Click the Run button.
   The Form Input page opens:

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4. Enter or select the field information in the **Device Details** section of Form Input.

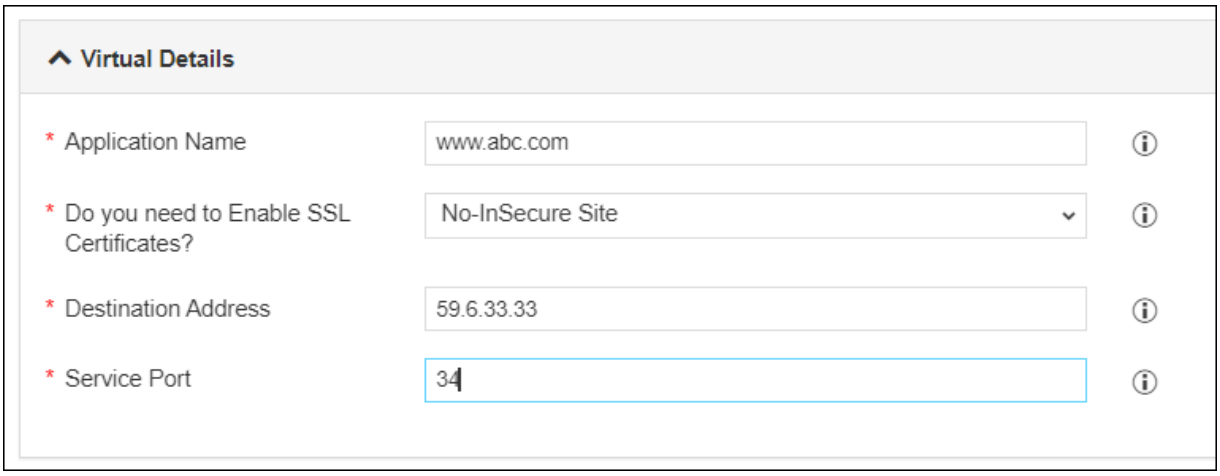


5. The following table provides the field description for the **Device Details** section of Form Input:

Field	Description
*Datacenter	Displays the list of datacenters of the devices, which are created in the Device Inventory. Select the datacenter of a device from the drop-down option for which this request is to be added. For the devices which are created without a datacenter in the Device Inventory, select the datacenter as **None**.
*Device Name	Displays the list of devices associated with the selected datacenter. If the datacenter is selected as **None**, the devices that are created without datacenter details are listed. Select the desired device from the drop-down option.

6. Enter or select the field information in the **Virtual Details** section of Form Input.

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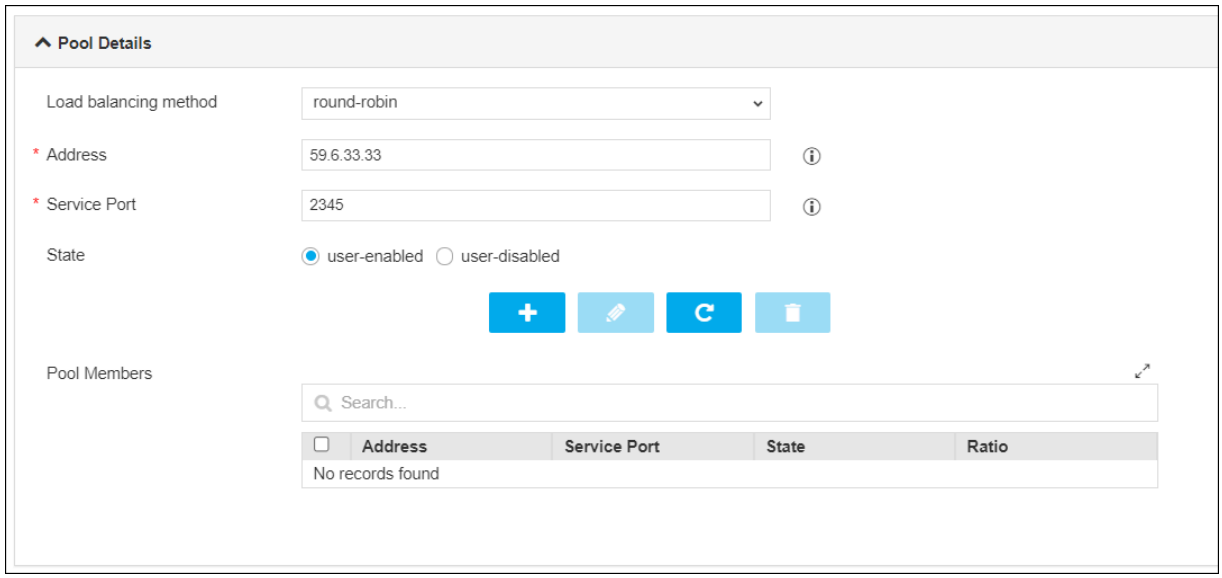


7. The following table provides the field description for the **Virtual Details** section of Form Input:

Field	Description
Application Name	Enter the FQDN of the virtual server.
Do you need to Enable SSL Certificates?	Select any of the following options to enable SSL certificates. The default option is No-InSecure Site. • **No-InSecure Site** • **Yes** - Only the servers will have SSL certificates  • **No** – The only Client will have an SSL Certificate • **Yes** - Both Client and Servers will have SSL certificates
Destination Address	Enter the destination IP address information for the virtual server.
Service Port	Enter a service port.

8. Enter or select the field information in the **Pool Details** section of Form Input.

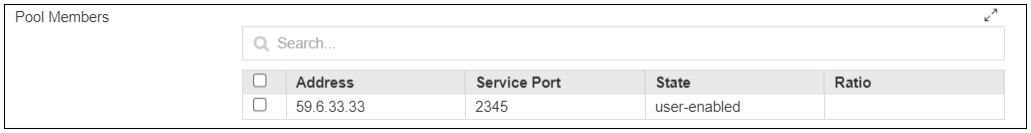
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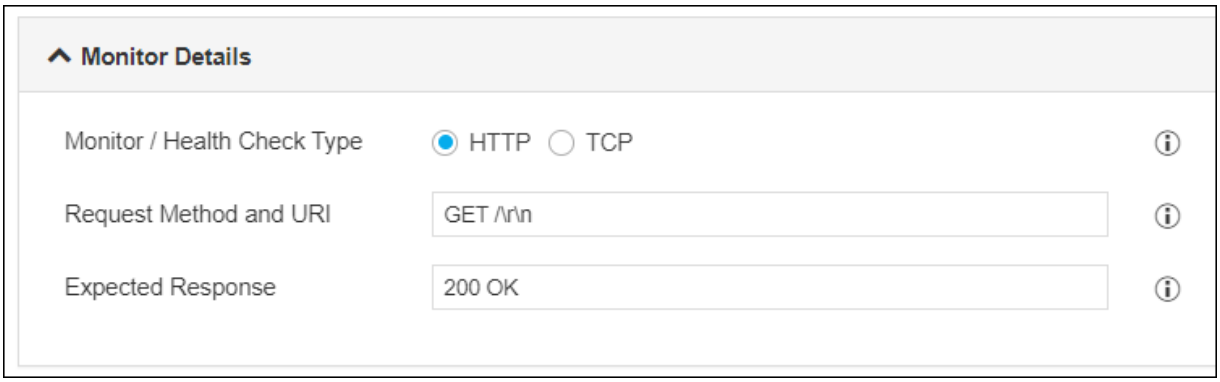
9. The following table provides the field description for the **Pool Details** section of Form Input:

Field	Description
Load Balancing Method	The load balancing method used to select a pool in this WideIP. The default is round-robin.The methods are: • **round-robin** - the system selects the pools sequentially. • **least-connection-node** - The system passes a new connection to the node that has the least number of current connections out of all pools of which a node is a member. This method works best in environments where the servers or other equipment you are load balancing have similar capabilities. This is a dynamic load balancing method, distributing connections based on various aspects of real-time server performance analysis, such as the number of current connections per node, or the fastest node response time. • **least-connection-member** - The system passes a new connection to the node that has the least number of current connections in the pool. This method works best in environments where the servers or other equipment you are load balancing have similar capabilities. This is a dynamic load balancing method, distributing connections based on various aspects of real-time server performance analysis, such as the current number of connections per node or the fastest node response time. • **ratio-member** - The number of connections that each machine receives over time is proportionate to a ratio weight you define for each machine within the pool.
*Address	Enter the IP address of the pool.

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Field	Description
*Service Port	Enter a service port.
State	The current state of the pool members. The states are: • user-enabled - when you select this option, the system sends traffic to this pool member regardless of the pool member's state. • user-disabled - when this option is selected, the pool member can handle only persistent or active connections.
Pool Members	Enter the IP address of the pool member. And then click the Add  button. Any number of pool numbers can be added to the pool. After adding the pool, you can manage them. 

10. Enter or select the field information in the **Monitor Details** section of Form Input.



11. The following table provides the field description for the **Monitor Details** section of Form Input:

Field	Description
Monitor / Health Check Type	Select the health monitors that are available to add for the pool: • **HTTP** • **TCP**

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Field	Description
Request Method and URI	The text string that the monitor sends to the target object. You must include \r\n at the end of a non-empty Send String. The default setting is GET /\r\n, which retrieves a default HTML file for a website. To retrieve a specific page from a website, specify a fully qualified path name.
Expected Response	The regular expression representing the text string that the monitor looks for in the returned resource. The most common receive expressions contain a text string that is included in an HTML file on your site. The text string can be regular text, HTML tags, or image names, and the associated operation is not case-sensitive.

12. Enter or select the field information in the **Snat Pool Details** section of Form Input.



13. The following table provides the field description for the **Snat Pool Details** section of Form Input:

Field	Description
Snat Choice	Select the SNAT choice for any connections using this pool. The options are: • AutoMap -This option allows you to select a translation address from the available self-IP address. • SNAT - This option allows you to select a floating self IP as a translation address. When this option is selected, the Snat Pool field appears. Select the Snat pool from the drop-down option: 

14. Enter or select the field information in the **Persistence Details** section of Form Input.

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15. The following table provides the field description for the **Persistence Details** section of Form Input:

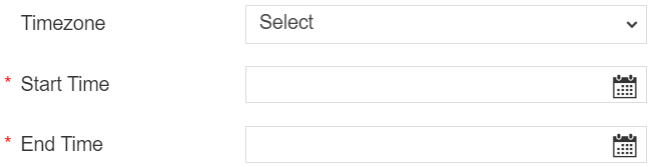
Field	Description
Persistence	This option allows you to use a pre-configured object that automatically enables persistence when you as • **None** • **Create New** - create a new persistence by providing persistence details:  • **Existing** - select the existing persistence details: 

16. Enter or select the field information in the **Change Management** section of Form Input.



17. The following table provides the field description for the **Change Management** section of Form Input:

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Field	Description
*Do you want to integrate ServiceNow?	By default, the No option is selected. If you want to integrate with ServiceNow, select Yes and provide th  • **Timezone** – select the timezone from the drop-down list. • ***Start Time** – select the start date and time from the calendar. • ***End Time** – select the end date and time from the calendar.

18. Click the **Submit** button.
    The Confirmation popup opens.

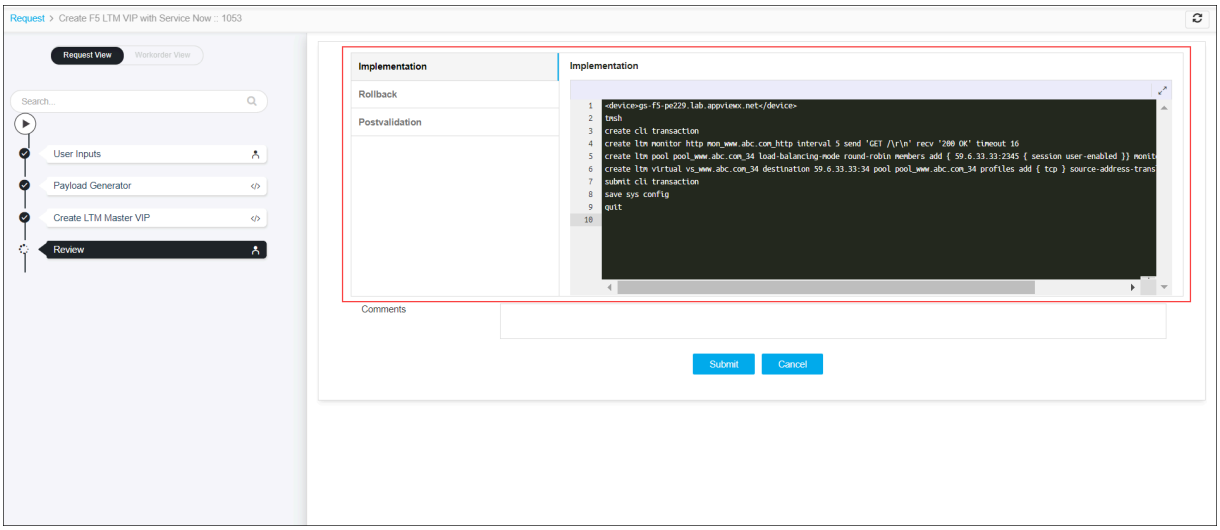
> **Note:**
> • If you want to save this form to edit it later, click the **Save Draft** button, and then click **Ok** in the Confirmation popup window. The form will be saved as Open request under **Request** > **My Request**.
> • If you want to cancel this form, click the **Cancel** button.

19. Click **Ok** to submit the form.
    The validation starts automatically and reaches the **Review** stage.

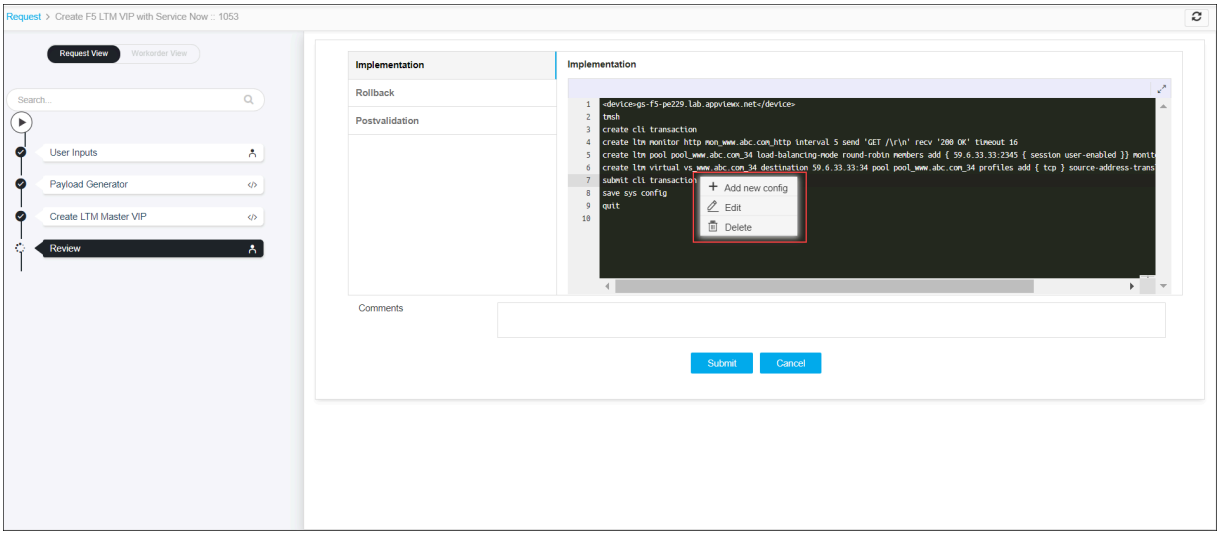
> **Note:**
> • If there is any failure at this stage, start a new request by providing the correct data.
> • Alternatively, select the failed request and clone it. Update the correct input data in the form input, and submit the workflow again.

20. Review the input data under the **implementation**, **rollback**, and **postvalidation** tabs:

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21. (Optional) If you need to update any data at this stage, you can do so by clicking the right side of the mouse on the data and selecting the desired option.

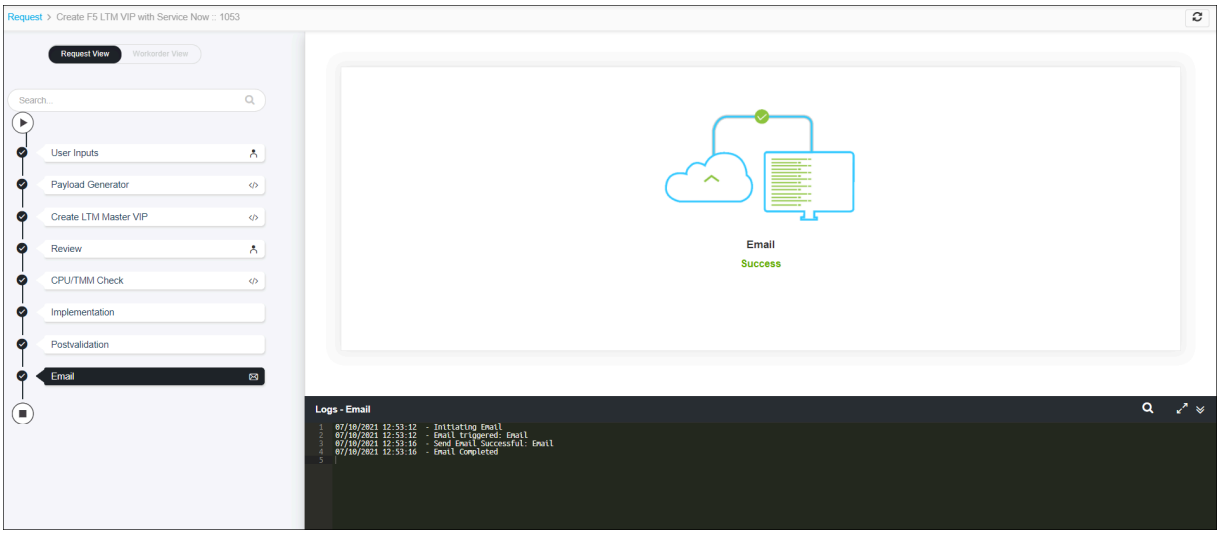


22. After the review, click the **Submit** button.
    The Confirmation popup opens.

> **Note:** To stop running the workflow creation, click **Cancel**.

23. Click **Ok** to continue the workflow creation.
    It takes a while to complete the request.
24. The workflow is created and the email triggered to the configured email IDs.

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Note: The stages of the request are shown in the left side of the screen. To view a particular stage of the request, click the respective stage.

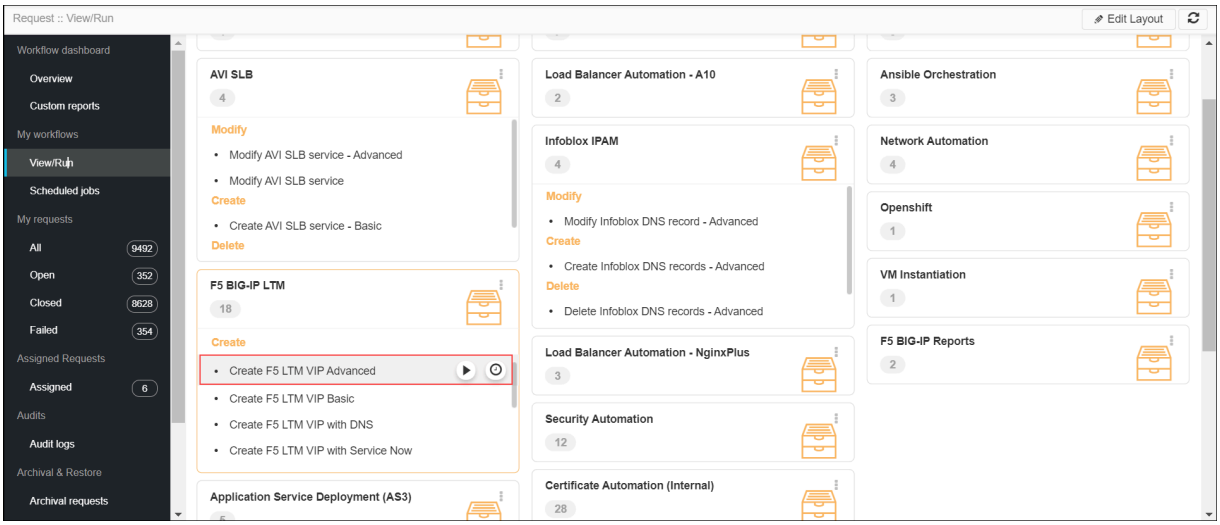
Create F5 LTM VIP Advanced

This workflow creates Extensive VIP with all basic objects in an F5 device and integrates with DNS - Infoblox/Bluecat for A record creation.

To run this workflow,

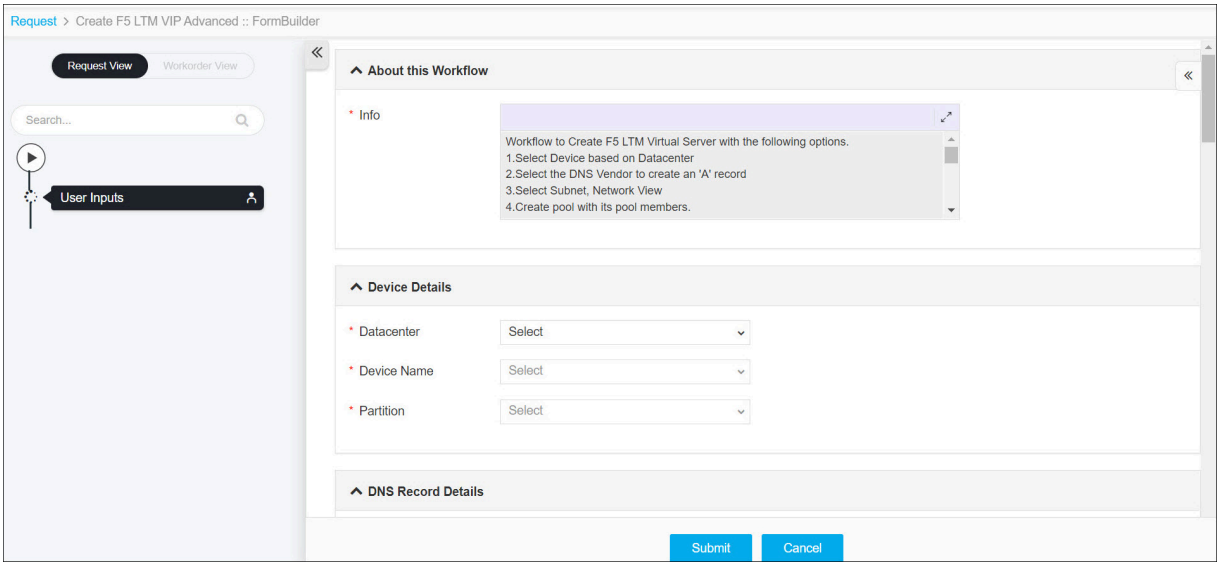
1. Go to ☰ **Menu** > **Request** > **View/Run**.
   The Workflow Catalog page appears.
2. In the Workflow Catalog page, hover over the Create F5 LTM VIP – Advanced workflow.
   The Run and Schedule buttons are shown.

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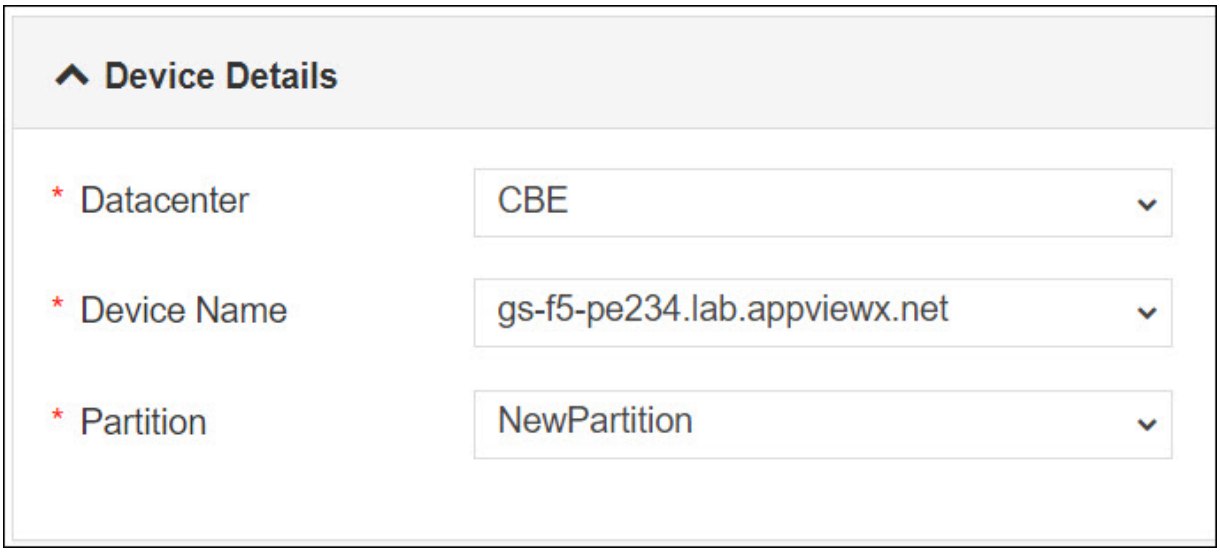
3. Click the Run  button.

   The Form Input page opens:



4. Enter or select the field information in the **Device Details** section of Form Input.

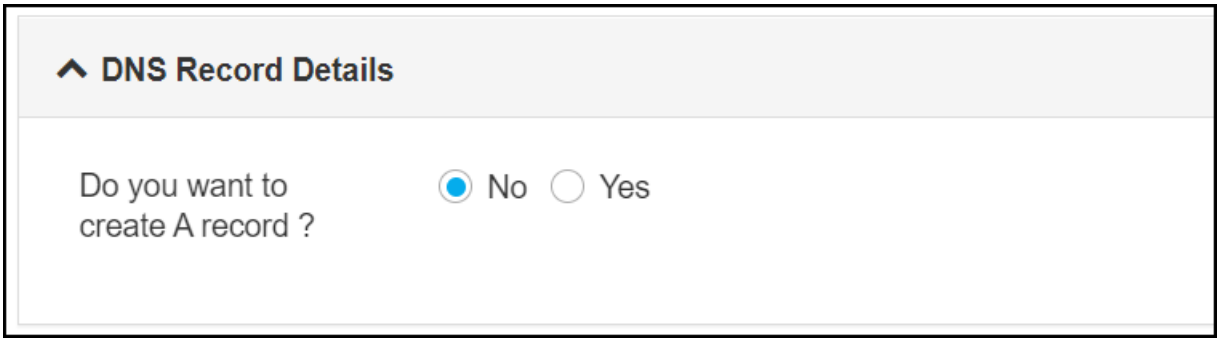
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5. The following table provides the field description for the **Device Details** section of Form Input:

Field	Description
*Datacenter	Displays the list of datacenters of the devices, which are created in the Device Inventory. Select the datacenter of a device from the drop-down option for which this request is to be created. For the devices which are created without a datacenter in the Device Inventory, select the datacenter as **None**.
*Device Name	Displays the list of devices associated with the selected datacenter. If the datacenter is selected as **None**, the devices that are created without datacenter details are listed. Select the desired device from the drop-down option.
*Partition	Partition in which objects will be created. If you want to create a new partition then click **Create New Partition** from the dropdown list and then provide a partition name.

6. Enter or select the field information in the **DNS Record Details** section of Form Input.

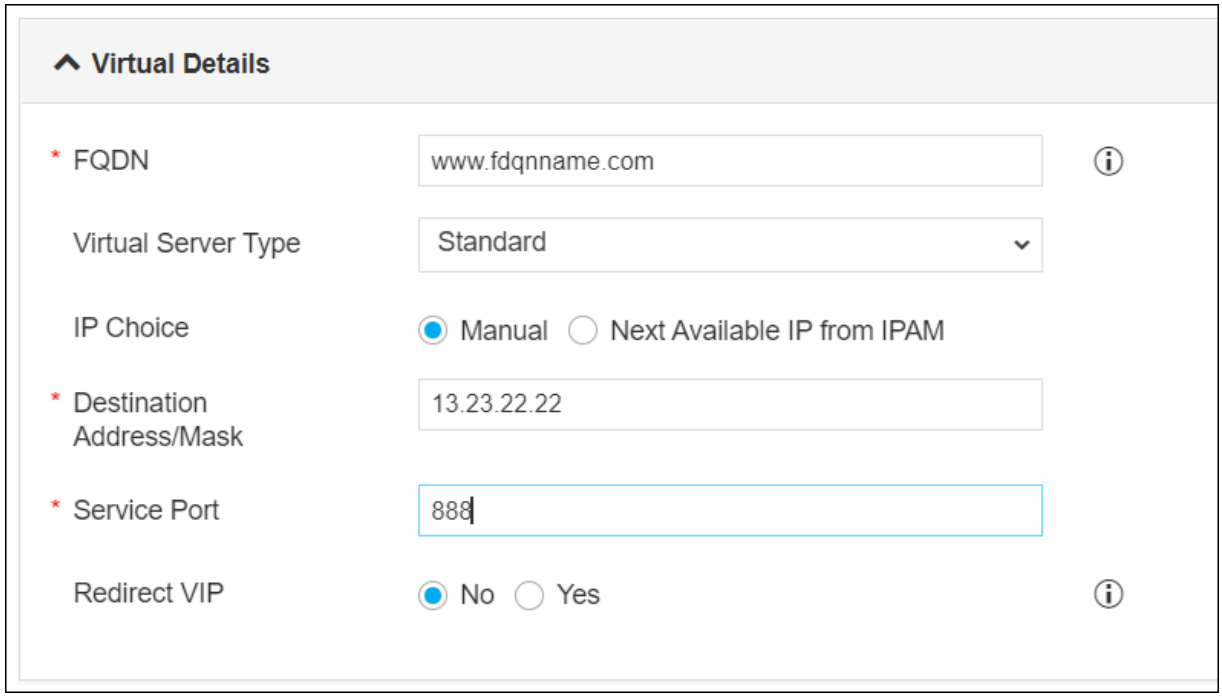


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7. The following table provides the field description for the **DNS Record Details** section of Form Input:

Field	Description
Do you want to create A record ?	The default option is **No**. To create A record in DNS select **Yes** and provide the **Vendor**, **DNS Device**, **Networ** 

8. Enter or select the field information in the **Virtual Details** section of Form Input.



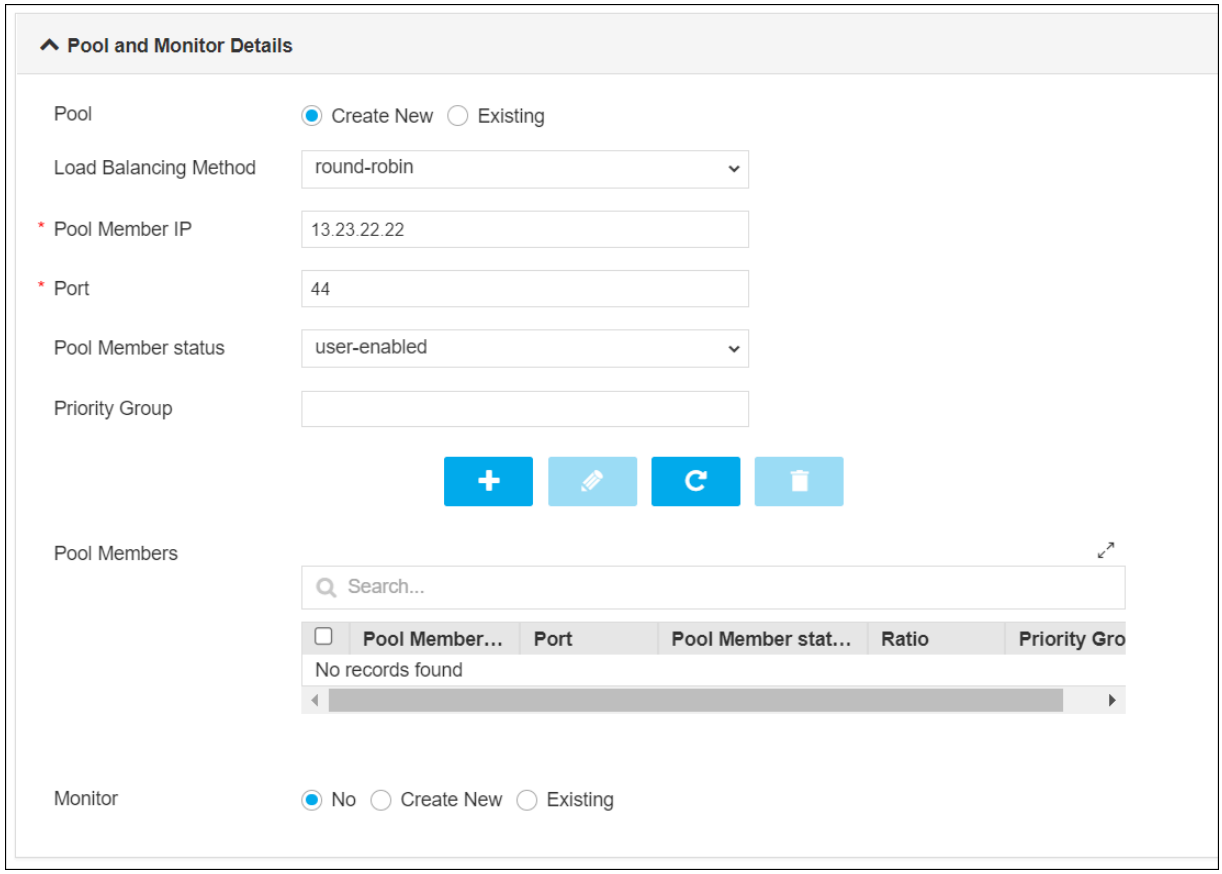
9. The following table provides the field description for the **Virtual Details** section of Form Input:

Field	Description
FQDN/ Application Name	Enter the FQDN or application name of the virtual server.

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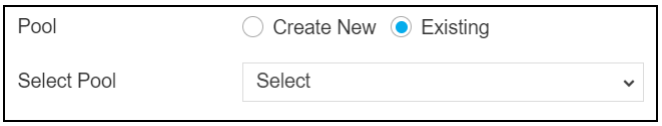
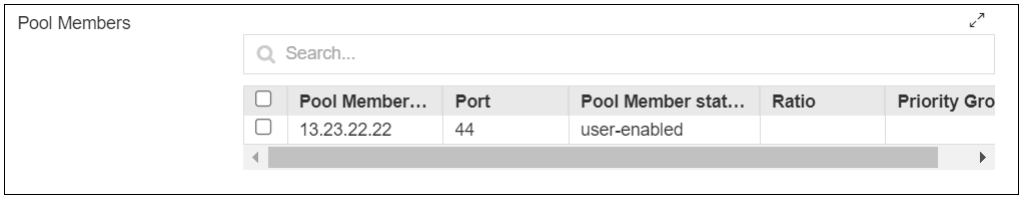
Field	Description
Virtual Server Type	Select the virtual server type.
Redirect VIP	An IP forwarding virtual server accepts traffic that matches the virtual server address and forwards it to the destination IP address that is specified in the request rather than load balancing the traffic to a pool. • **No** (default) • **Yes** - select Yes to redirect VIP.
Destination Address	Enter the destination IP address information for the virtual server.
Service Port	Enter a service port.

10. Enter or select the field information in the **Pool and Monitor Details** section of Form Input.



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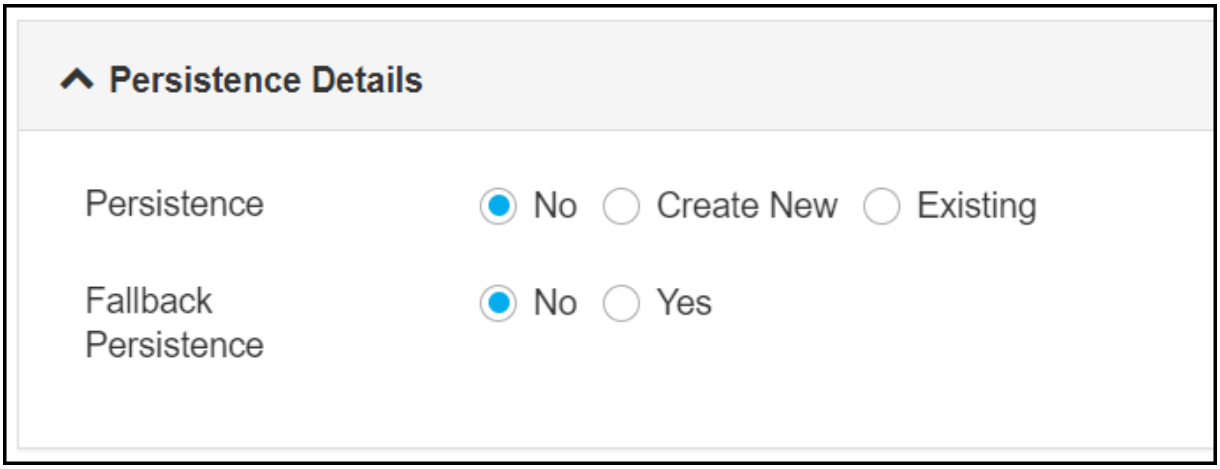
11. The following table provides the field description for the **Pool and Monitor Details** section of Form Input:

Field	
Pool	You can create a pool by providing the details for the pool or select an existing pool. Select the desired opti • **Create New** - this is the default option. When you select this option, you need to provide a Load Balancin • **Existing** - when you select this option, the Select Pool field appears to select the existing pool from the d 
Load Balancing Method	The load balancing method is used to select a pool in this WideIP. The default is a round-robin. The metho • **round-robin** - the system selects the pools sequentially. • **least-connection-node** - The system passes a new connection to the node that has the least number of • **least-connection-member** - The system passes a new connection to the node that has the least numbe • **ratio-member** - The number of connections that each machine receives over time is proportionate to a ra
Address	Enter the IP address of the pool.
Service Port	Enter a service port.
State	The current state of the pool members. The states are: • user-enabled - when you select this option, the system sends traffic to this pool member regardless of the • user-disabled - when this option is selected, the pool member can handle only persistent or active connec
Priority Group	A number representing the priority group for the pool members. To specify a priority, you must activate prio
Pool Members	Enter the IP address of the pool member. And then click the Add  button. Any number of pool numbers 
Monitor	An association between a health monitor and an entire pool. Select the desired Monitor option:

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Field	
	• **No** - this option does not allow you to monitor the pool. • **Create New** - select this option to create a monitor. Input the Type, Interval, Interval, Timeout, and Monito • **Existing** - select this option to choose the existing monitor option.

12. Enter or select the field information in the **Persistence Details** section of Form Input.



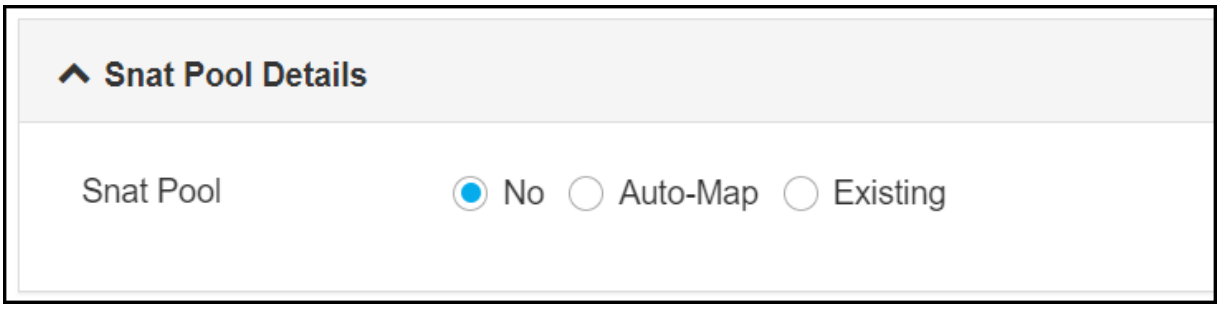
13. The following table provides the field description for the **Persistence Details** section of Form Input:

Field	Description
Persistence	This option allows you to use a pre-configured object that automatically enables persistence when you assign the profile to a virtual server. • **None** • **Create New** - create a new persistence by providing persistence details:  • **Existing** - select the existing persistence details: 
Fallback Persistence	It is a secondary persistence record for each connection. Select the desired following option:

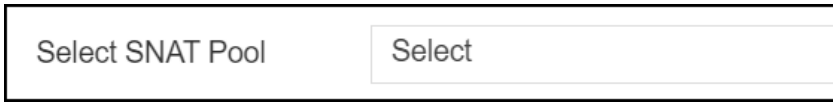
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Field	Description
	• **No** • **Yes**

14. Enter or select the field information in the **Snat Pool Details** section of Form Input.

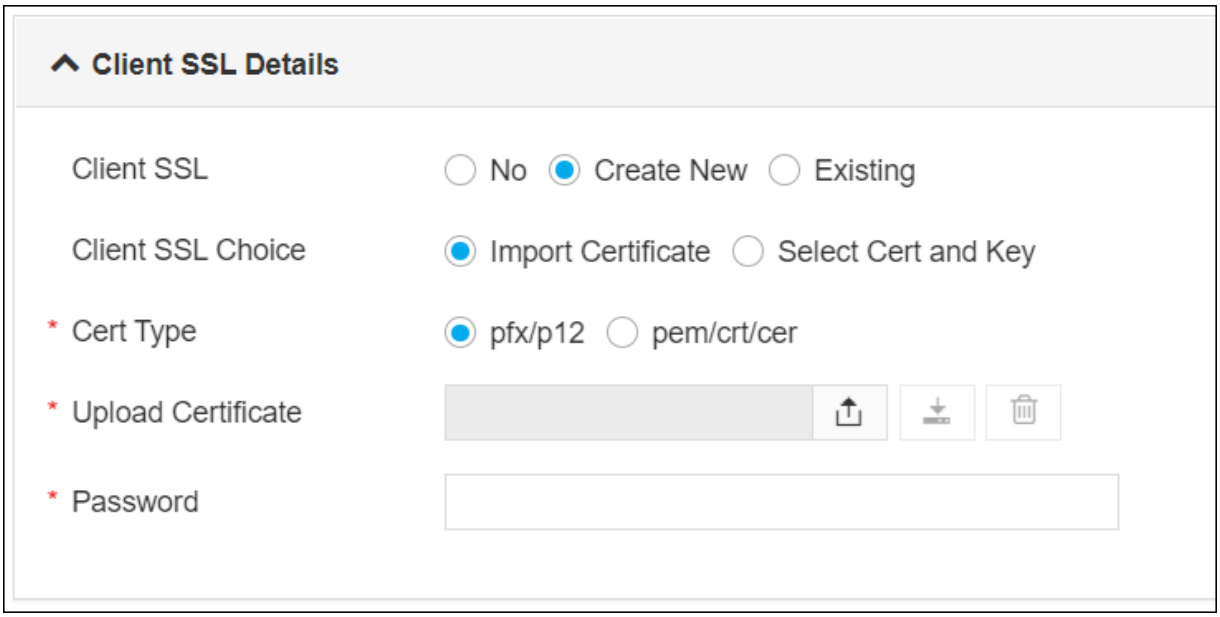


15. The following table provides the field description for the **Snat Pool Details** section of Form Input:

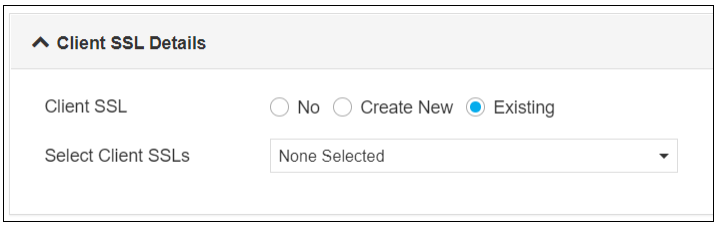
Field	Description
Snat Pool	Select the SNAT pool for any connections using this pool. The options ar • **Auto-Map**p -This option allows you to select a translation address from • **SNAT** - This option allows you to select a floating self IP as a translatio selected, the Snat Pool field appears. Select the Snat pool from the dr 

16. Enter or select the field information in the **Client SSL Details** section of Form Input.

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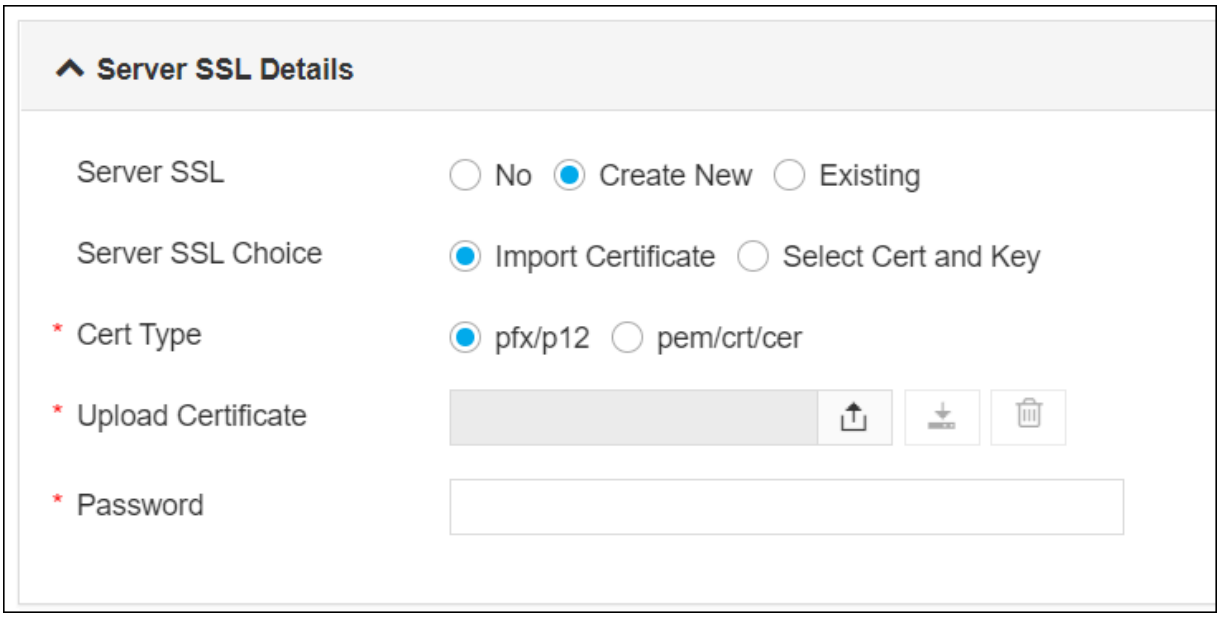


17. The following table provides the field description for the **Client SSL Details** section of Form Input:

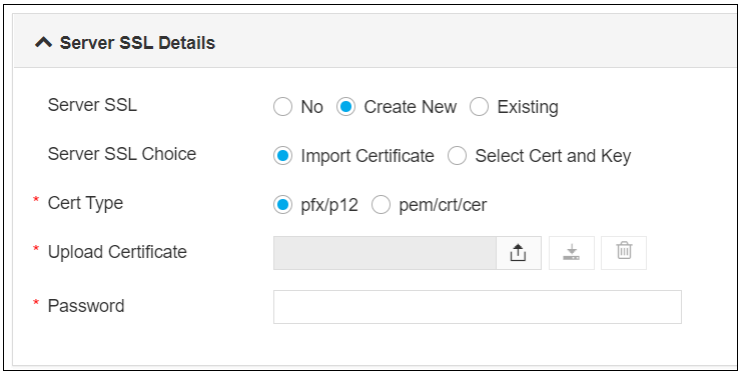
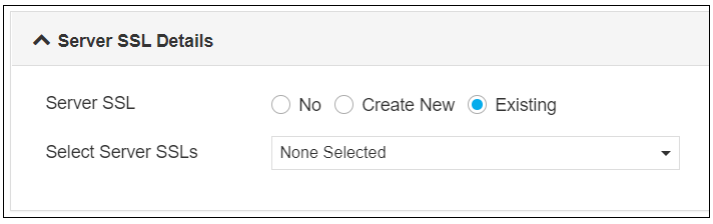
Field	Description
Client SSL	Select the Client SSL options. The options are: • **No** (default) • **Create New** - This option allows you to upload a new Client SSL certificate.  • **Existing** - This option allows you to select a Client SSL certificate from the drop-down option: 

18. Enter or select the field information in the **Server SSL Details** section of Form Input.

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19. The following table provides the field description for the **Server SSL Details** section of Form Input:

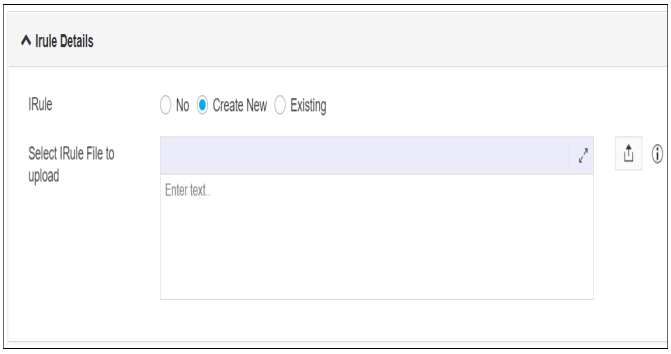
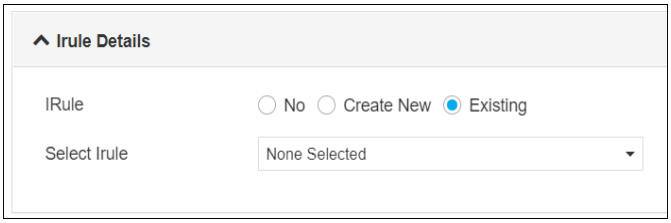
Field	Description
Server SSL	Select the Client SSL options. The options are: • **No** (default) • **Create New** -This option allows you to upload a new Server SSL certificate.  • **Existing**- This option allows you to select a Server SSL certificate from the drop-down option: 

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20. Enter or select the field information in the **Irule Details** section of Form Input.

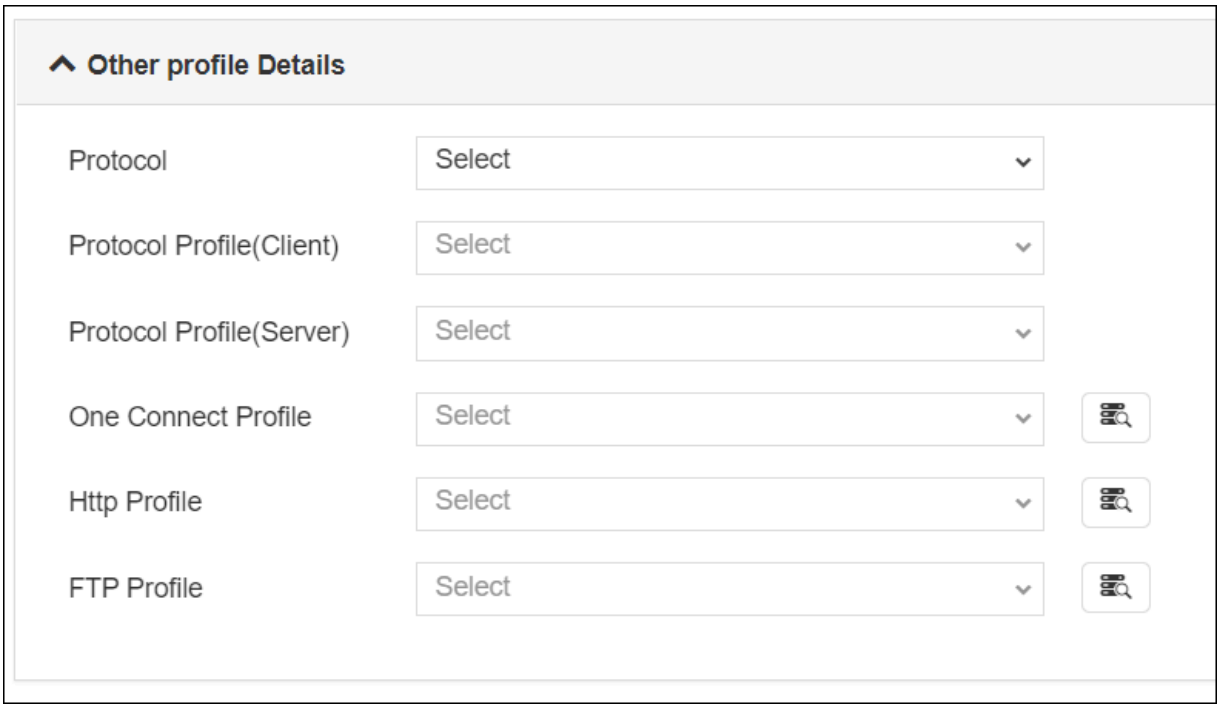


21. The following table provides the field description for the **Irule Details** section of Form Input:

Field	Description
IRule	Select the IRule options. The options are: • **No** (default) • **Create New** -This option allows you to upload a new IRule file.  • **Existing**- This option allows you to select a IRule file from the drop-down option: 

22. Enter or select the field information in the **Other profile Details** section of Form Input.

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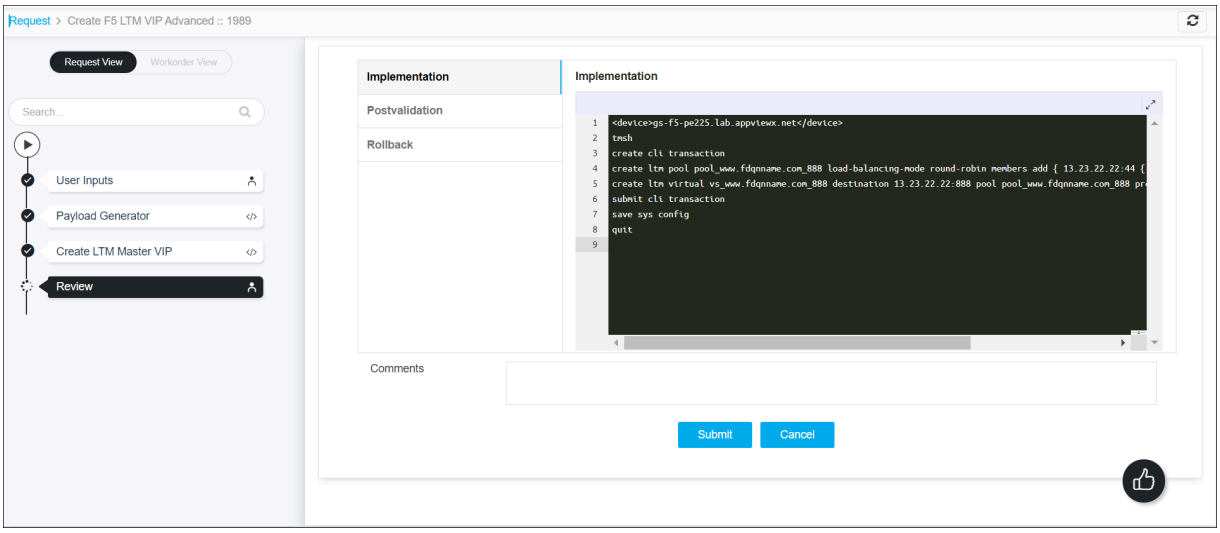


23. Click the **Submit** button.
    The Confirmation popup opens.

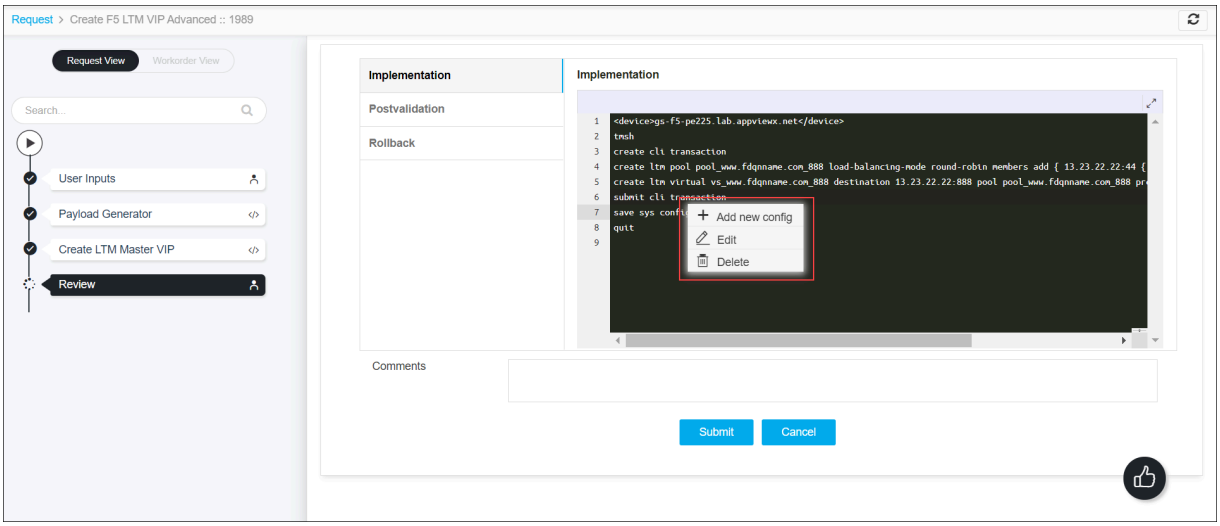
> **Note:**
> - If you want to save this form to edit it later, click the **Save Draft** button, and then click **Ok** in the Confirmation popup window. The form will be saved as Open request under **Request** > **My Request**.
> - If you want to cancel this form, click the **Cancel** button.

24. Click **Ok** to submit the form.
    The pre-validation starts automatically and reaches the **Review** stage.
25. Review the input data under the implementation, rollback, and postvalidation tabs:

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26. (Optional) If you need to change any data at this stage, you can update by clicking the right side of the mouse on the data.



27. After the review, click the **Submit** button.

    The Confirmation popup opens.

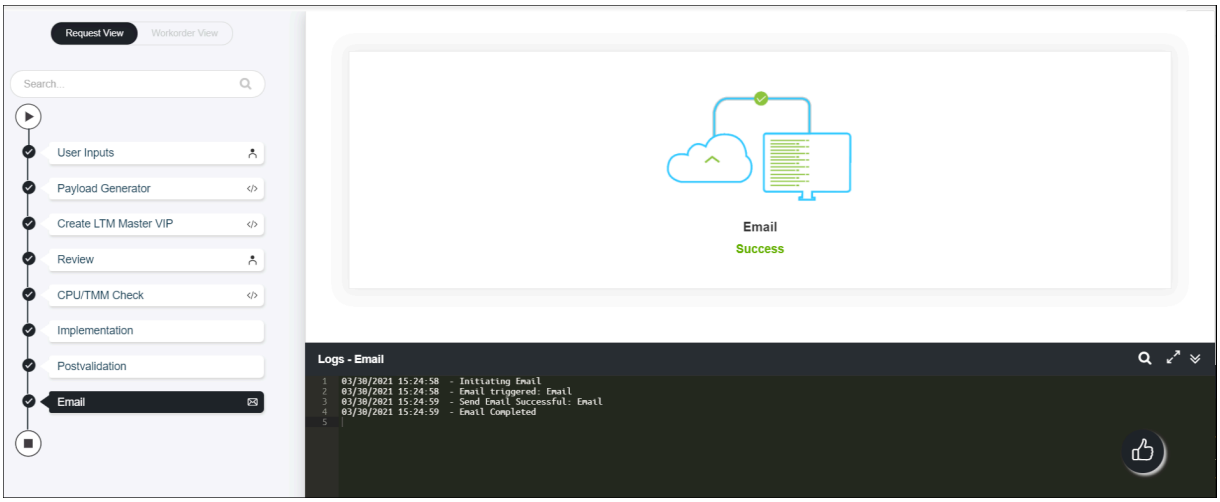
> **Note:** To stop running the workflow creation, click **Cancel**.

28. Click **Ok** to continue the workflow creation.

    It takes a while to complete the post-validation.

29. After the successful post-validation, the workflow is created.

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Note:

- If email IDs are configured for the workflow creation, the email triggers the email IDs.
- The validation stages are shown in the left side of the screen. To view any validation stage, click on the respective stage.

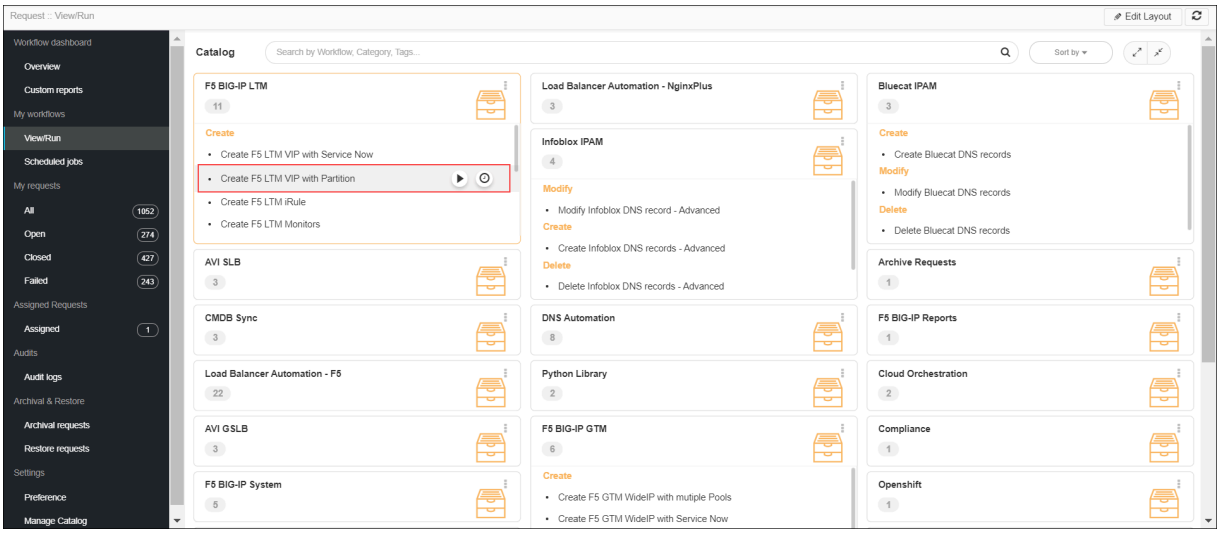
Create F5 LTM VIP with Partition

This workflow creates Extensive VIP with all basic objects in a F5 device on a selected Partition and integrates with DNS - Infoblox/Bluecat for A record creation.

To run this workflow,

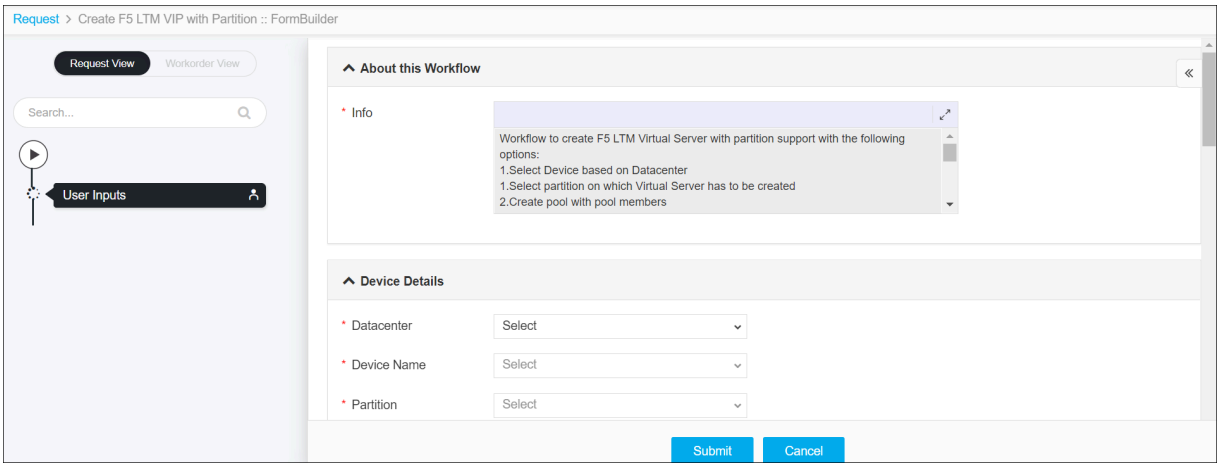
1. Go to ☰ **Menu** > **Request** > **View/Run**.
   The Workflow Catalog page appears.
2. In the Workflow Catalog page, hover over the **Create F5 LTM VIP with Partition** workflow.
   The Run and Schedule buttons are shown.

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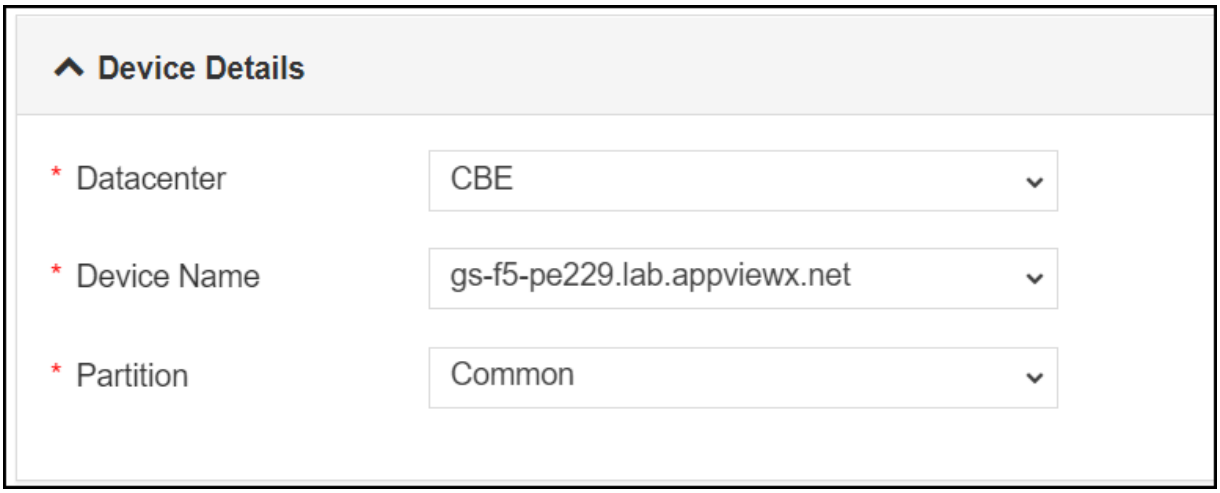
3. Click the Run  button.

   The Form Input page opens:



4. Enter or select the field information in the **Device Details** section of Form Input.

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5. The following table provides the field description for the **Device Details** section of Form Input:

Field	Description
*Datacenter	Displays the list of datacenters of the devices, which are created in the Device Inventory. Select the datacenter of a device from the drop-down option for which this request is to be created. For the devices which are created without a datacenter in the Device Inventory, select the datacenter as **None**.
*Device Name	Displays the list of devices associated with the selected datacenter. If the datacenter is selected as **None**, the devices that are created without datacenter details are listed. Select the desired device from the drop-down option.
*Partition	Partition in which objects will be created. If you want to create a new partition then click **Create New Partition** from the dropdown list and then provide a partition name.

6. Enter or select the field information in the **Virtual Details** section of Form Input.

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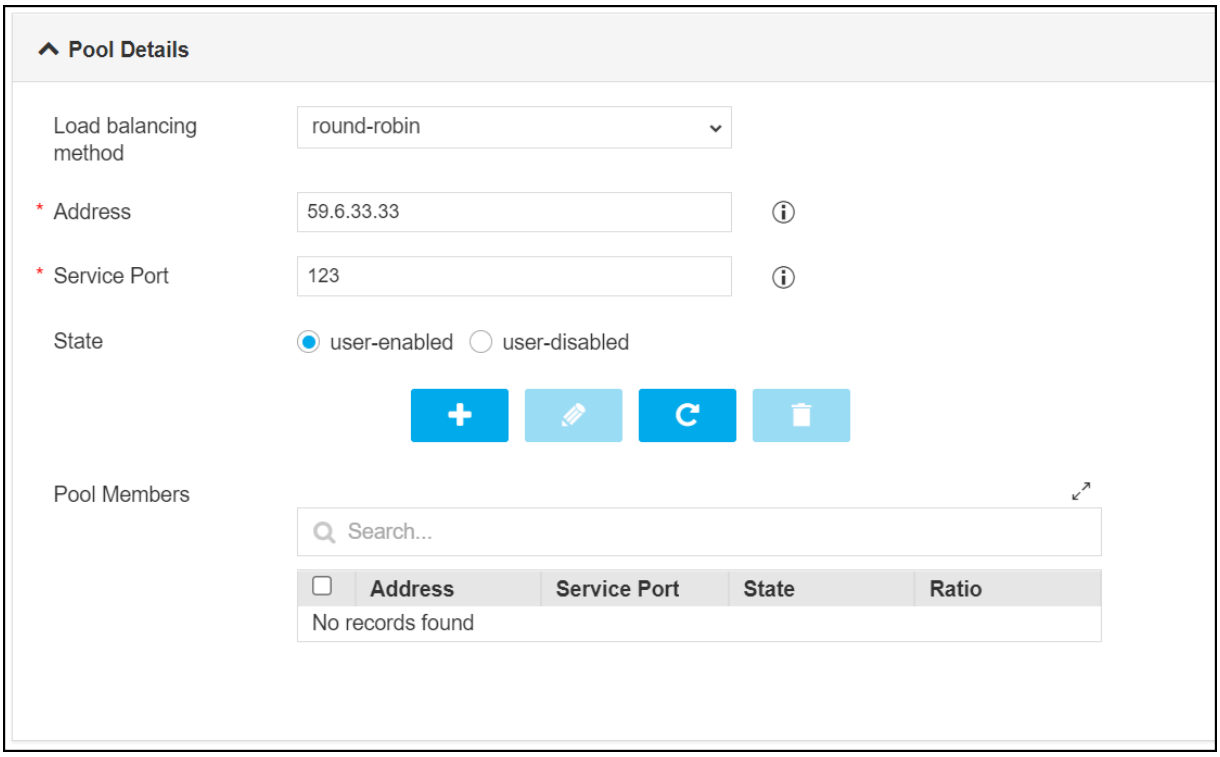


7. The following table provides the field description for the **Virtual Details** section of Form Input:

Field	Description
*Application Name	Enter the FQDN of the virtual server.
*Do you need to Enable SSL Certificates?	Select any of the following options to enable SSL certificates. The default option is No-InSecure Site. • **No-InSecure Site** • **Yes** - Only the servers will have SSL certificates  • **No** – The only Client will have an SSL Certificate • **Yes** - Both Client and Servers will have SSL certificates
*Destination Address	Enter the destination IP address information for the virtual server.
*Service Port	Enter a service port.

8. Enter or select the field information in the **Pool Details** section of Form Input.

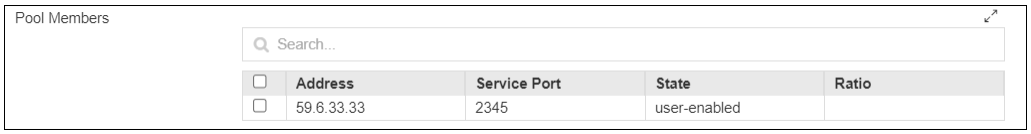
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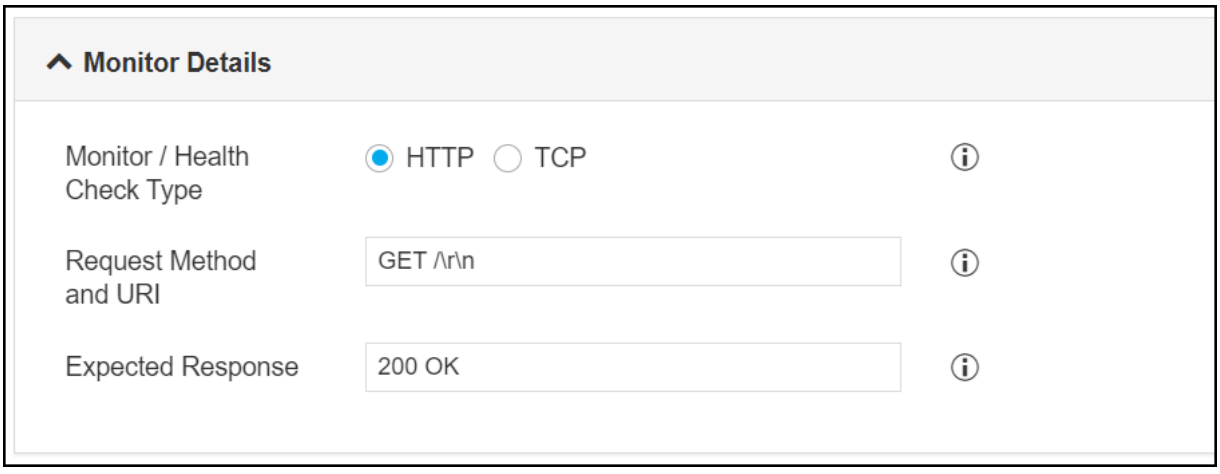
9. The following table provides the field description for the **Pool Details** section of Form Input:

Field	Description
Load Balancing Method	The load balancing method is used to select a pool in this WideIP. The default is a round-robin. The methods are: • **round-robin** - the system selects the pools sequentially. • **least-connection-node** - The system passes a new connection to the node that has the least number of current connections out of all pools of which a node is a member. This method works best in environments where the servers or other equipment you are load balancing have similar capabilities. This is a dynamic load balancing method, distributing connections based on various aspects of real-time server performance analysis, such as the number of current connections per node, or the fastest node response time. • **least-connection-member** - The system passes a new connection to the node that has the least number of current connections in the pool. This method works best in environments where the servers or other equipment you are load balancing have similar capabilities. This is a dynamic load balancing method, distributing connections

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Field	Description
	based on various aspects of real-time server performance analysis, such as the current number of connections per node or the fastest node response time. • **ratio-member** - The number of connections that each machine receives over time is proportionate to a ratio weight you define for each machine within the pool.
*Address	Enter the IP address of the pool.
*Service Port	Enter a service port.
State	The current state of the pool members. The states are: • user-enabled - when you select this option, the system sends traffic to this pool member regardless of the pool member's state. • user-disabled - when this option is selected, the pool member can handle only persistent or active connections.
Pool Members	Enter the IP address of the pool member. And then click the Add button. Any number of pool numbers can be added to the pool. After adding the pool, you can manage them. 

10. Enter or select the field information in the **Monitor Details** section of Form Input.

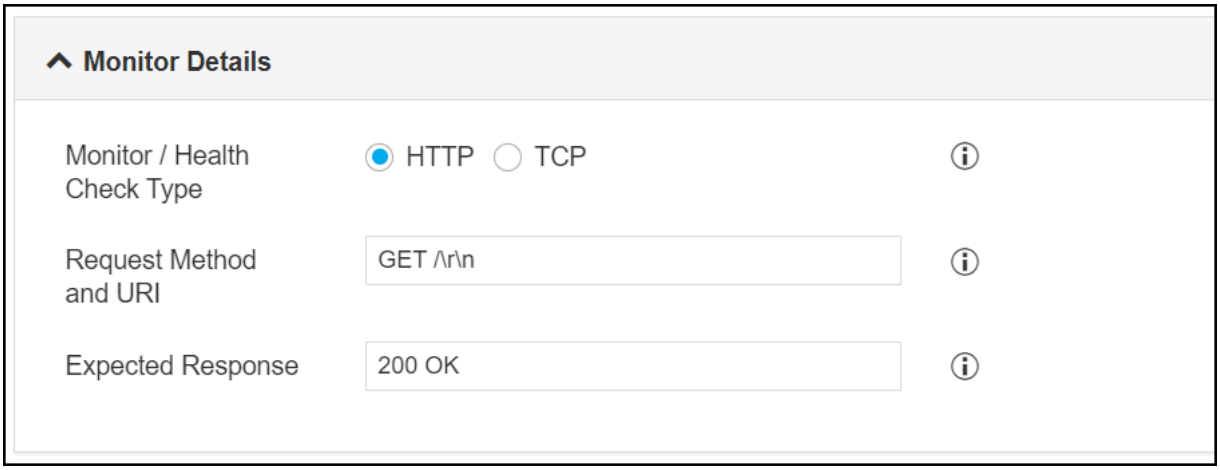


11. The following table provides the field description for the **Monitor Details** section of Form Input:

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Field	Description
Monitor / Health Check Type	Select the health monitors that are available to add for the pool: • **HTTP** • **TCP**
Request Method and URI	The text string that the monitor sends to the target object. You must include \r\n at the end of a non-empty Send String. The default setting is GET /\r\n, which retrieves a default HTML file for a website. To retrieve a specific page from a website, specify a fully qualified path name
Expected Response	The regular expression representing the text string that the monitor looks for in the returned resource. The most common receive expressions contain a text string that is included in an HTML file on your site. The text string can be regular text, HTML tags, or image names, and the associated operation is not case-sensitive.

12. Enter or select the field information in the **Snat Pool Details** section of Form Input.



13. The following table provides the field description for the **Snat Pool Details** section of Form Input:

Field	Description
Snat Choice	Select the SNAT choice for any connections using this pool. The options are: • **AutoMap** -This option allows you to select a translation address from the available self-IP address. • **SNAT** - This option allows you to select a floating self IP as a translation address. When this option is select

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Field	Description
	* Snat Pool Select

14. Enter or select the field information in the **Persistence Details** section of Form Input.



15. The following table provides the field description for the **Persistence Details** section of Form Input:

Field	Description
Persistence	This option allows you to use a pre-configured object that automatically enables persistence when you as • **None** • **Create New** - create a new persistence by providing persistence details: * Persistence Type Select • **Existing** - select the existing persistence details: * Persistence Type Select * Select Persistence Select

16. Click the **Submit** button.

    The Confirmation popup opens.

Note:

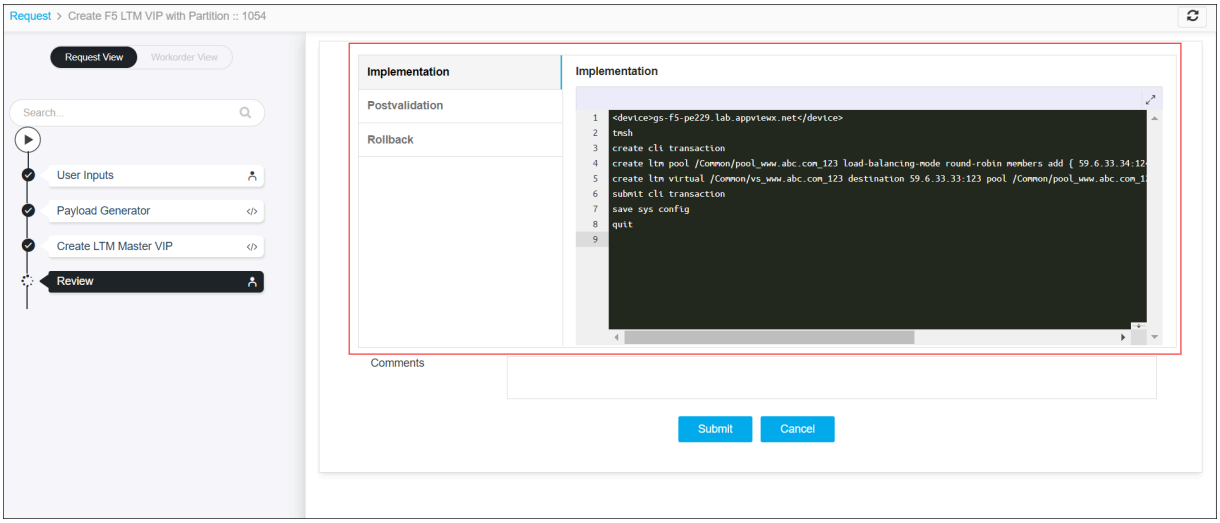
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- If you want to save this form to edit it later, click the **Save Draft** button, and then click **Ok** in the Confirmation popup window. The form will be saved as Open request under **Request** > **My Request**.
- If you want to cancel this form, click the **Cancel** button.

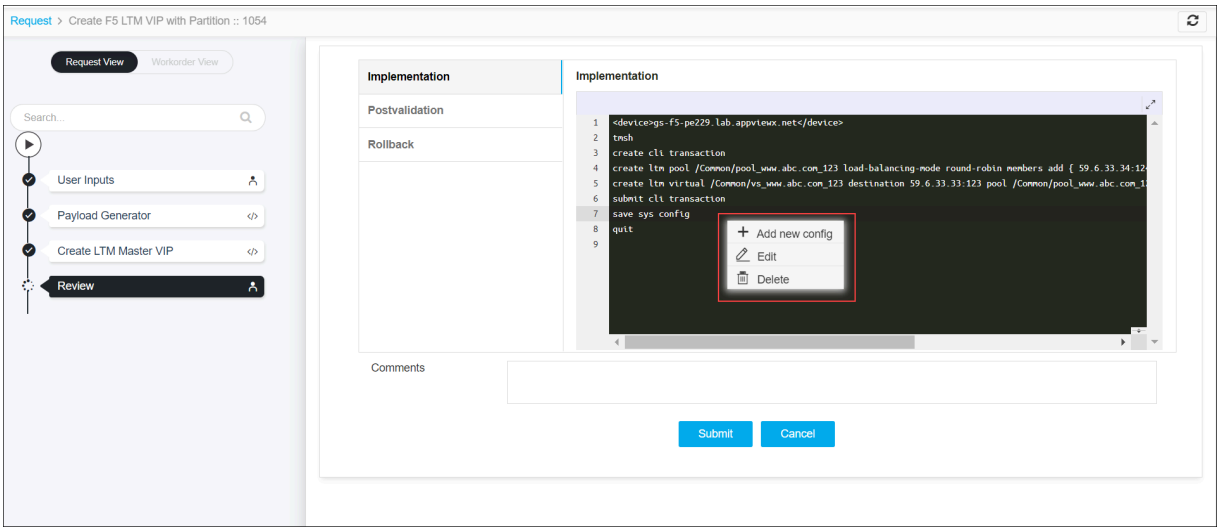
17. Click **Ok** to submit the form.

    The validation starts automatically and reaches the **Review** stage.

18. Review the input data under the **implementation**, **rollback**, and **postvalidation** tabs:



19. (Optional) If you need to change any data at this stage, you can update by clicking the right-side of the mouse on the data.



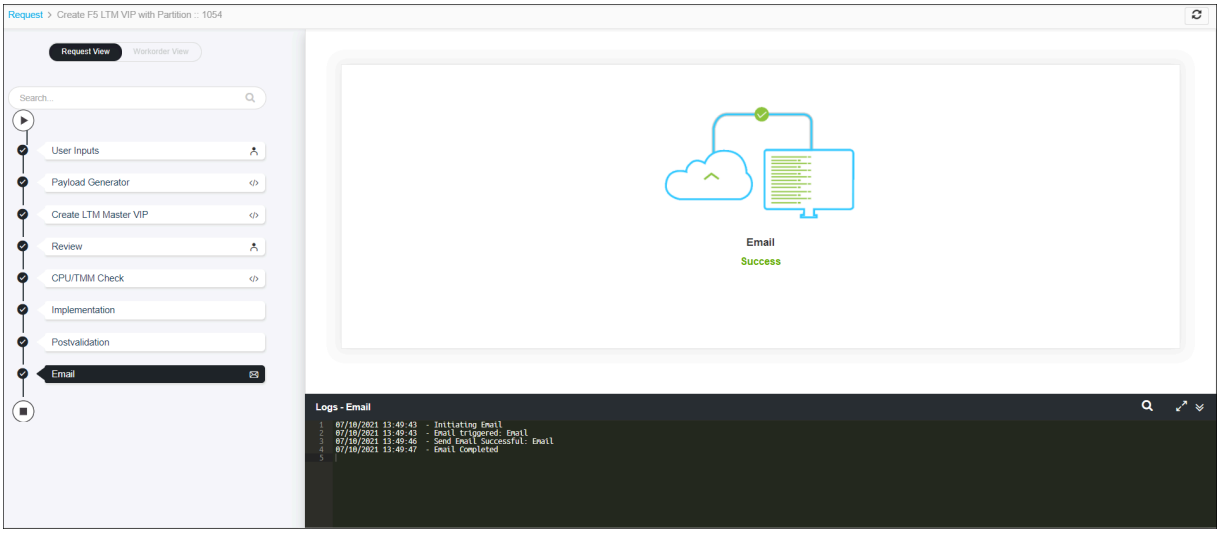
20. After the review, click the **Submit** button.

    The Confirmation popup opens.

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Note: Click Cancel to stop running the workflow creation.

21. Click **Ok** to continue the workflow creation.
    It takes a while to complete the post-validation.
22. The workflow is created and the email triggered to the configured email IDs.



Note: The stages of the request are shown in the left side of the screen. To view a particular stage of the request, click the respective stage.

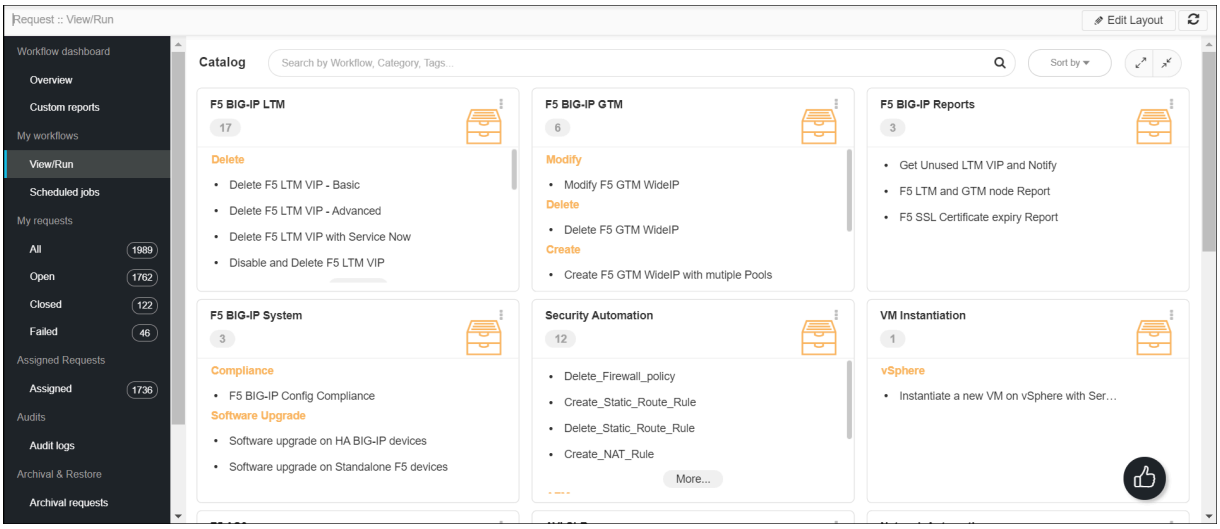
Delete F5 LTM VIP - Basic

This workflow deletes VIP along with its associated objects (Pool, Monitor, IRule, Profiles, Persistence, Snatpool, Policy) by searching the VIP using the Destination IP and Port across Managed Devices in AppViewX.

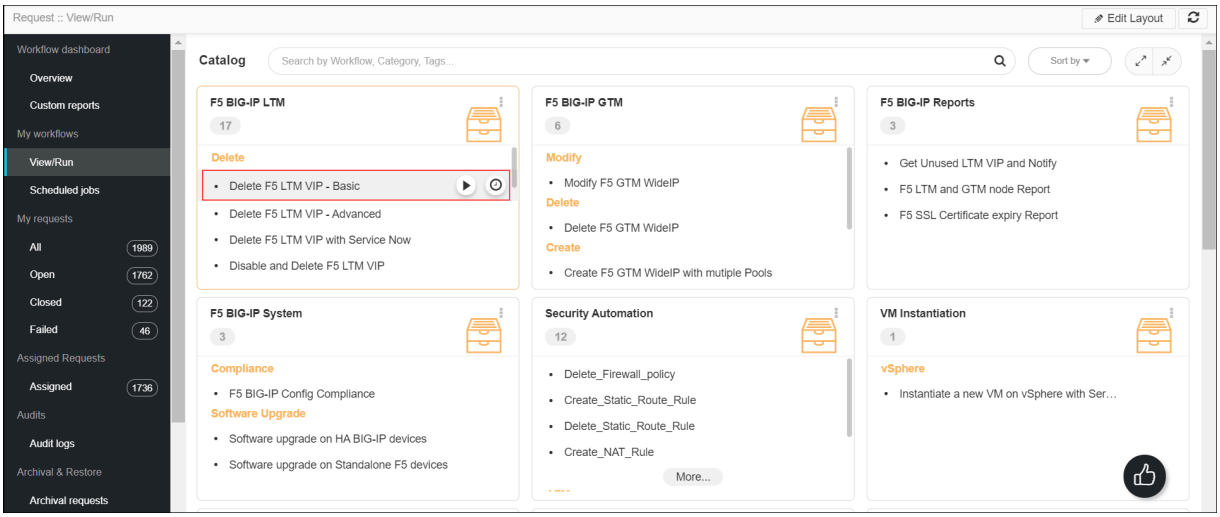
To run this workflow,

1. Go to ☰ **Menu** > **Request** > **View/Run**.
   The Workflow Catalog page appears.

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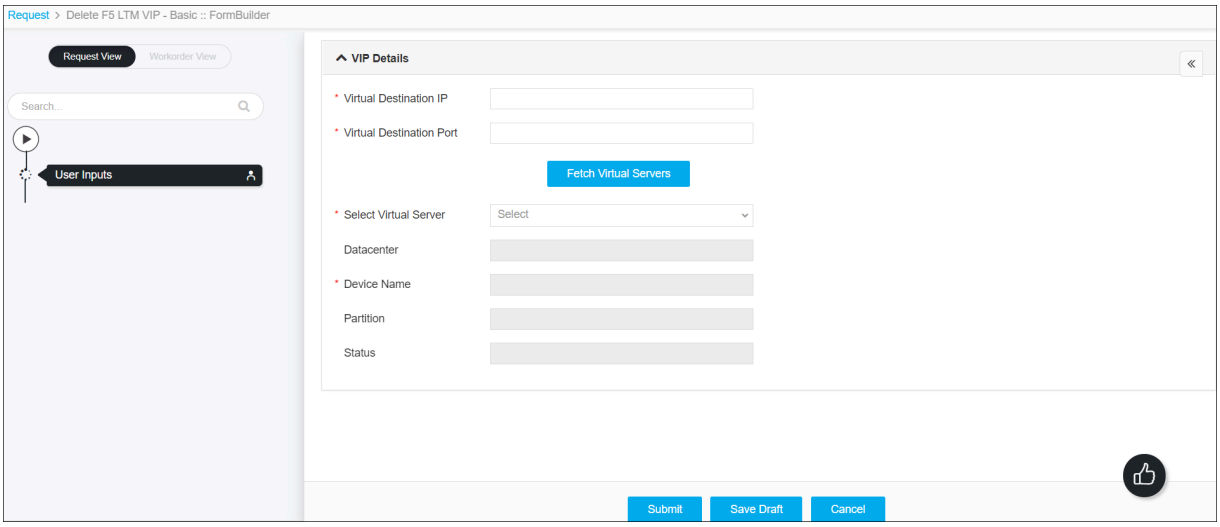


2. In the Workflow Catalog page, hover over the **Delete F5 LTM VIP - Basic** workflow.
   The Run and Schedule buttons are shown.



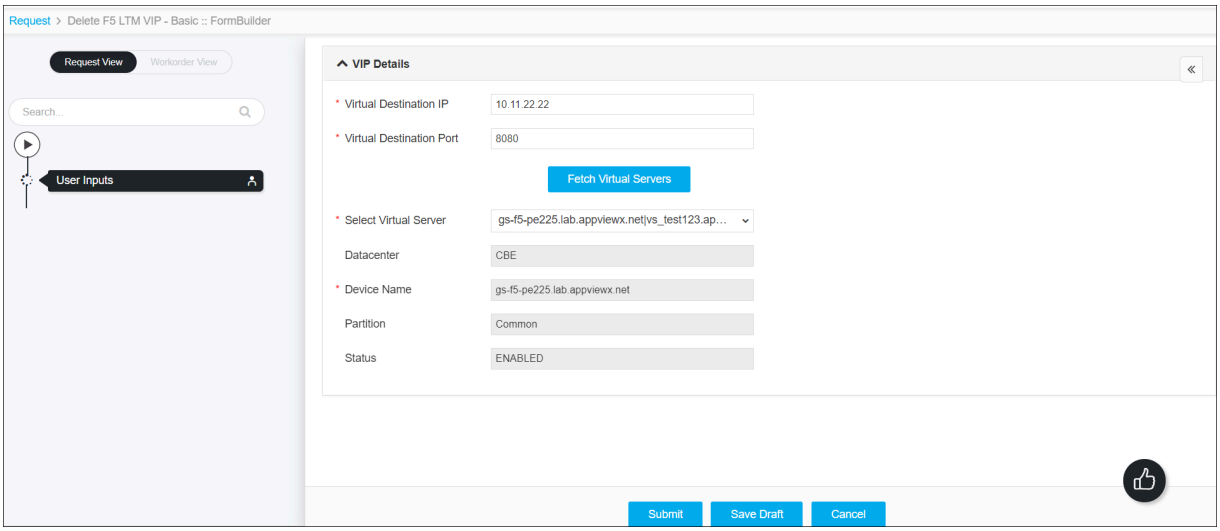
3. Click the Run  button.
   The Form Input page opens:

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4. Enter the **Virtual Destination IP** and **Virtual Destination Port**, and then click the **Fetch Virtual Servers** button.

   The Virtual Server details are fetched for the given Virtual Destination IP and Virtual Destination Port.



5. Click the **Submit** button.

   The Confirmation popup opens.

Note:

- If you want to save this form to edit it later, click the **Save Draft** button, and then click **Ok** in the Confirmation popup window. The form will be saved as Open request under **Request** > **My Request**.
- If you want to cancel this form, click the **Cancel** button.

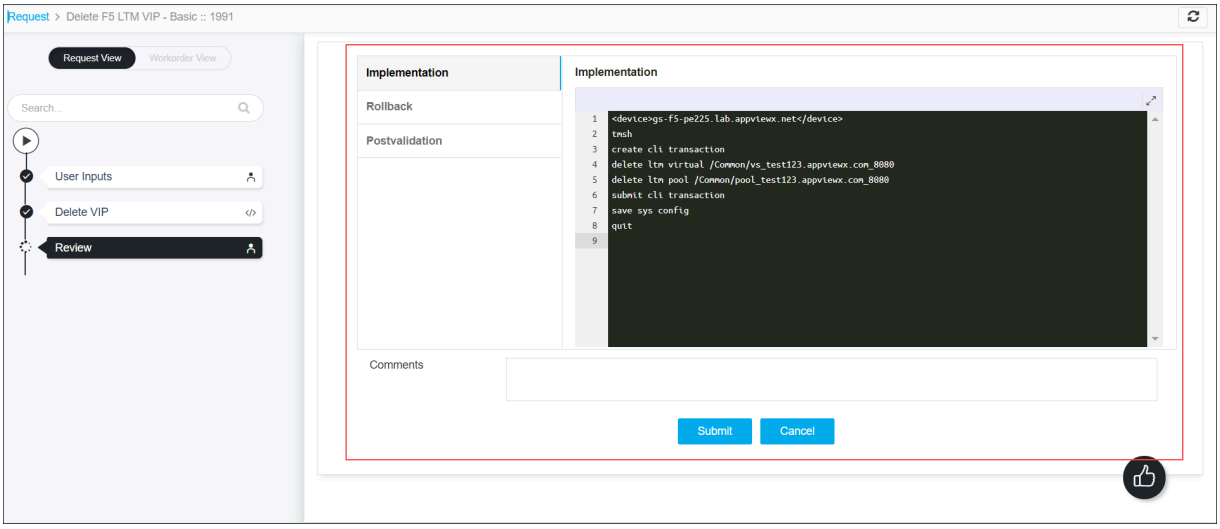
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6. Click **Ok** to submit the form.

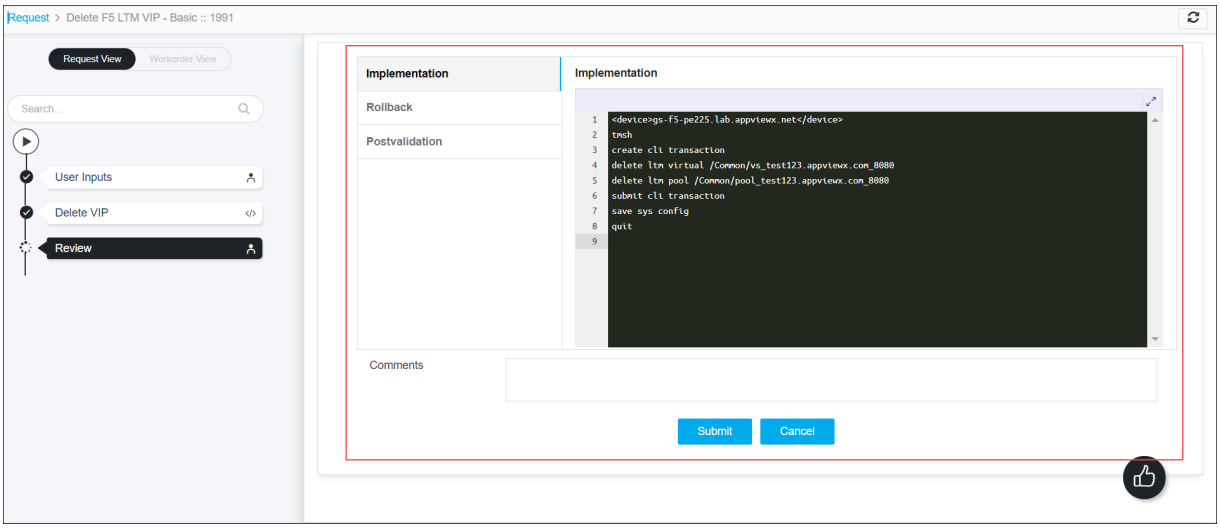
   The validation starts automatically and reaches the **Review** stage.

> **Note:**
> - If there is any failure at this stage, start a new request by providing the correct data.
> - Alternatively, select the failed request and clone it. Update the correct input data in the form input, and submit the workflow again.

7. Review the input data under the **implementation**, **rollback**, and **postvalidation** tabs:



8. (Optional) If you need to update any data at this stage, you can do so by clicking the right side of the mouse on the data and selecting the desired option.

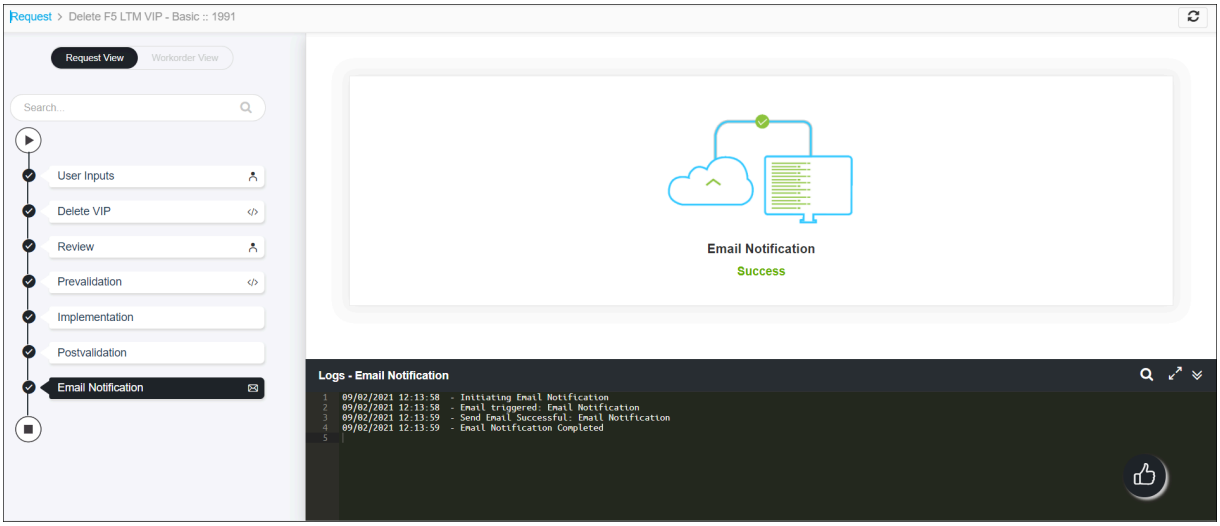


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9. After the review, click the **Submit** button.
   The Confirmation popup opens.

> **Note:** To stop running the workflow creation, click **Cancel**.

10. Click **Ok** to continue the workflow creation.
    It takes a while to complete the request.
11. The workflow is created and the email triggered to the configured email IDs.



> **Note:** The stages of the request are shown in the left side of the screen. To view a particular stage of the request, click the respective stage.

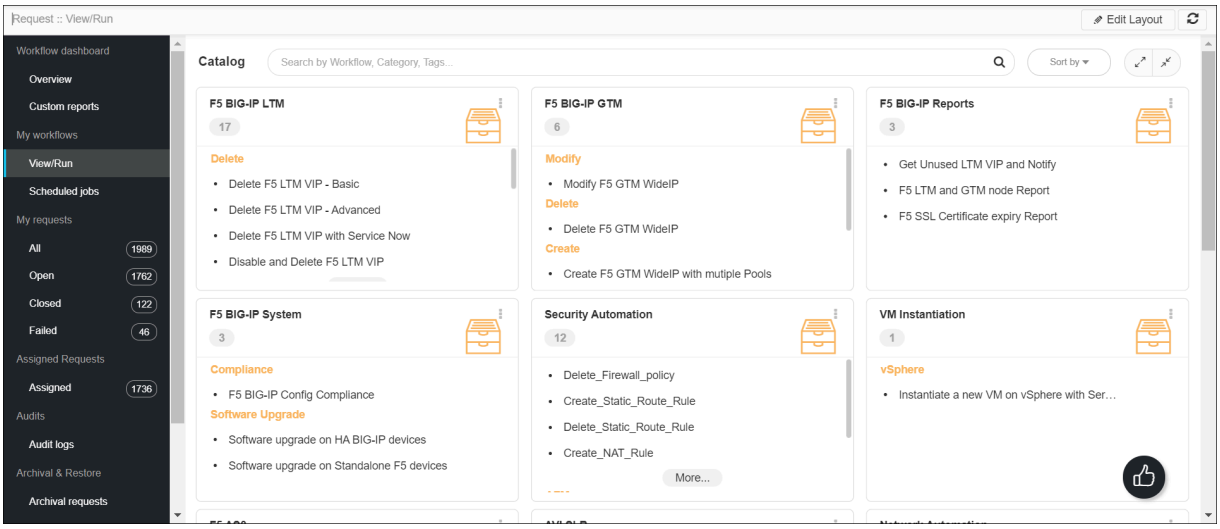
Delete F5 LTM VIP - Advanced

This workflow deletes VIP along with its associated objects (Pool, Monitor, IRule, Profiles, Persistence, Snatpool, Policy) and multi-select the associated object types to consider for deletion.

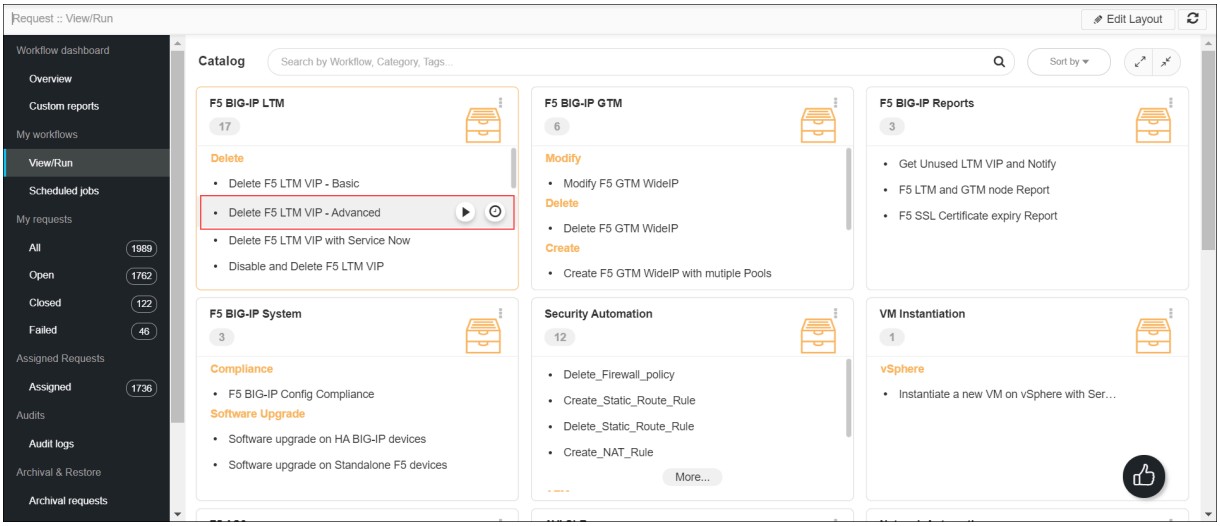
To run this workflow,

1. Go to ☰ **Menu** > **Request** > **View/Run**.
   The Workflow Catalog page appears.

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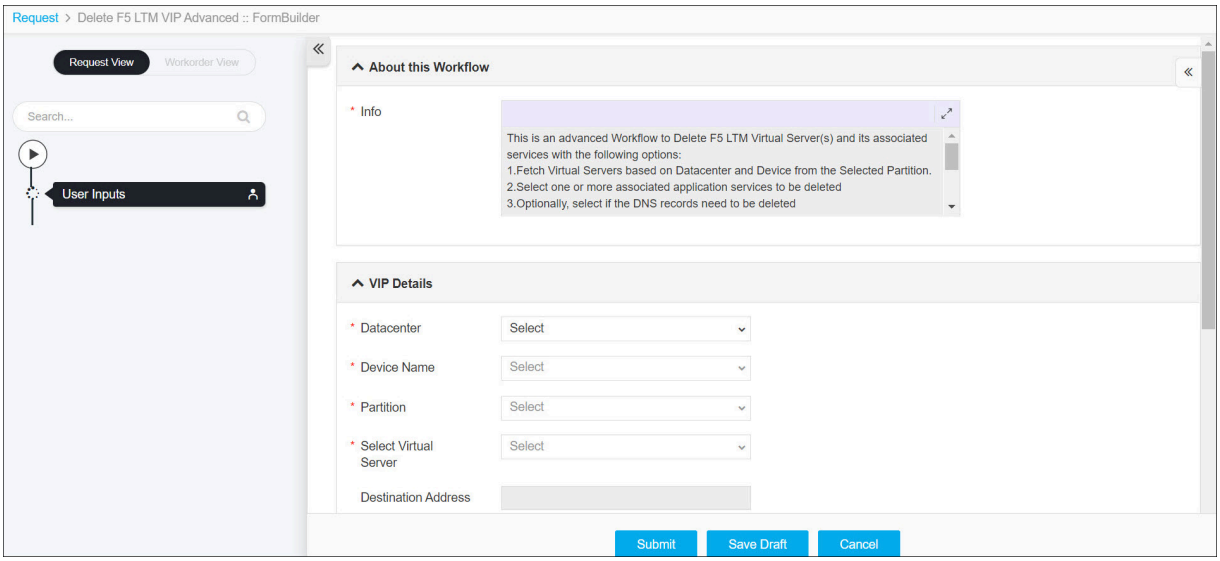


2. In the Workflow Catalog page, hover over the **Delete F5 LTM VIP - Advanced** workflow.
   The Run and Schedule buttons areshown.

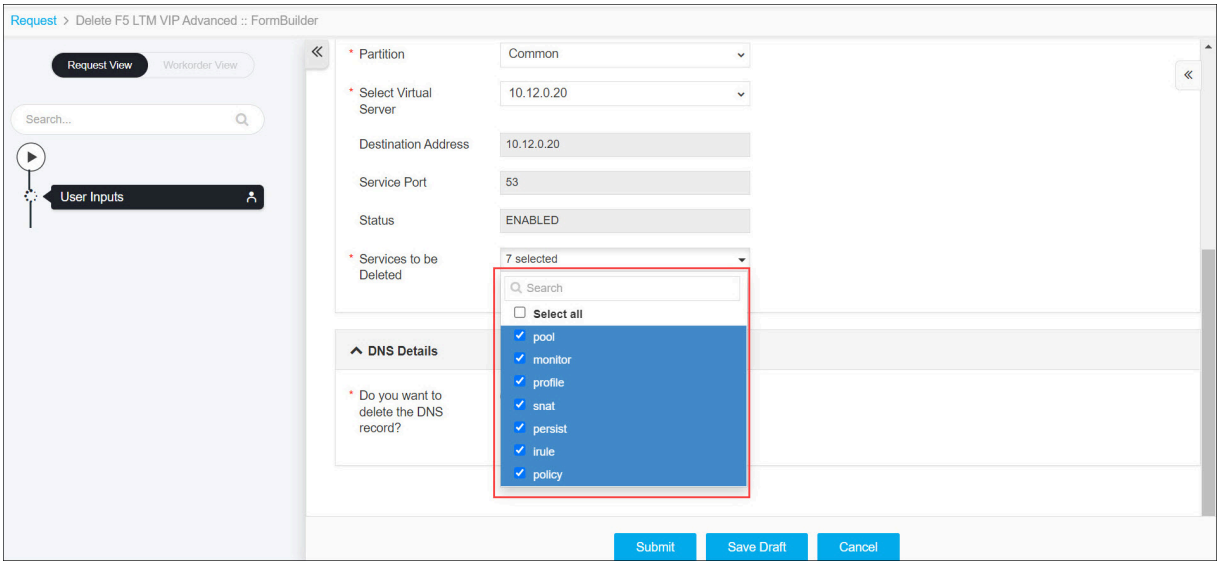


3. Click the Run  button.
   The Form Input page opens:

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4. Select **Datacenter**, **Device Name**, **Partition**, and then select **Virtual Server** from the drop-down list. The services that are associated with the selected device are displayed.



5. Select all the services of the device or select/clear only the services of the devices that are to be deleted.
6. (Optional) Select the **DNS details** of the device, if DNS details of the device are required to be deleted.
7. Click the **Submit** button.

Note:

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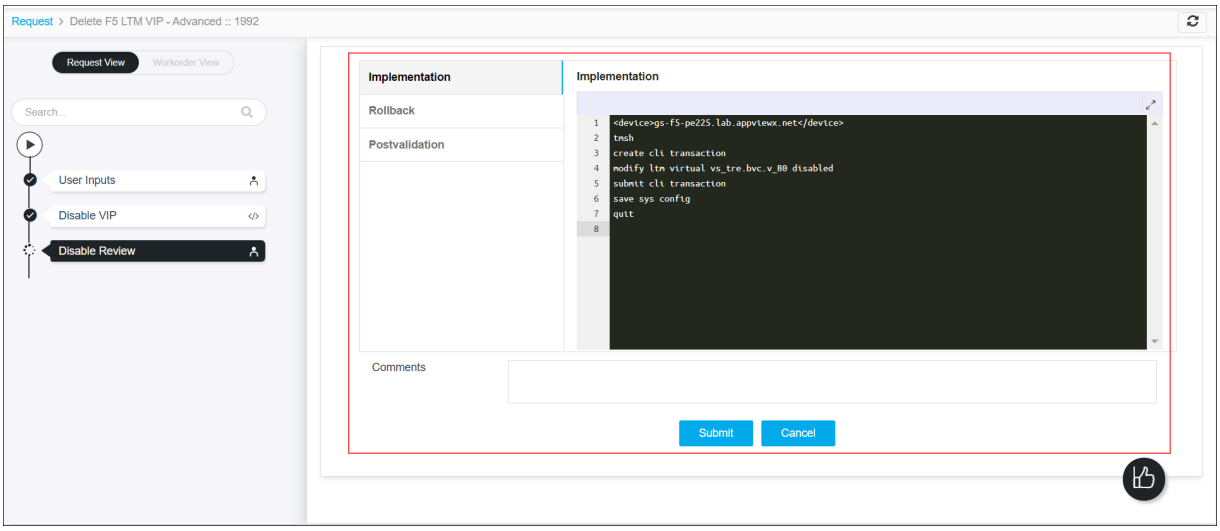
- If you want to save this form to edit it later, click the **Save Draft** button, and then click **Ok** in the Confirmation popup window. The form will be saved as Open request under **Request** > **My Request**.
- If you want to cancel this form, click the **Cancel** button.

8. Click **Ok** to submit the form.
   The validation starts automatically and reaches the Disable Review stage.

Note:

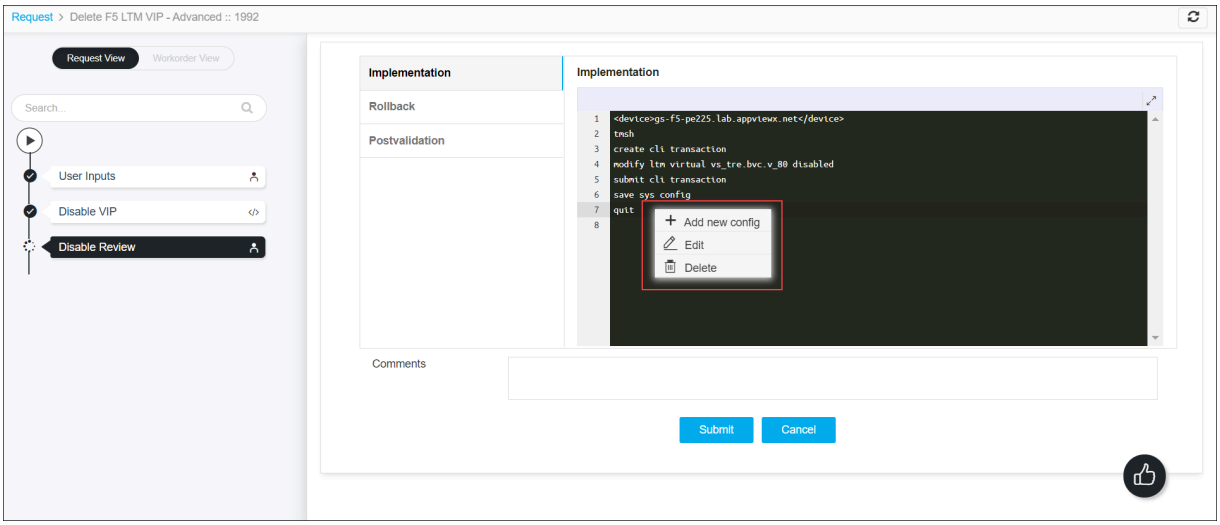
- If there is any failure at this stage, start a new request by providing the correct data.
- Alternatively, select the failed request and clone it. Update the correct input data in the form input, and submit the workflow again.

9. Review the input data under the **implementation**, **rollback**, and **postvalidation** tabs:



10. (Optional) If you need to update any data at this stage, you can do so by clicking the right side of the mouse on the data and selecting the desired option.

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11. After the review, click the **Submit** button.

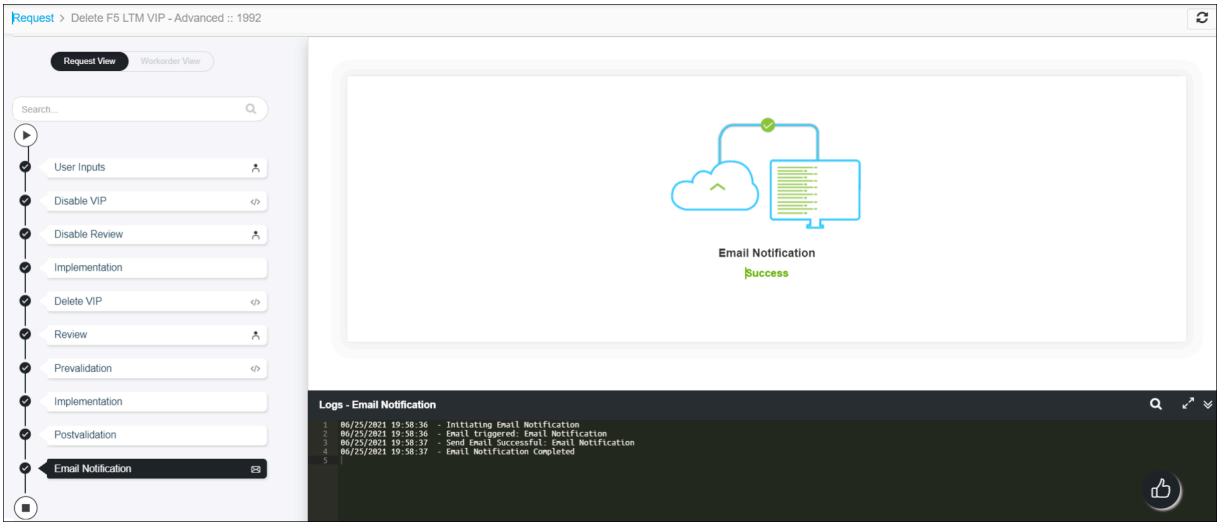
    The Confirmation popup opens.

> **Note:** To stop running the workflow creation, click **Cancel**.

12. Click **Ok** to continue the workflow creation.

    It takes a while to complete the request.

13. The workflow is created and the email is triggered to the configured email IDs.



> **Note:** The stages of the request are shown in the left-side of the screen. To view a particular stage of the request, click the respective stage.

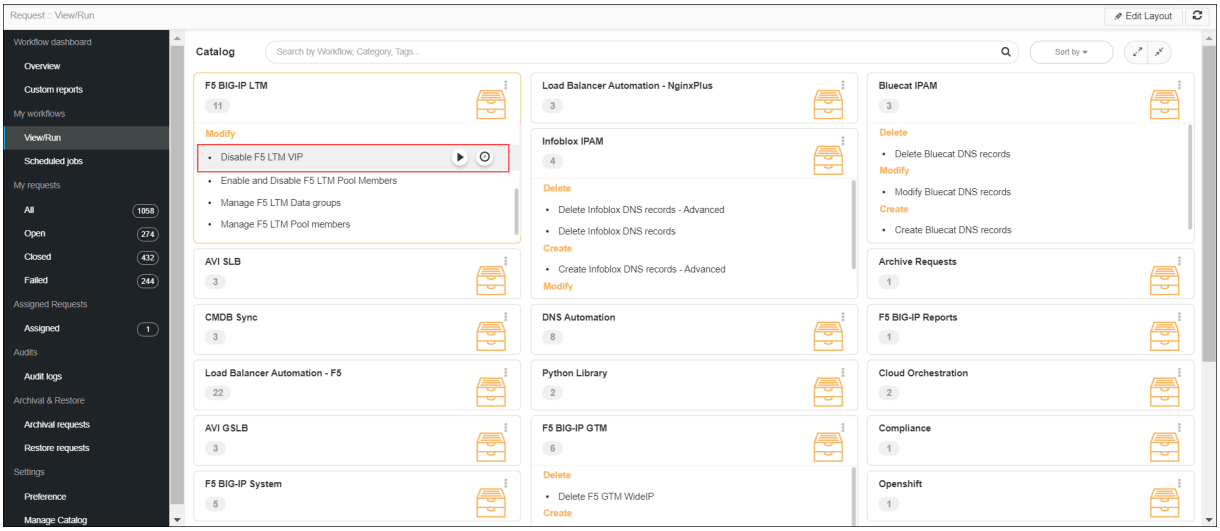
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Disable Unused F5 LTM VIP

This workflow disables VIPs that are unused for ‘n’ number of days.

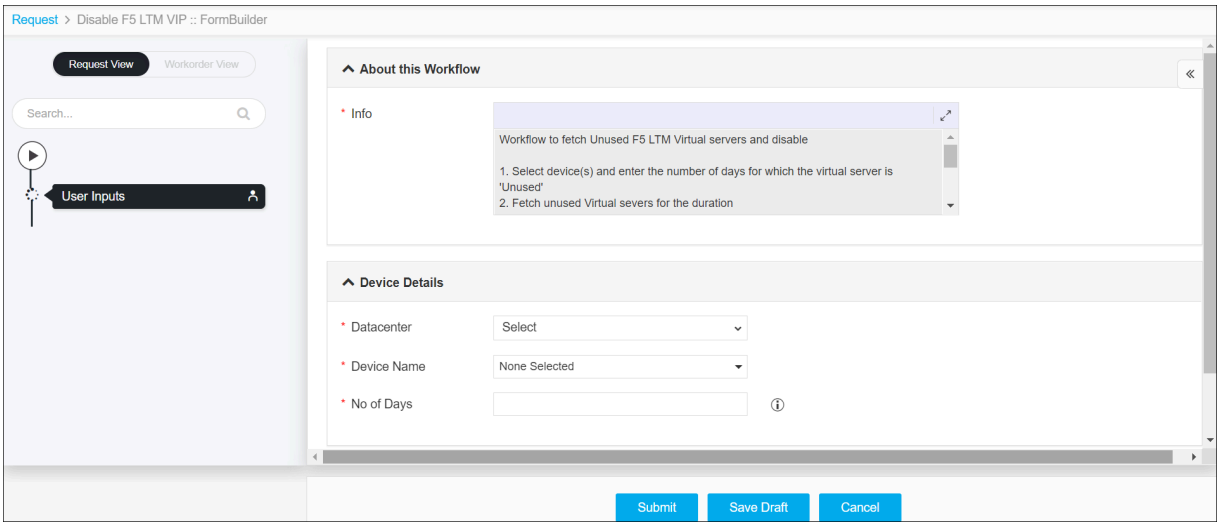
To run this workflow,

1. Go to **Menu** > **Request** > **View/Run**.
   The Workflow Catalog page appears.
2. In the Workflow Catalog page, hover over the Disable F5 LTM VIP workflow.
   The Run and Schedule buttons are shown.

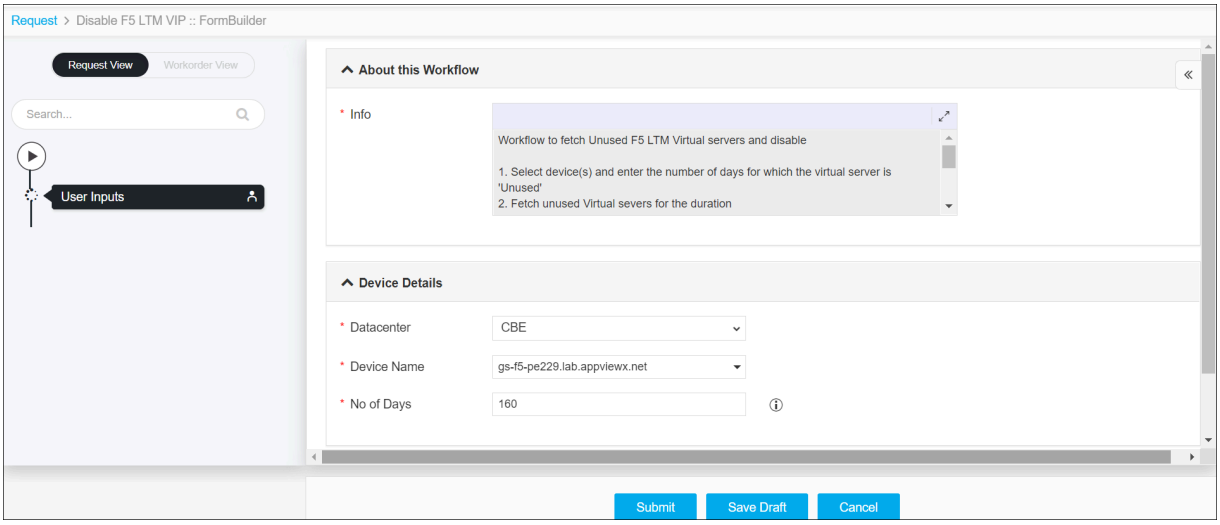


3. Click the Run  button.
   The Form Input page opens:

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4. Enter or select the field information in the Form Input.



5. The following table provides the field description for the Form Input:

Field	Description
*Datacenter	Displays the list of datacenters of the devices, which are created in the Device Inventory. Select the datacenter of a device from the drop-down option for which this request is to be created. For the devices which are created without a datacenter in the Device Inventory, select the datacenter as **None**.
*Device Name	Displays the list of devices associated with the selected datacenter. If the datacenter is selected as **None**, the devices that are created without datacenter details are listed. Select the desired devices from the drop-down option.

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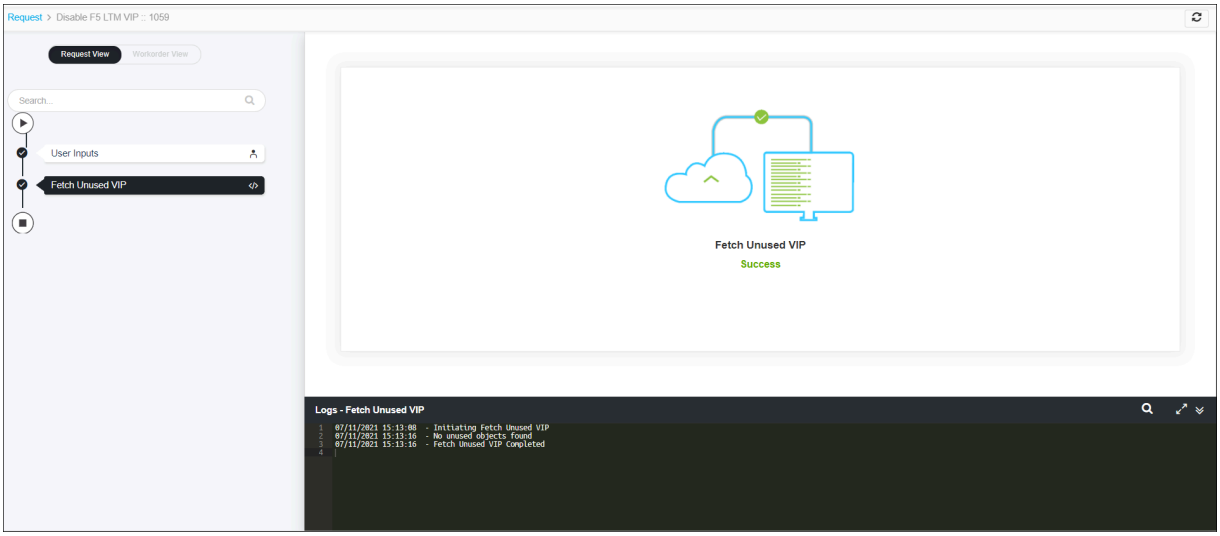
Field	Description
	Note: Selecting multiple devices is possible.
No of Days	Enter the no. of days to disable the virtual server.

6. Click the **Submit** button.

   The Confirmation popup opens.

> **Note:**
> - If you want to save this form to edit it later, click the **Save Draft** button, and then click **Ok** in the Confirmation popup window. The form will be saved as Open request under **Request** > **My Request**.
> - If you want to cancel this form, click the **Cancel** button.

7. The workflow is successfully completed.



> **Note:** The stages of the request are shown in the left side of the screen. To view a particular stage of the request, click the respective stage.

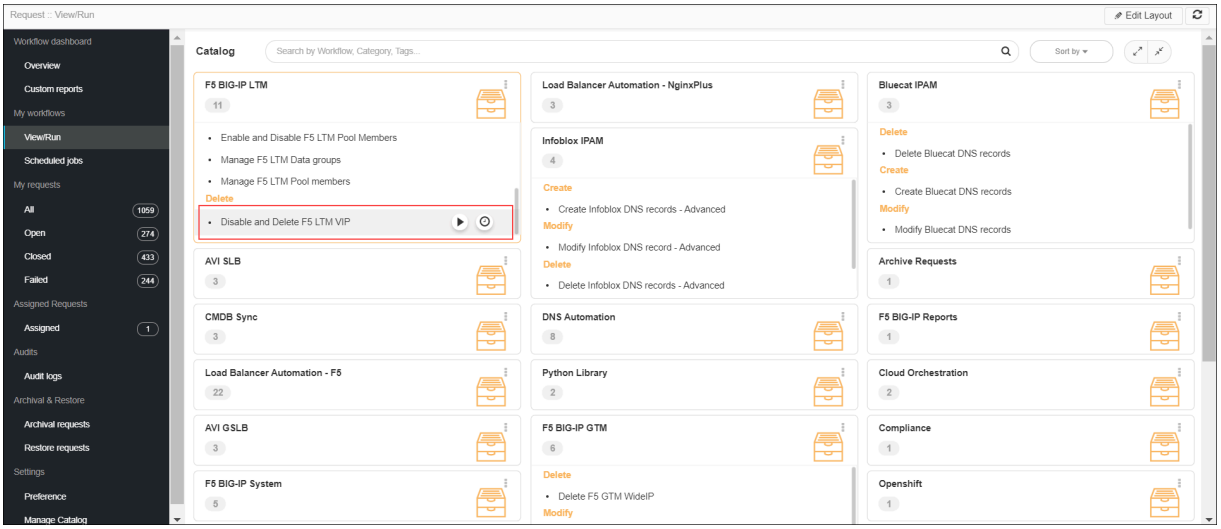
Disable and Delete Unused F5 LTM VIP

This workflow disables and deletes the VIPs that are unused for ‘n’ number of days.

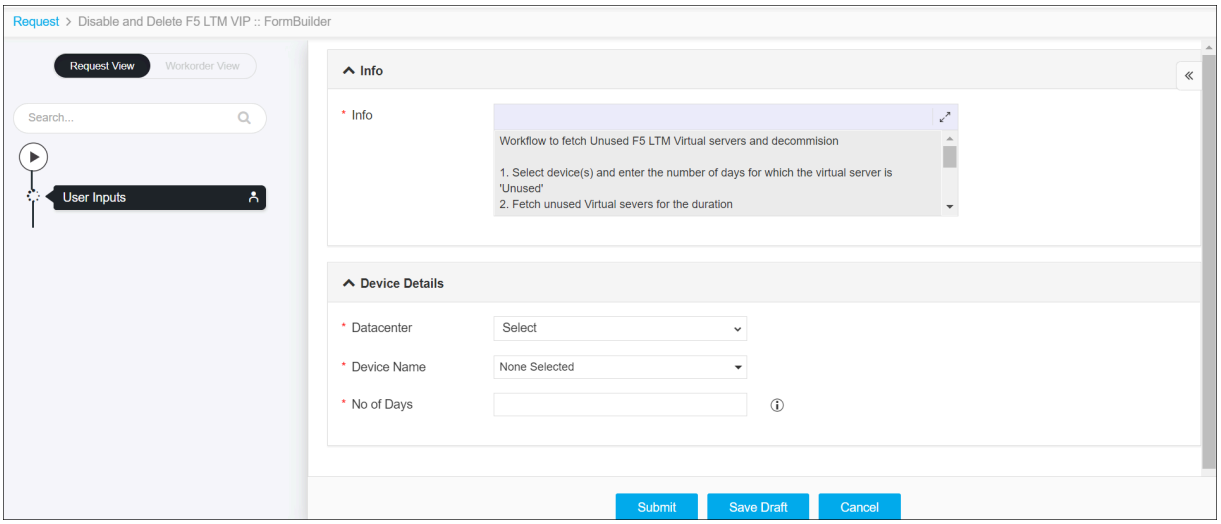
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To run this workflow,

1. Go to **Menu** > **Request** > **View/Run**.
   The Workflow Catalog page appears.
2. In the Workflow Catalog page, hover over the **Disable and Delete F5 LTM VIP** workflow.
   The Run and Schedule buttons are shown.

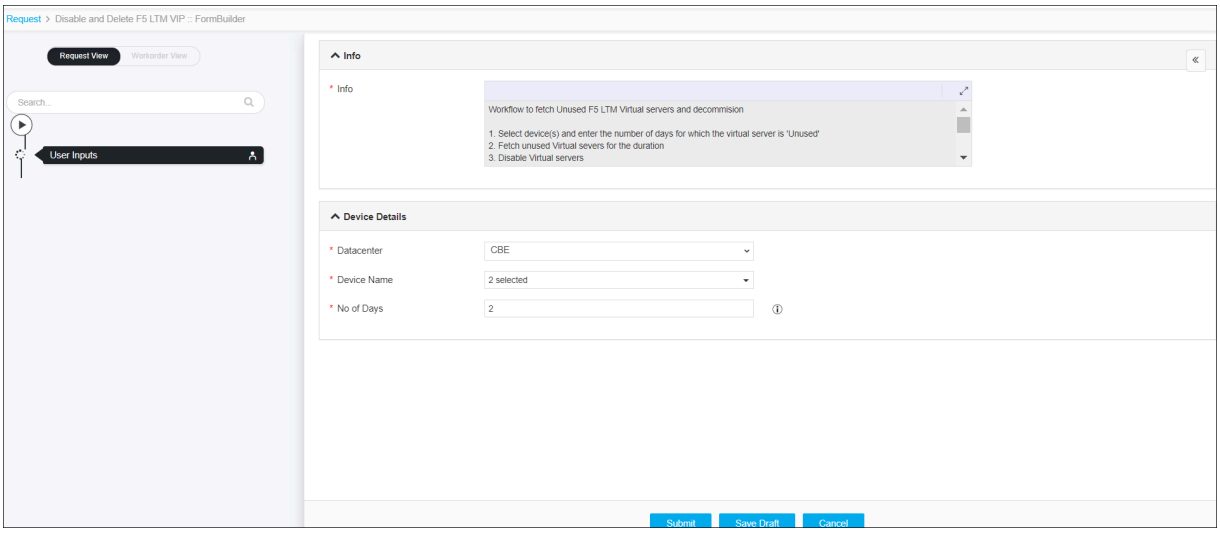


3. Click the Run  button.
   The Form Input page opens:



4. Enter or select the field information in the Form Input.

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5. The following table provides the field description for the Form Input:

Field	Description
*Datacenter	Displays the list of datacenters of the devices, which are created in the Device Inventory. Select the datacenter of a device from the drop-down option for which this request is to be created. For the devices which are created without a datacenter in the Device Inventory, select the datacenter as **None**.
*Device Name	Displays the list of devices associated with the selected datacenter. If the datacenter is selected as **None**, the devices that are created without datacenter details are listed. Select the desired devices from the drop-down option. **Note:** Selecting multiple devices is possible.
No of Days	Enter the no. of days for which the virtual server is not used.

6. Click the **Submit** button.

   The Confirmation popup opens.

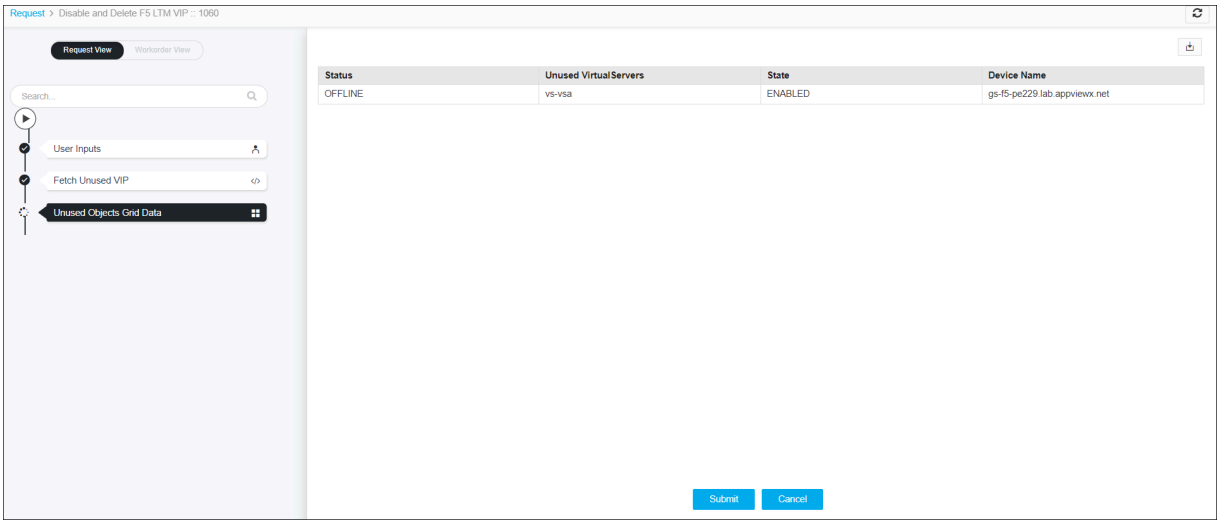
Note:

- If you want to save this form to edit it later, click the **Save Draft** button, and then click **Ok** in the Confirmation popup window. The form will be saved as Open request under **Request** > **My Request**.
- If you want to cancel this form, click the **Cancel** button.

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7. Click **Ok** to submit the form.

   The fetching unused VIPs starts automatically and reaches the **Unused Objects Grid Data** stage.



Note:

- If there is any failure at this stage, start a new request by providing the correct data.
- Alternatively, select the failed request and clone it. Update the correct input data in the form input, and submit the workflow again.
- To download the Unused Objects Grid Data report, click the Download ( ) button.

8. Click the **Submit** button.

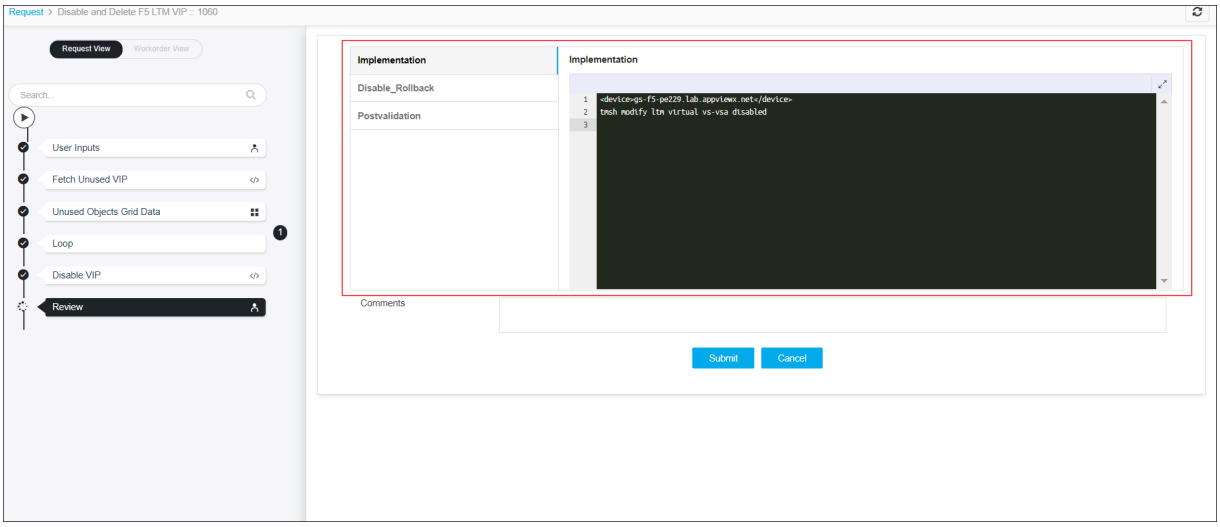
   The Confirmation popup opens.

9. Click **Ok** to submit the form.

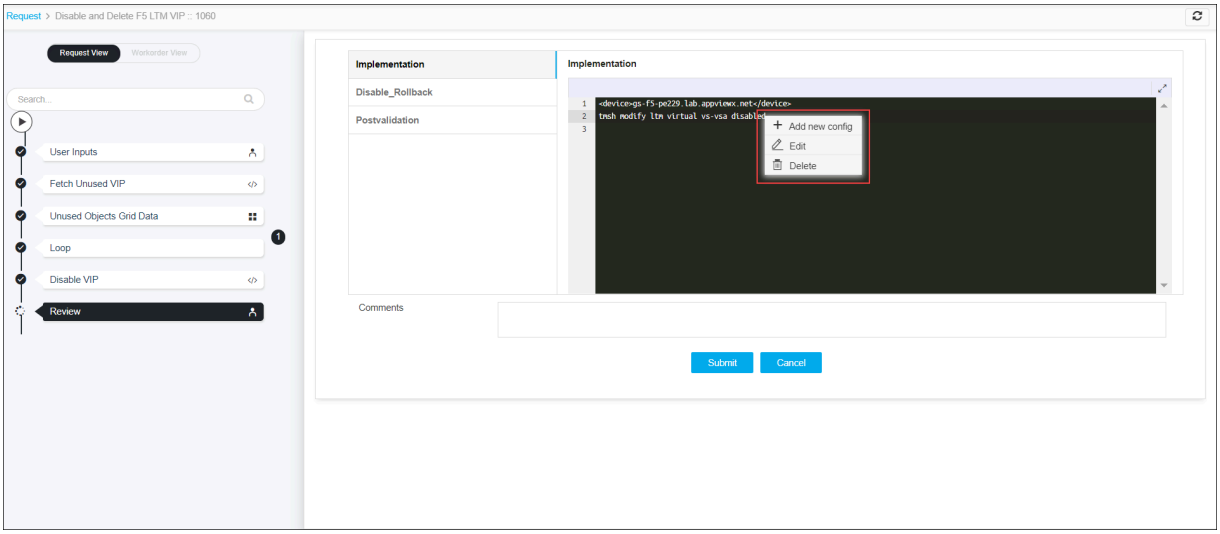
   The validation starts automatically and reaches the **Review** stage.

10. Review the input data under the **implementation**, **rollback**, and **postvalidation** tabs:

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11. (Optional) If you need to update any data at this stage, you can do so by clicking the right side of the mouse on the data and selecting the desired option.



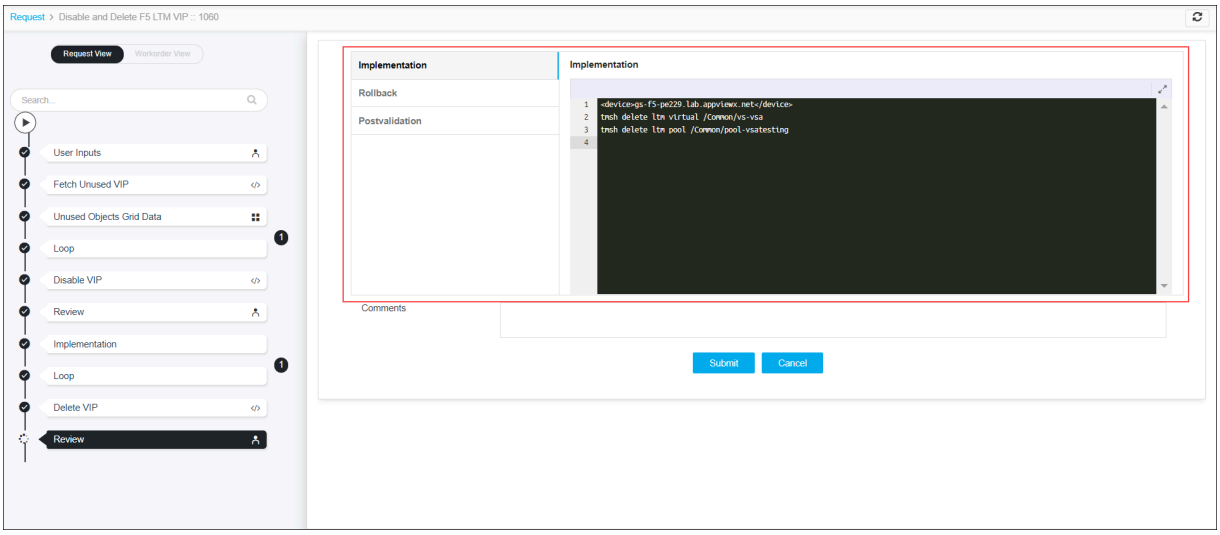
12. After the review, click the **Submit** button.

    The implementation process starts and reaches the **Review** stage.

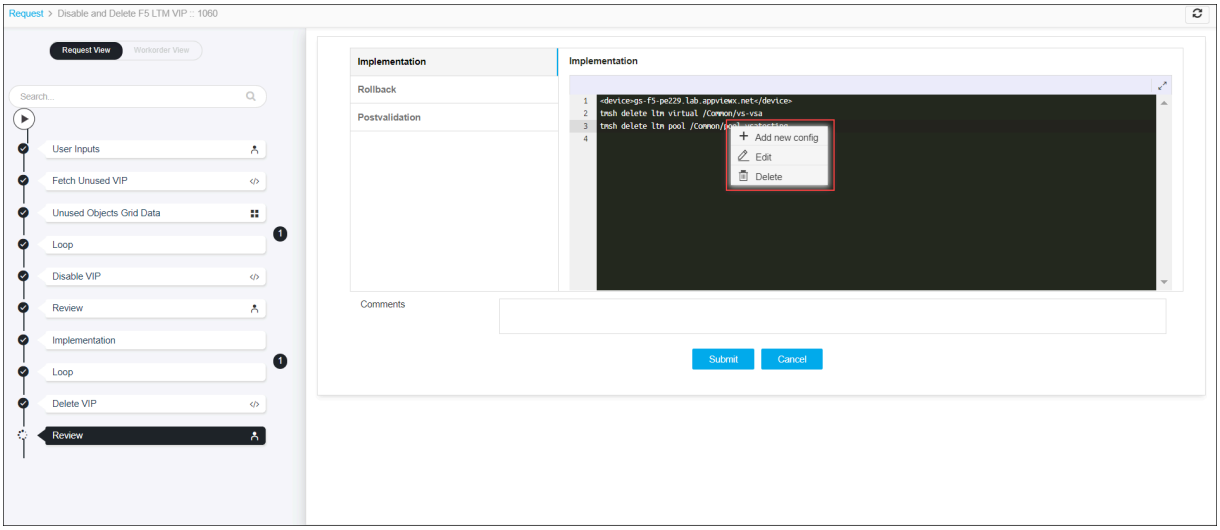
13. Review the data, and then click the **Submit** button to implement the changes.

    The implementation starts.

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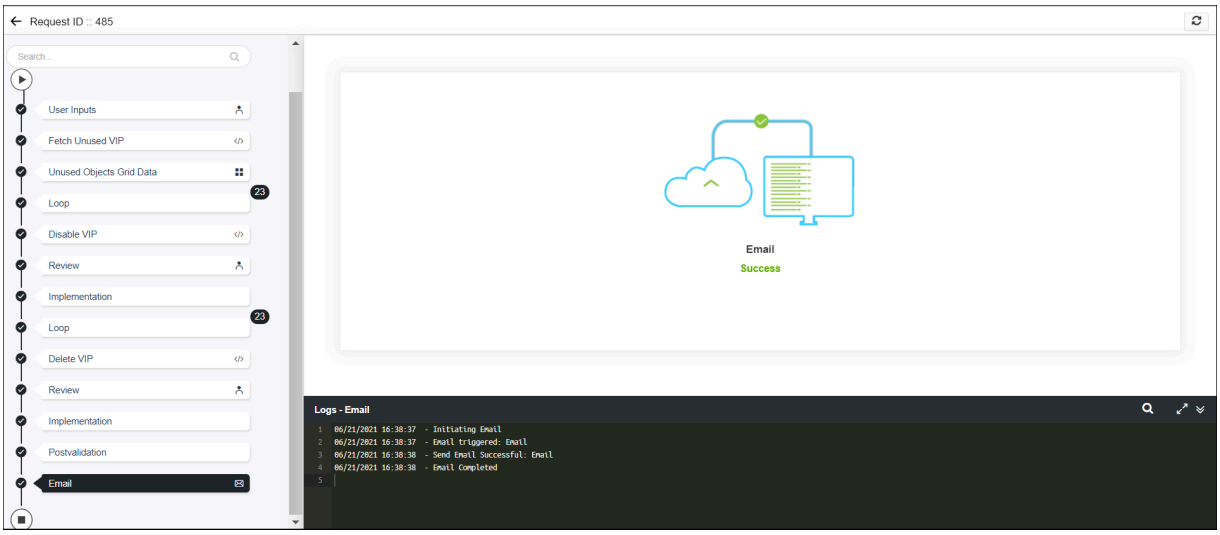


14. (Optional) If you need to update any data at this stage, you can do so by clicking the right side of the mouse on the data and selecting the desired option.



15. The workflow is created and the email is triggered to the configured email IDs.

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Note: The stages of the request are shown in the left-side of the screen. To view a particular stage of the request, click the respective stage.

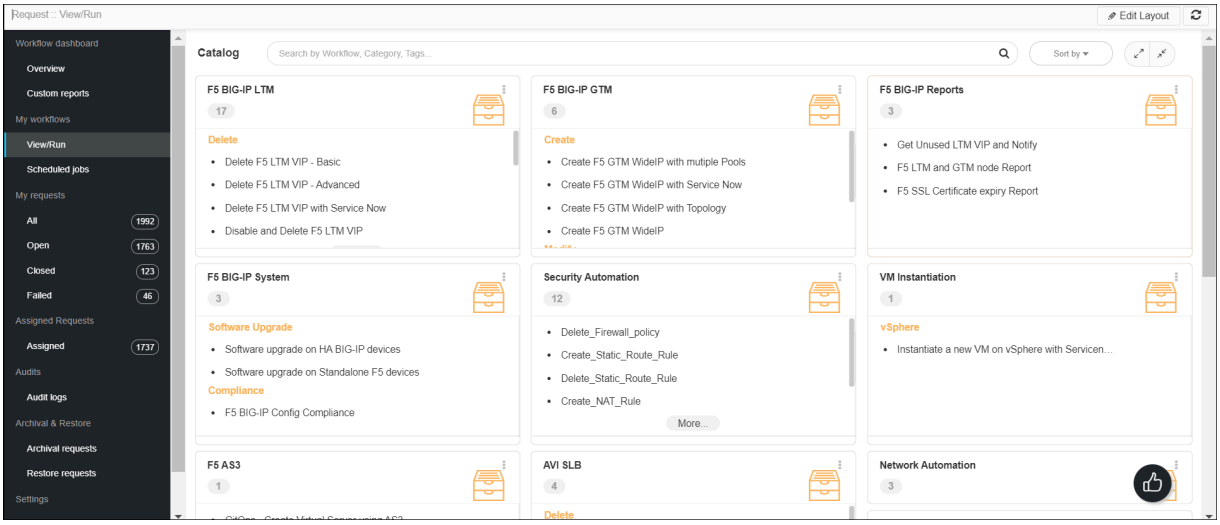
Get Unused LTM VIP and Delete

By running this workflow, you can delete VIPs that are unused for ‘n’ number of days.

To run this workflow,

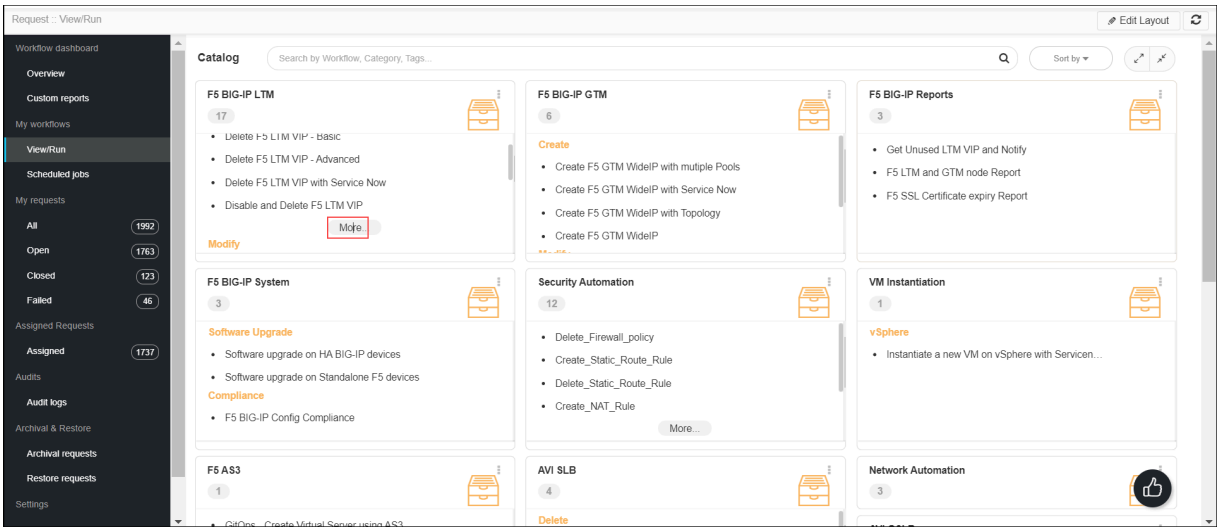
1. Go to **Menu** > **Request** > **View/Run**.

   The Workflow Catalog page appears.

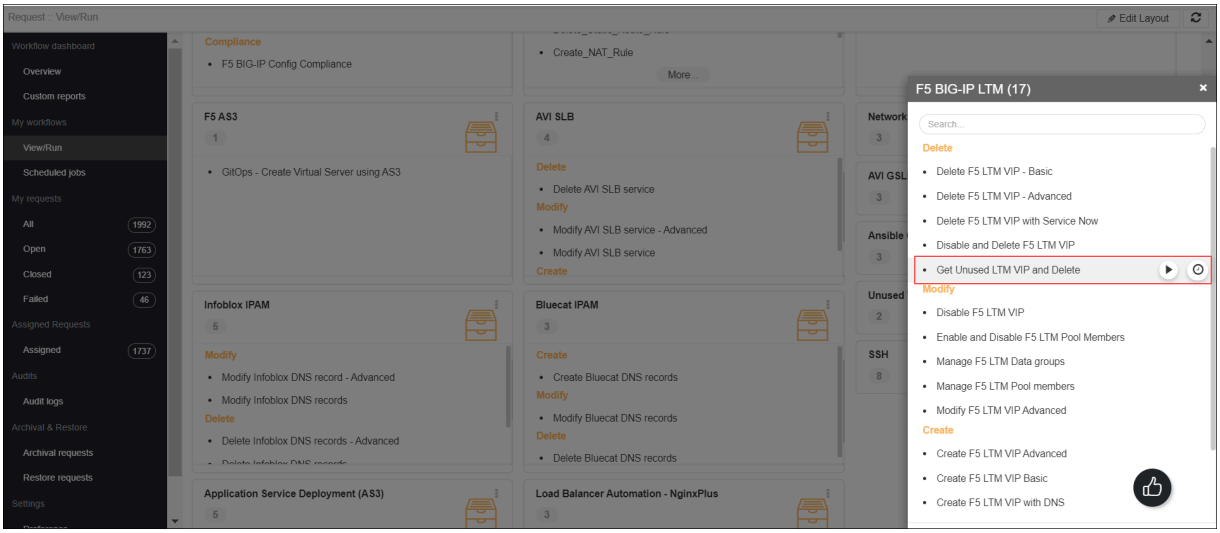


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2. In the Workflow Catalog page, click More under the category **F5 BiG-IP LTM** > **Delete**.

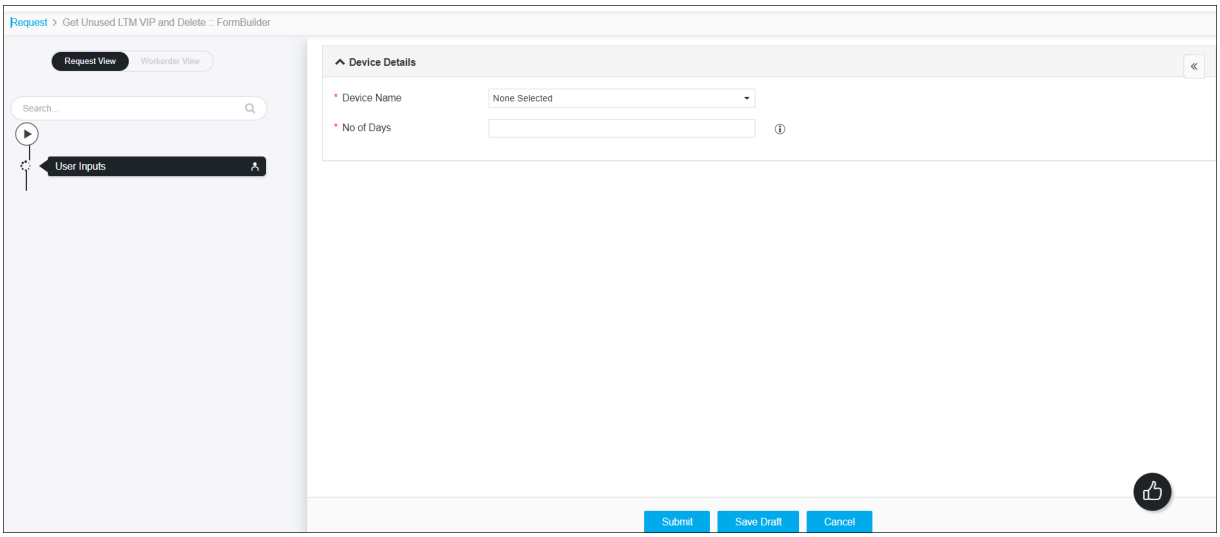


3. In the Workflow Catalog page, hover over the **Get Unused LTM VIP and Delete** workflow.
   The Run and Schedule buttons are shown.

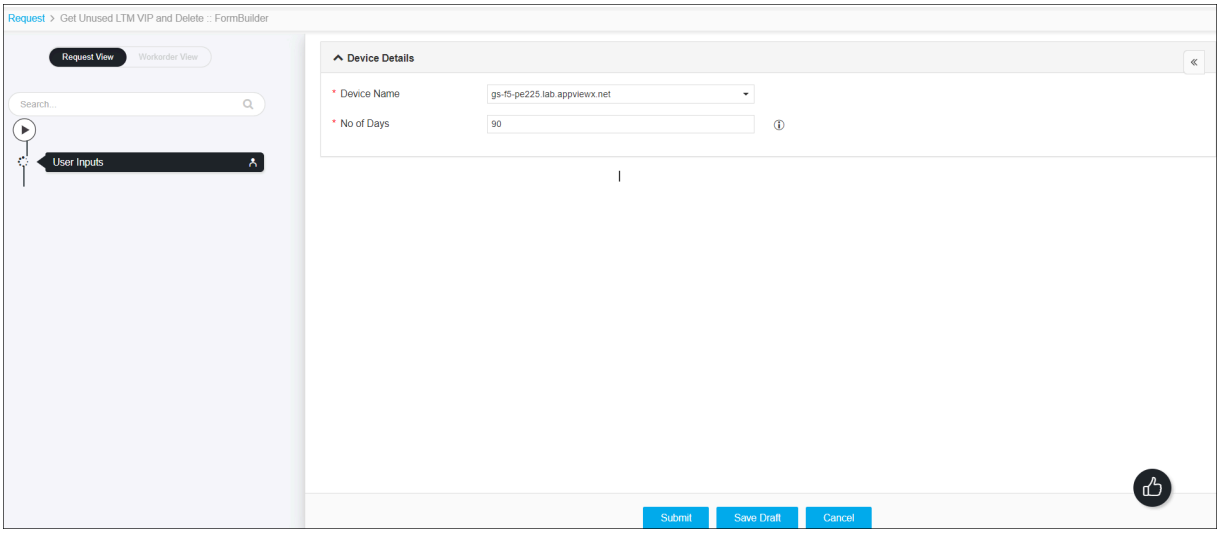


4. Click the Run  button.
   The Form Input page opens:

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5. Select the **Device Name** field, and then enter **No of Days** field.



6. Click the **Submit** button.

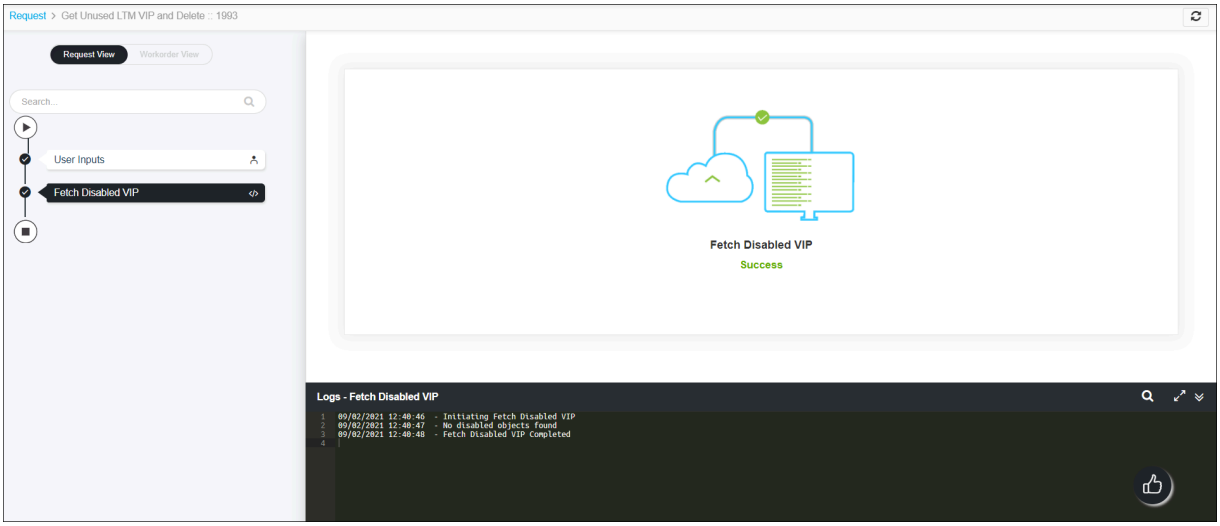
   The Confirmation popup opens.

> **Note:**
>
> - If you want to save this form to edit it later, click the **Save Draft** button, and then click **Ok** in the Confirmation popup window. The form will be saved as Open request under Request > My Request.
> - If you want to cancel this form, click the **Cancel** button.

7. Click **Ok** to submit the form.

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The fetching process is automatically.



8. The unused LTM VIP for the given days is deleted.

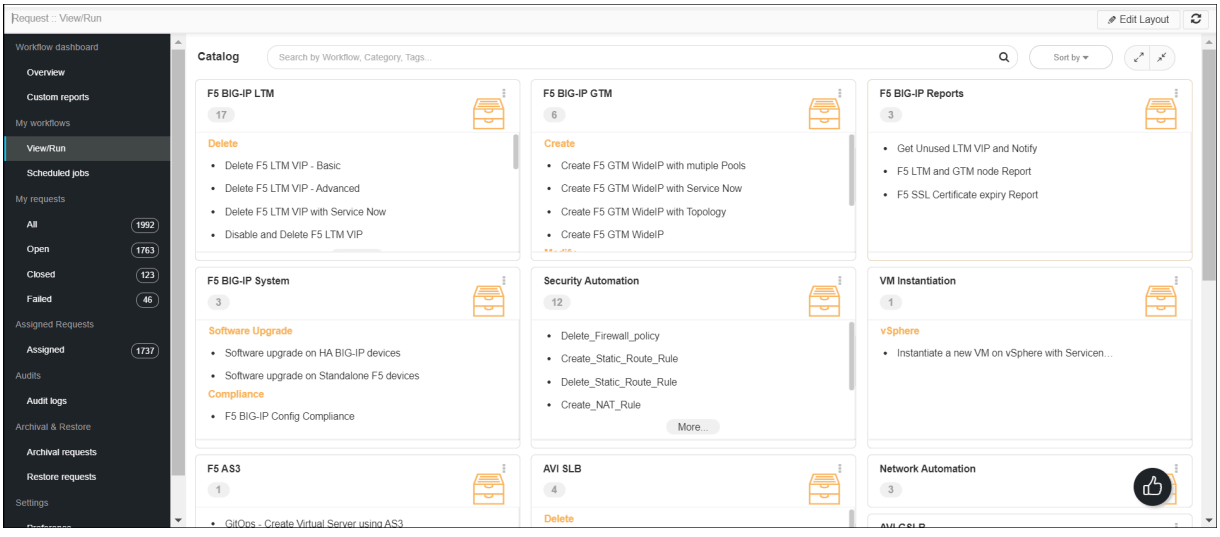
Get Unused LTM VIP and Notify

This workflow fetches the report of VIPs that are unused for ‘n’ number of days.

To run this workflow,

1. Go to ☰ **Menu** > **Request** > **View/Run**.

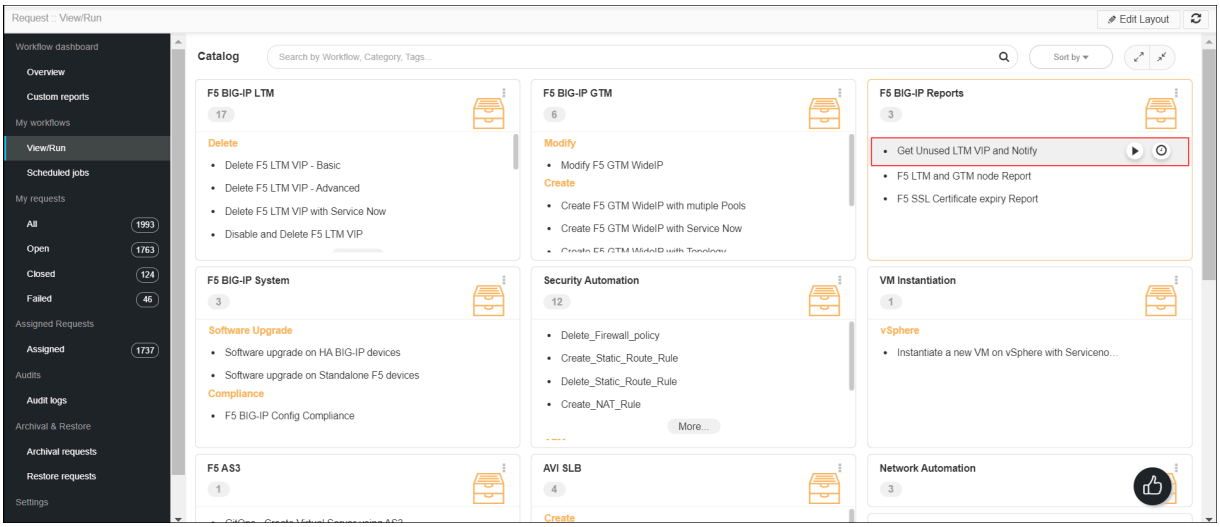
   The Workflow Catalog page appears.



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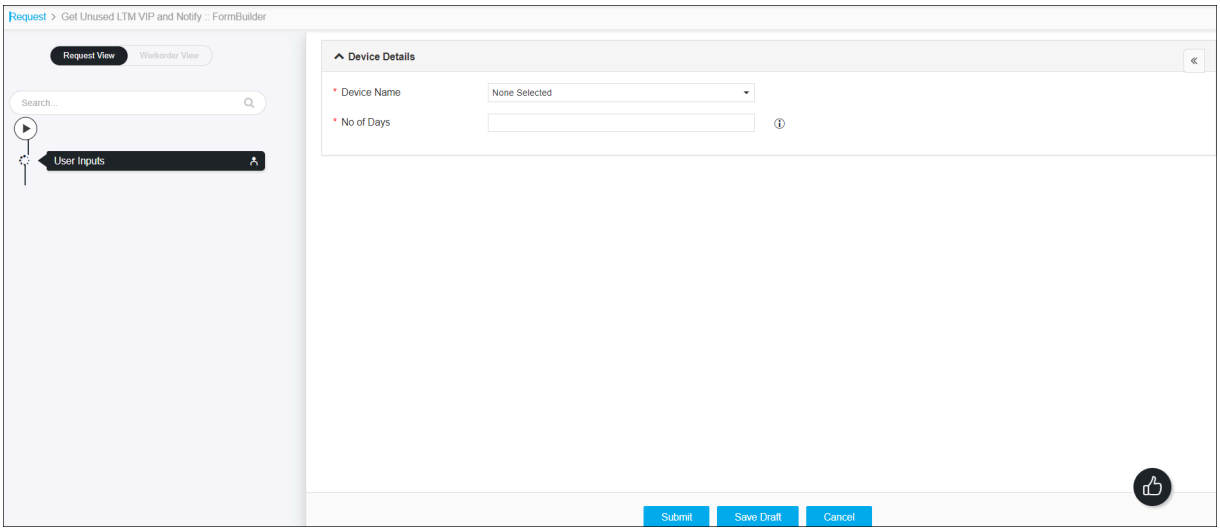
2. In the Workflow Catalog page, hover over the Get Unused LTM VIP and Notify workflow.

   The Run and Schedule buttons showed.



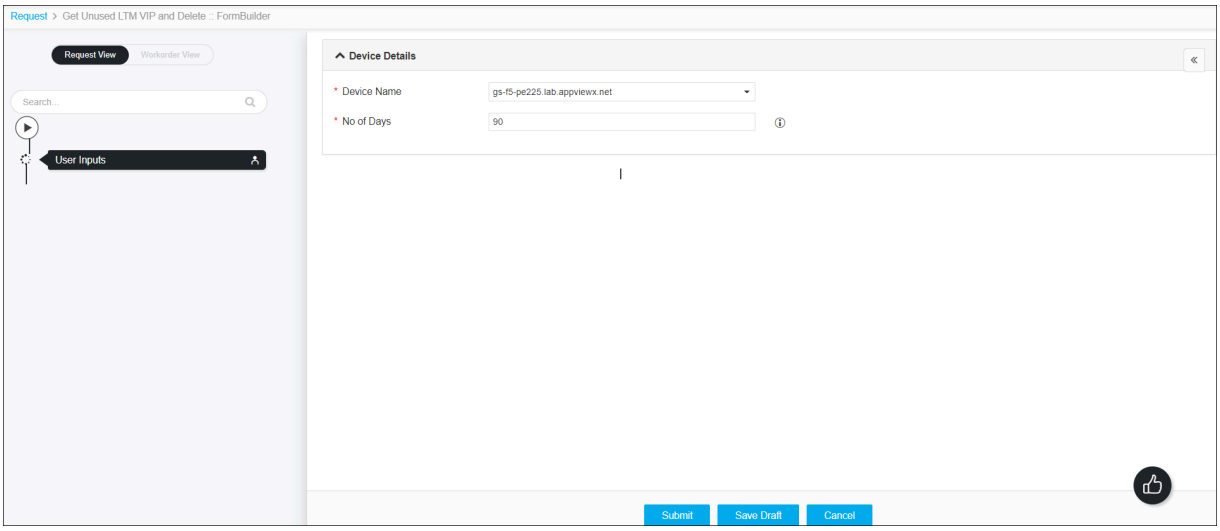
3. Click the Run  button.

   The Form Input page opens:

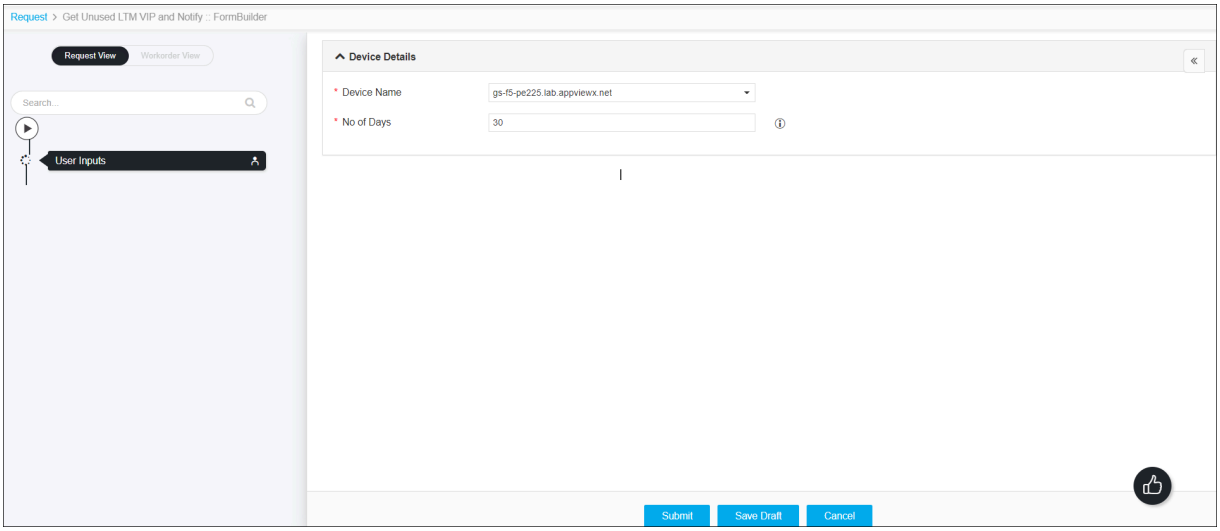


4. Select the **Device Name** field, and then enter the **No of Days** field.

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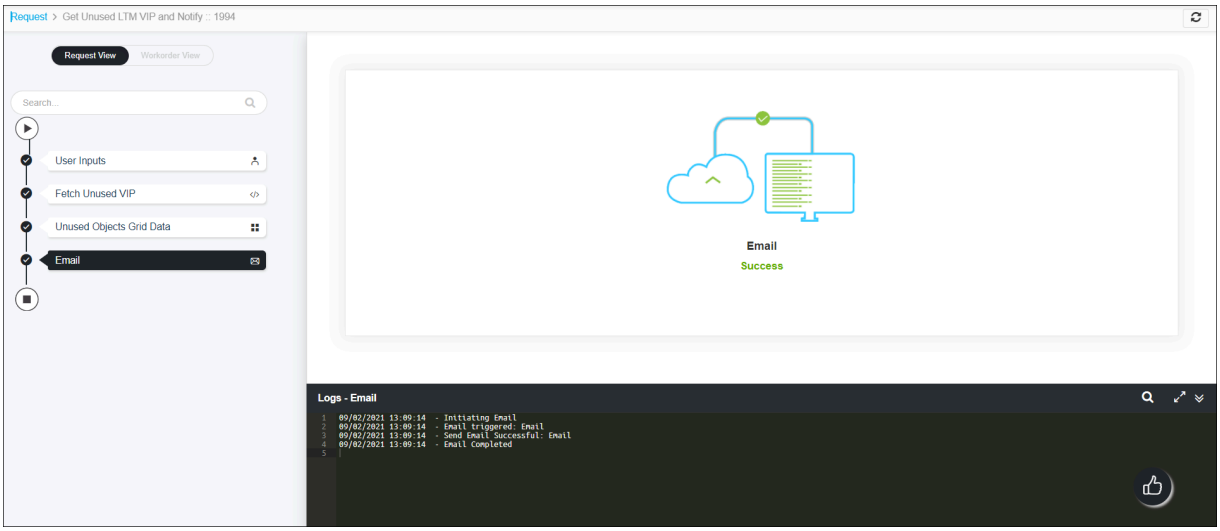


5. Click the **Submit** button.
6. The fetching process is automatically.



7. The unused LTM VIP for the given days is fetched and sent reports via configured email addresses.

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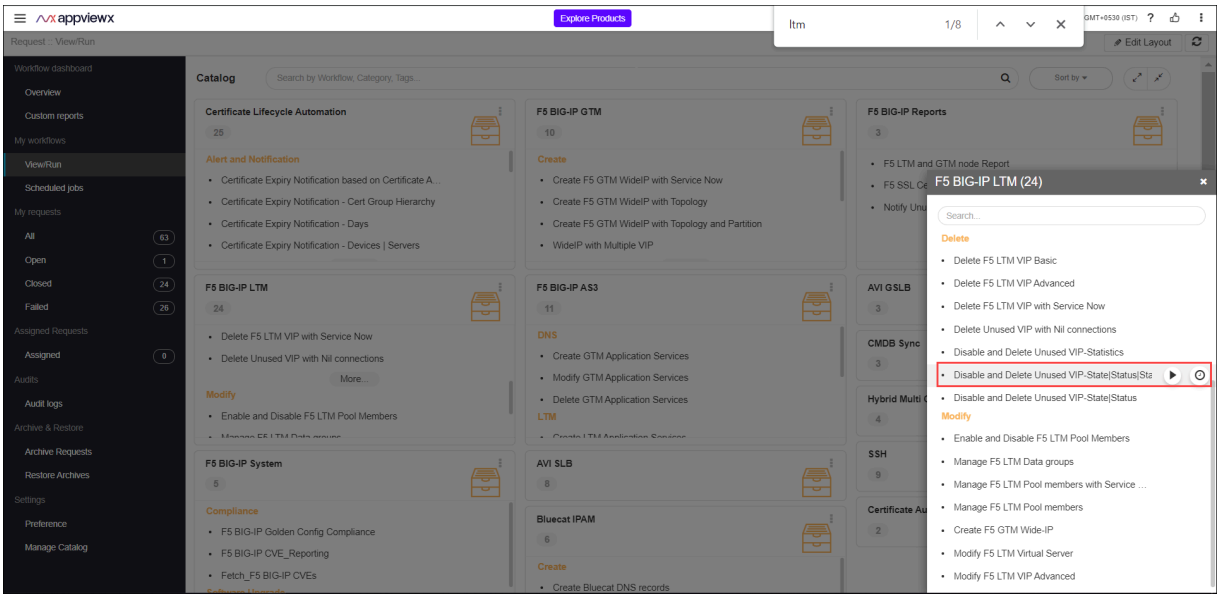


Disable and Delete Unused VIP-State/Status

This workflow fetches the unused VIPs' state and status and then disables or disables and deletes them.

To run this workflow,

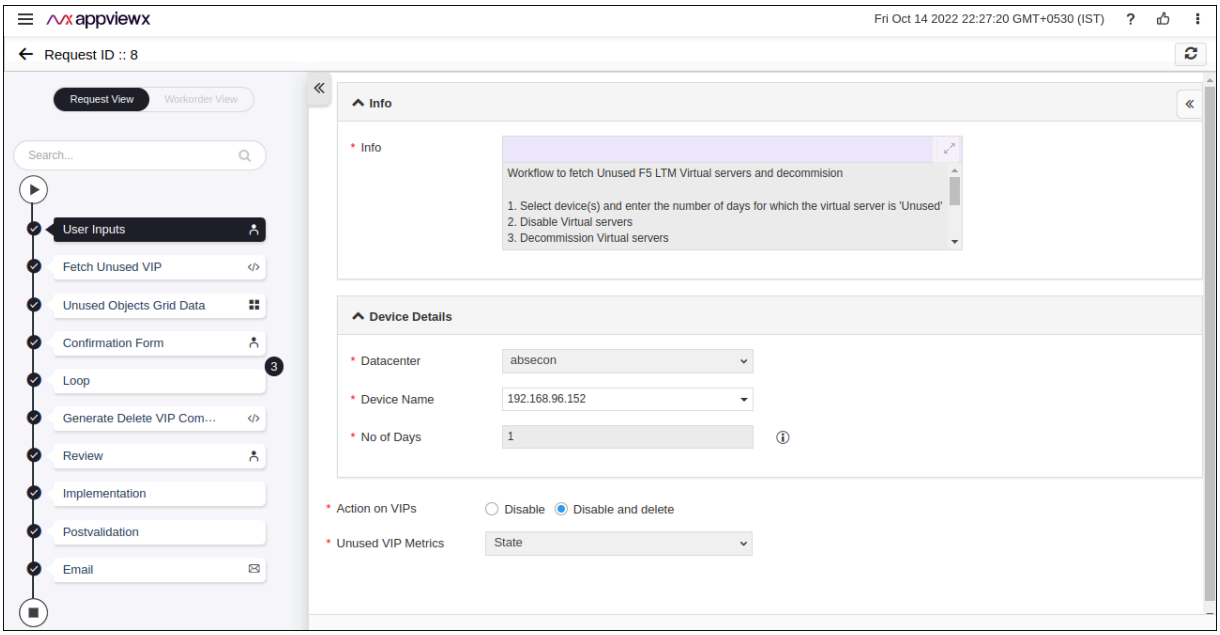
1. Go to ☰ **Menu** > **Request** > **View/Run**.
   The Workflow Catalog page appears.
2. In the Workflow Catalog page, hover over the Disable and Delete Unused VIP-State/Status workflow.
   The Run and Schedule buttons are shown.



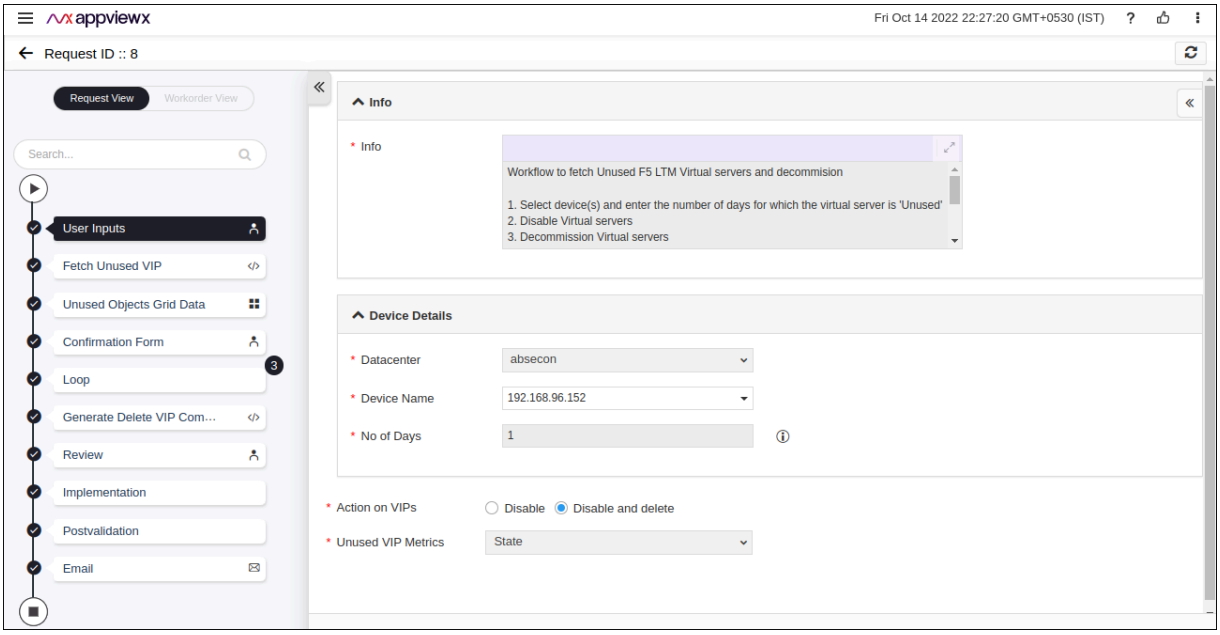
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3. Click the Run  button.

   The Form Input page opens:



4. Enter or select the field information in the Form Input.



5. The following table provides the field description for the Form Input:

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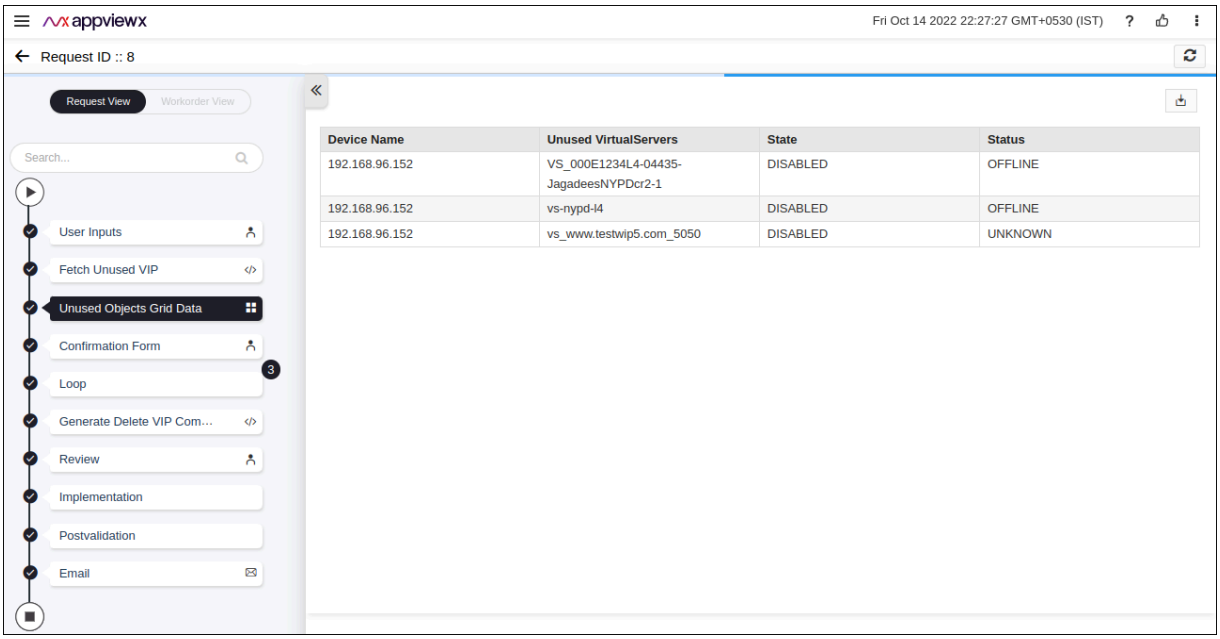
Field	Description
*Datacenter	Displays the list of datacenters of the devices, which are created in the Device Inventory. Select the datacenter of a device from the drop-down option for which this request is to be created. For the devices which are created without a datacenter in the Device Inventory, select the datacenter as **None**.
*Device Name	Displays the list of devices associated with the selected datacenter. If the datacenter is selected as **None**, the devices that are created without datacenter details are listed. Select the desired devices from the drop-down option. **Note:** Selecting multiple devices is possible.
No of Days	Enter the no. of days for which the virtual server's state and status is not used.
*Action on VIPs	The options are: • **Disable** - Choose this option to disable the unused VIPs. • **Disable and Delete** - Choose this option to disable and delete the unused VIPs.
*Unused VIP Metrics	Choose the VIP's metrics for which the unused VIP has to be fetched.

6. Click the **Submit** button.
   The Confirmation popup opens.

Note:
- If you want to save this form to edit it later, click the **Save Draft** button, and then click **Ok** in the Confirmation popup window. The form will be saved as Open request under **Request** > **My Request**.
- If you want to cancel this form, click the **Cancel** button.

7. Click **Ok** to submit the form.
   The fetching unused VIPs starts automatically and reaches the **Unused Objects Grid Data** stage.

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Note:

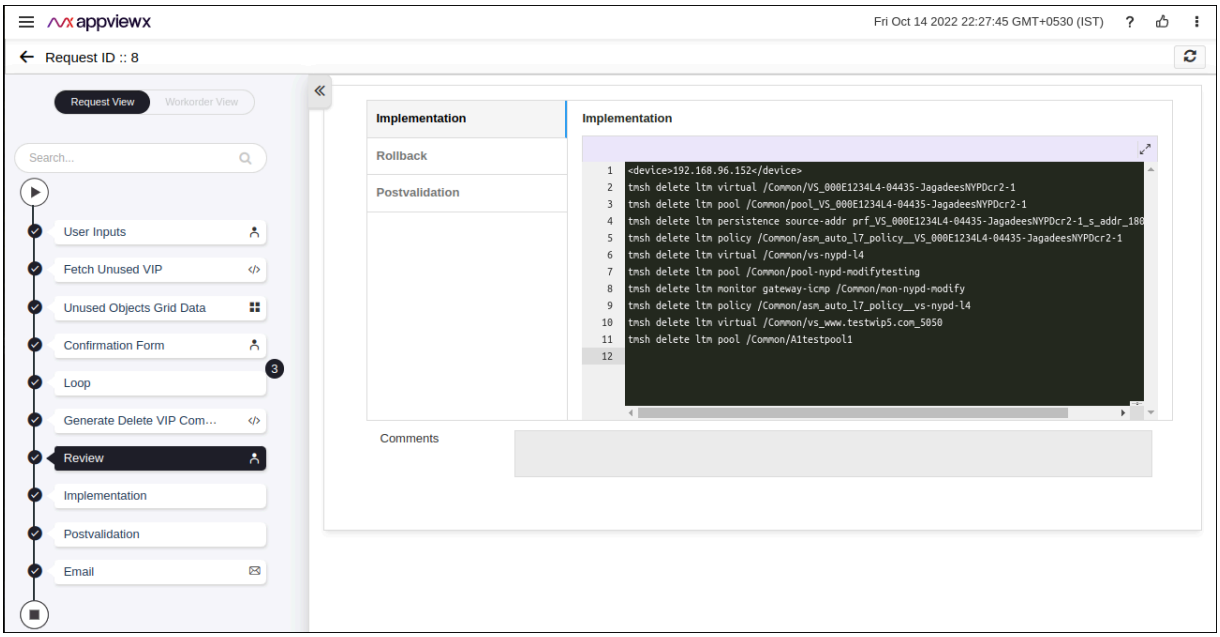
- If there is any failure at this stage, start a new request by providing the correct data.
- Alternatively, select the failed request and clone it. Update the correct input data in the form input, and submit the workflow again.
- To download the Unused Objects Grid Data report, click the Download ( ) button.

8. Click the **Submit** button.

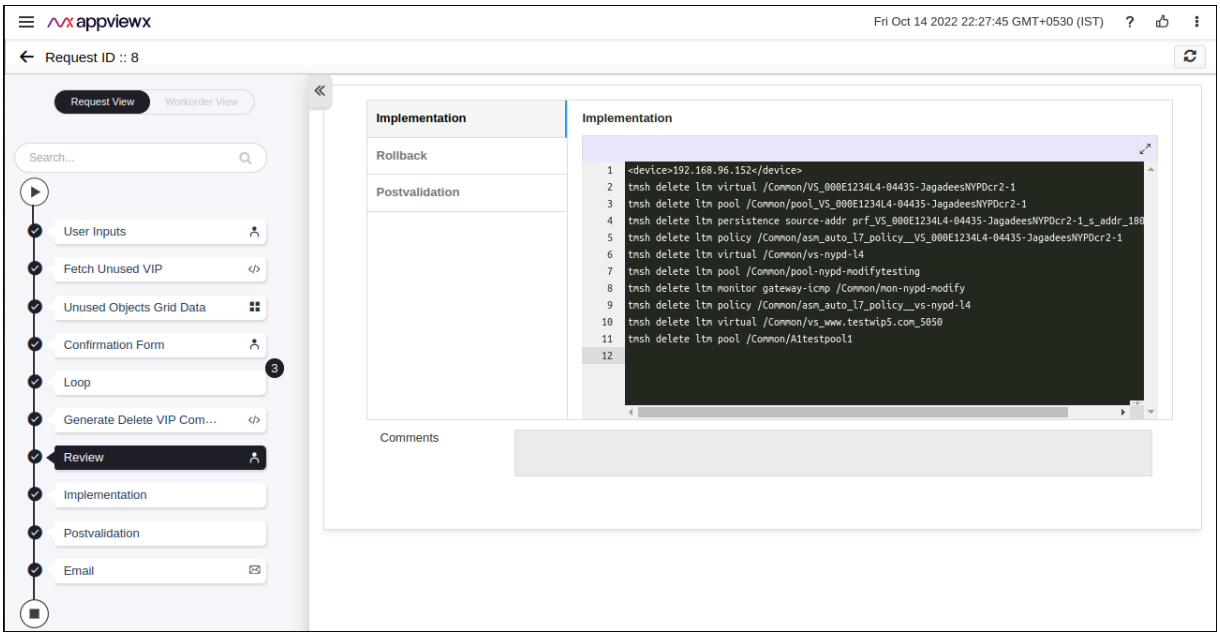
   The Confirmation popup opens.
9. Click **Ok** to submit the form.

   The validation starts automatically and reaches the **Review** stage.
10. Review the input data under the **implementation**, **rollback**, and **postvalidation** tabs:

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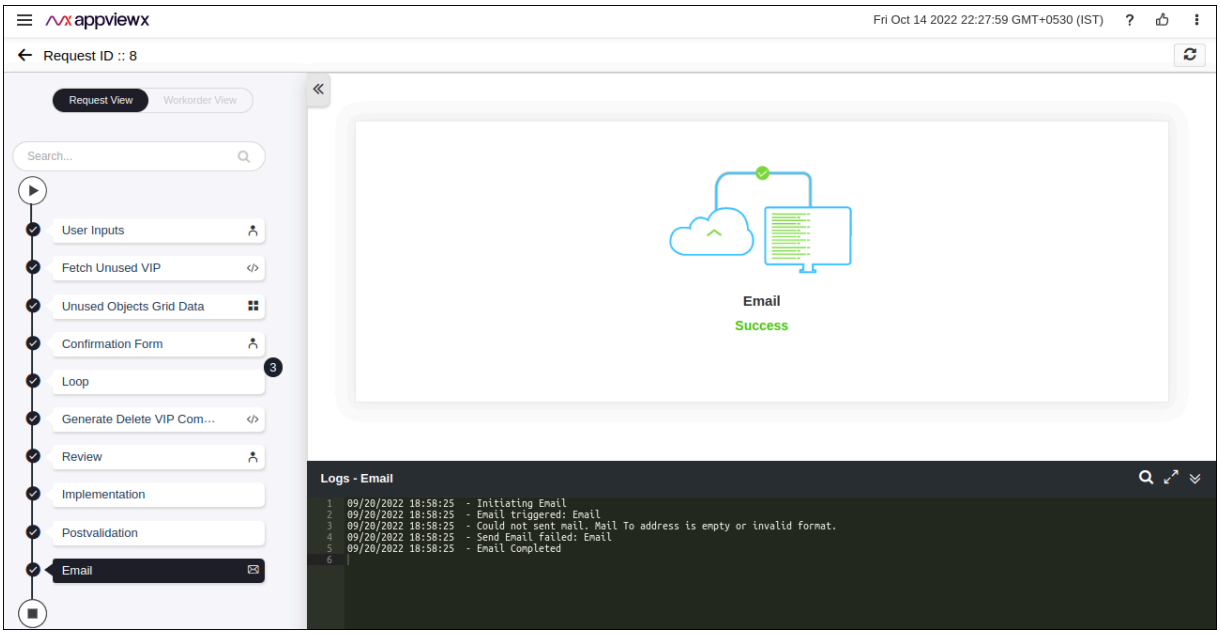
11. (Optional) If you need to update any data at this stage, you can do so by clicking the right side of the mouse on the data and selecting the desired option.



12. After the review, click the **Submit** button.

    The implementation process starts and reaches the **Review** stage.
13. The workflow is created and the email is triggered to the configured email IDs.

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Note: The stages of the request are shown in the left-side of the screen. To view a particular stage of the request, click the respective stage.

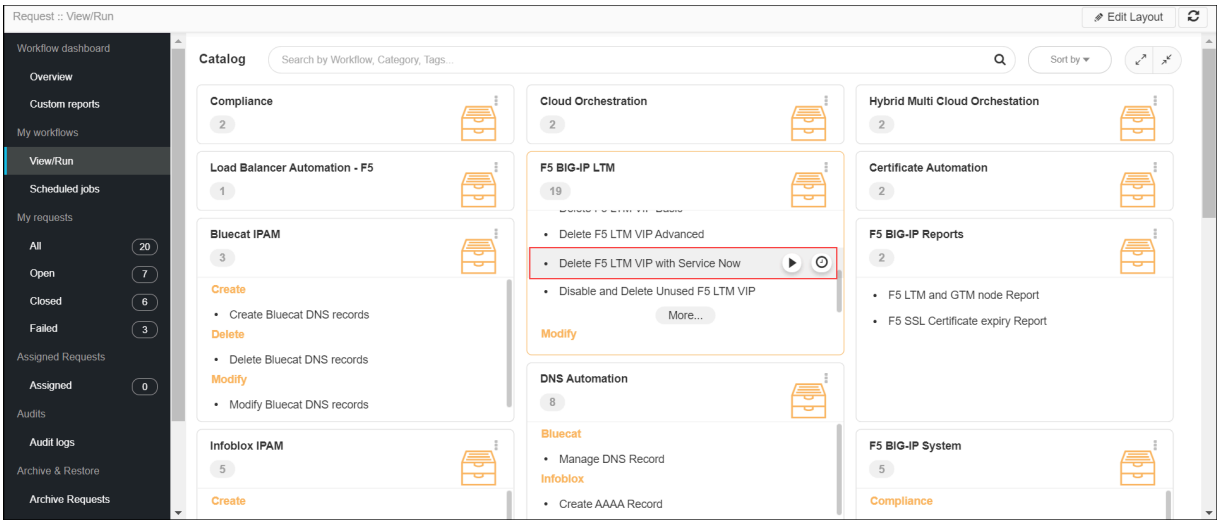
Delete F5 LTM VIP with Service Now

This workflow deletes VIP along with its associated objects(Pool, Monitor, IRule, Profiles, Persistence, Snatpool, Policy) and multi-select the associated object types to consider for deletion.

To run this workflow,

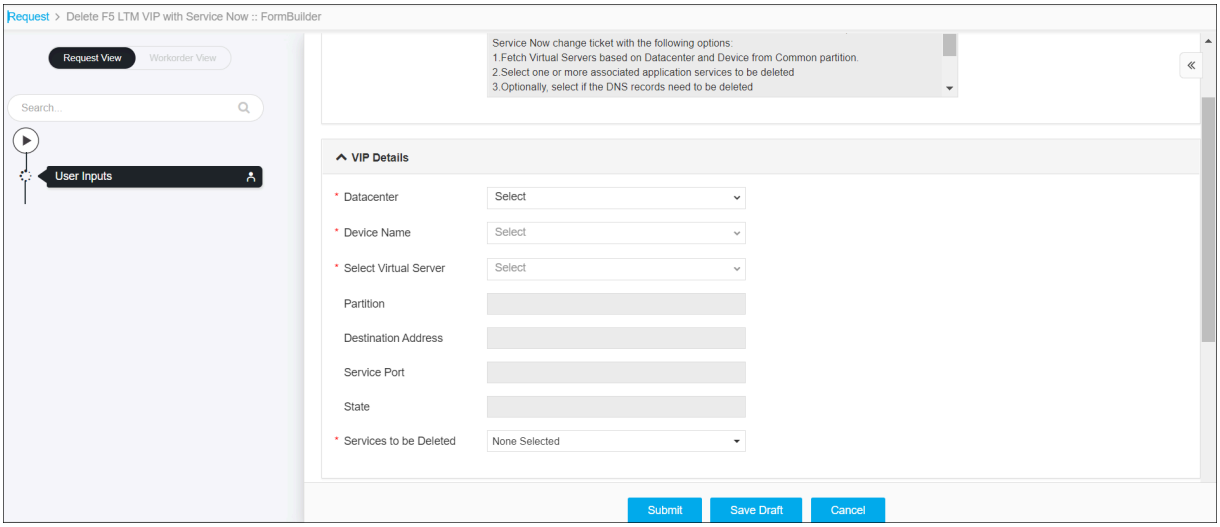
1. Go to **Menu** > **Request** > **View/Run**.
   The Workflow Catalog page appears.
2. In the Workflow Catalog page, hover over the Delete F5 LTM VIP with Service Now workflow.
   The Run and Schedule buttons are shown.

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3. Click the Run  button.

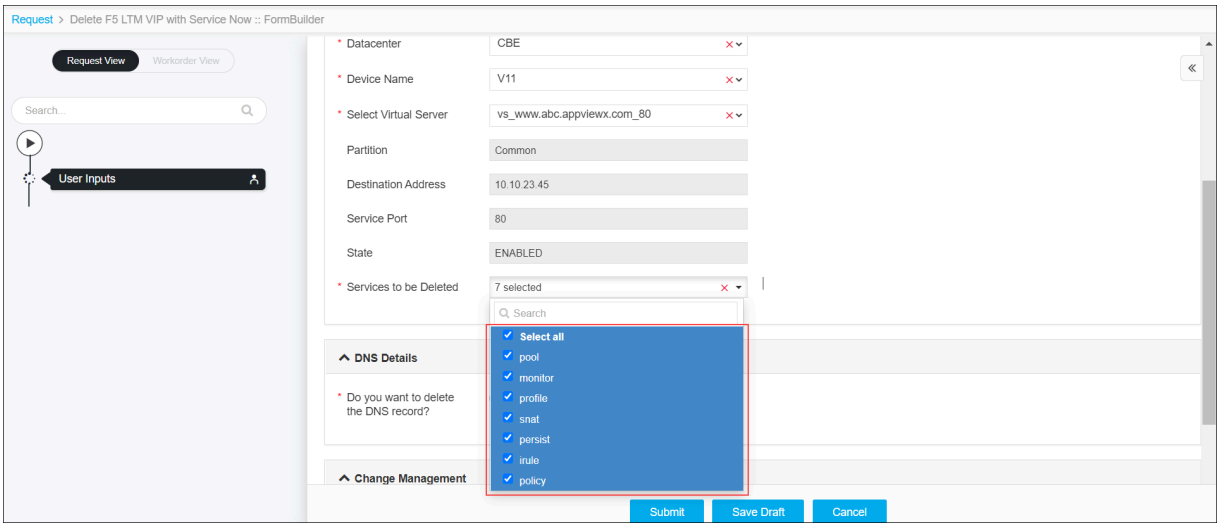
   The Form Input page opens:



4. Select **Datacenter**, **Device Name**, and then select **Virtual Server** from the drop-down list.

   The services that are associated with the selected device are displayed.

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5. Select all the services of the device or select/clear only the services of the devices that are to be deleted.
6. Select the **DNS Details** and **Change Management** details of the device, if DNS details and change management details of the device are required to be deleted.
7. Click the **Submit** button.
   The Confirmation popup opens.

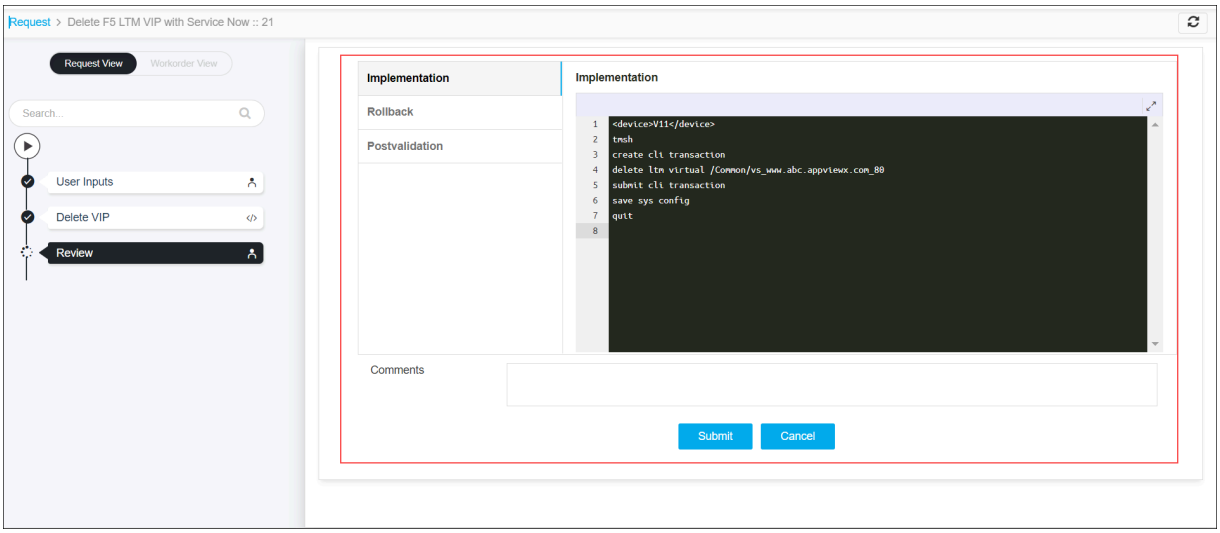
> **Note:**
> - If you want to save this form to edit it later, click the **Save Draft** button, and then click **Ok** in the Confirmation popup window. The form will be saved as Open request under **Request** > **My Request**.
> - If you want to cancel this form, click the **Cancel** button.

8. Click **Ok** to submit the form.
   The validation starts automatically and reaches the Disable Review stage.

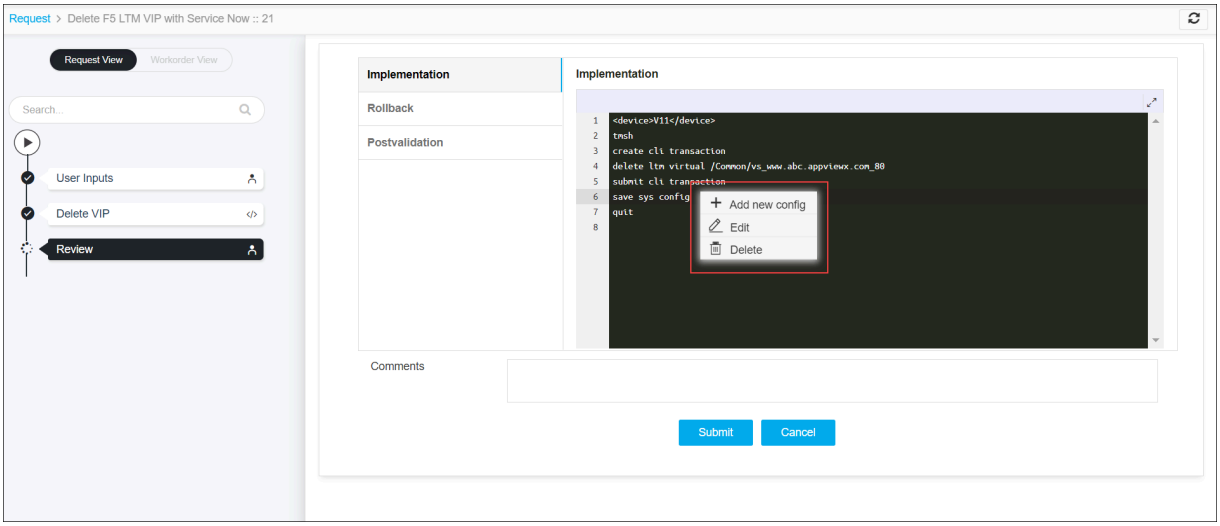
> **Note:**
> - If there is any failure at this stage, start a new request by providing the correct data.
> - Alternatively, select the failed request and clone it. Update the correct input data in the form input, and submit the workflow again.

9. Review the input data under the **implementation**, **rollback**, and **postvalidation** tabs:

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10. (Optional) If you need to update any data at this stage, you can do so by clicking the right side of the mouse on the data and selecting the desired option.



11. After the review, click the **Submit** button.

    The Confirmation popup opens.

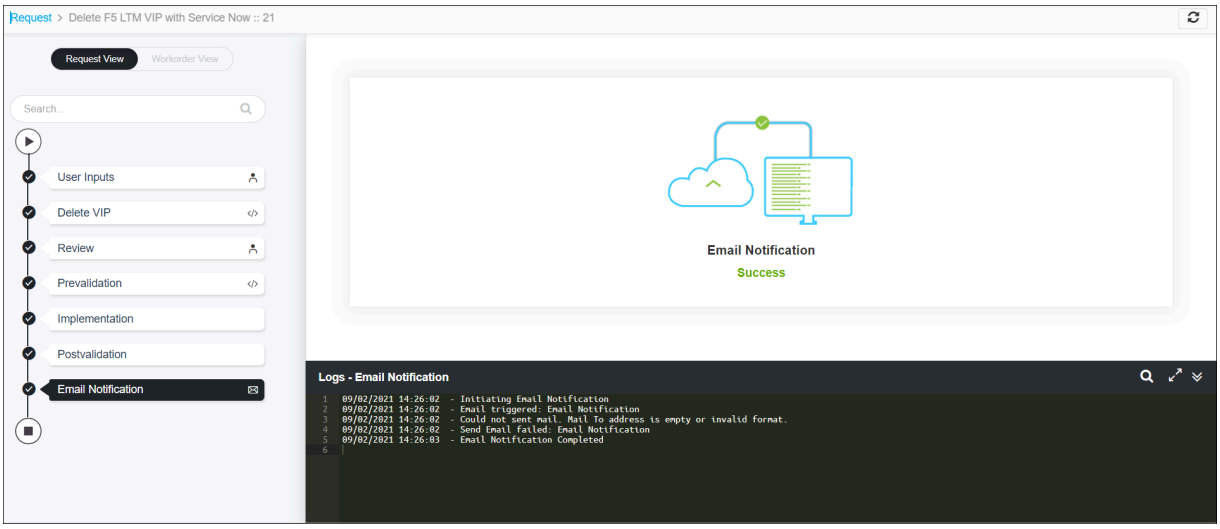
> **Note:** To stop running the workflow creation, Click **Cancel**.

12. Click **Ok** to continue the workflow creation.

    It takes a while to complete the request.

13. The workflow is created and the email is triggered to the configured email IDs.

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Note: The stages of the request are shown in the left side of the screen. To view a particular stage of the request, click the respective stage.

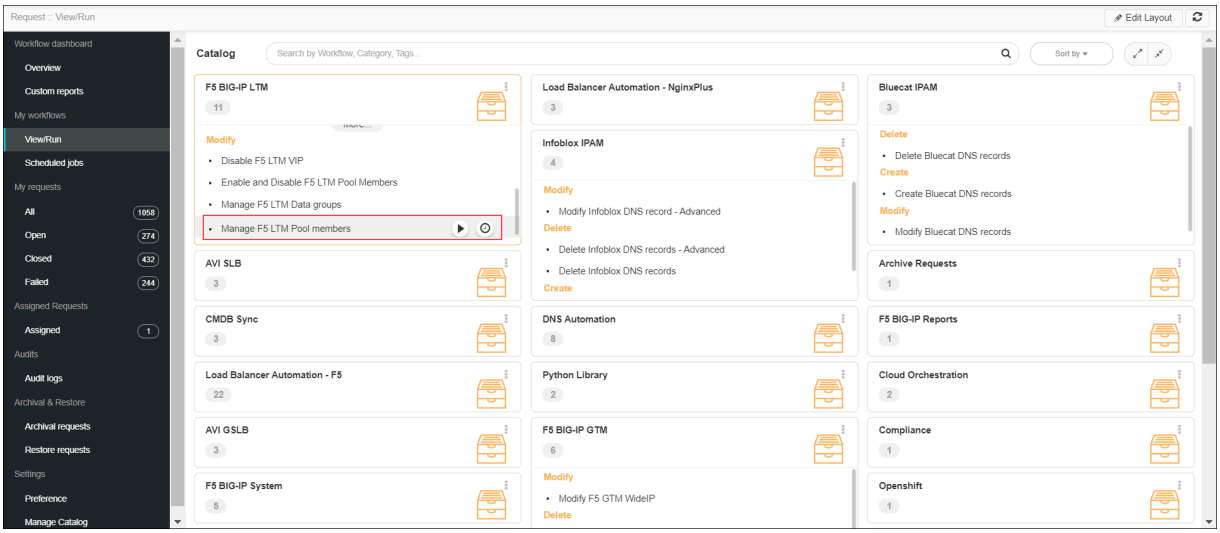
Manage F5 LTM Pool Members

This workflow selects VIP in a device and modifies (add/delete) associated pool members.

To run this workflow,

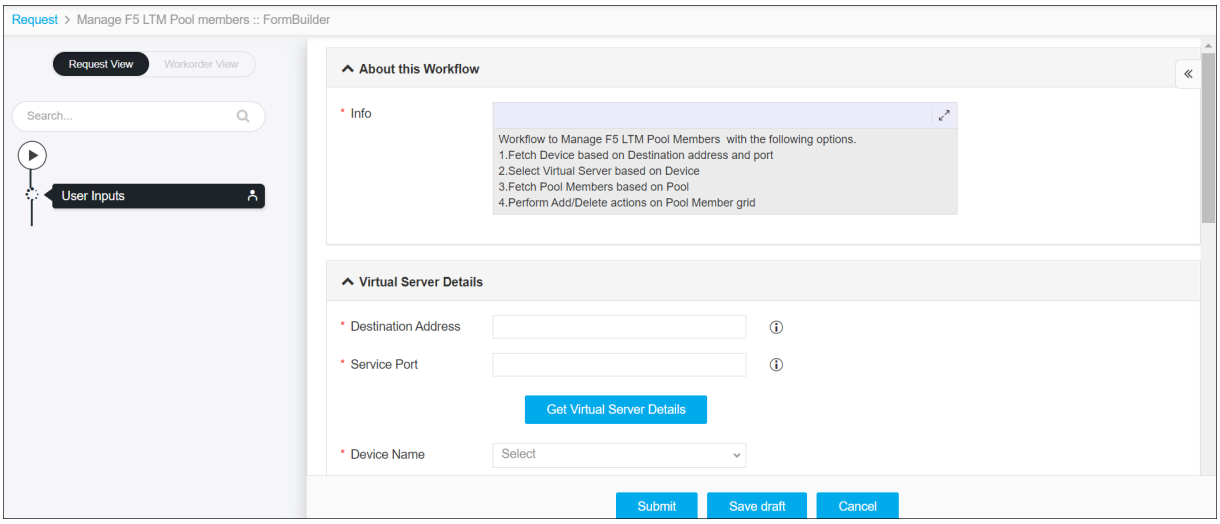
1. Go to ☰ **Menu** > **Request** > **View/Run**.
   The Workflow Catalog page appears.
2. In the Workflow Catalog page, you hover over the **Manage F5 LTM Pool members** workflow.
   The Run and Schedule buttons are shown.

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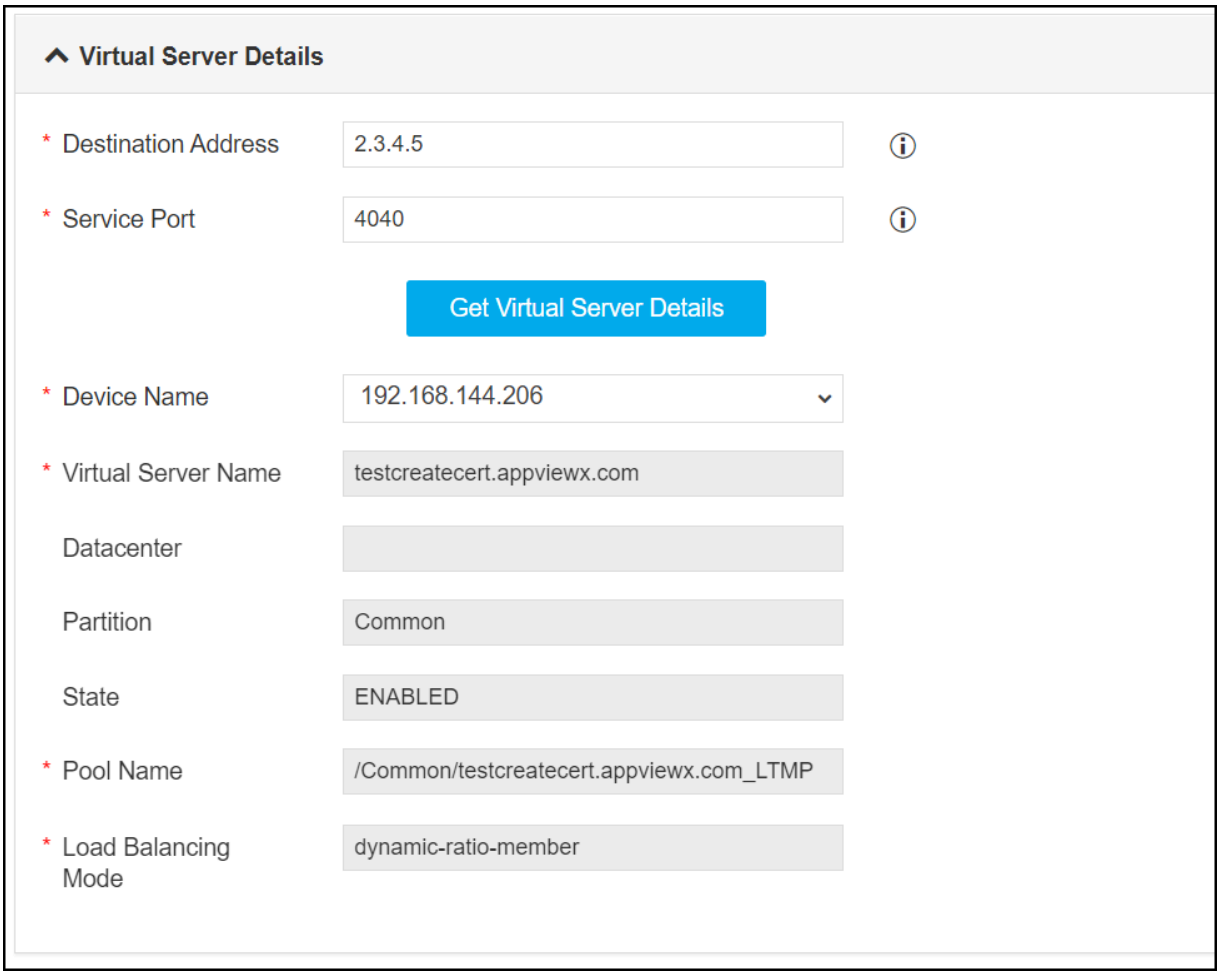
3. Click the Run  button.

   The Form Input page opens:



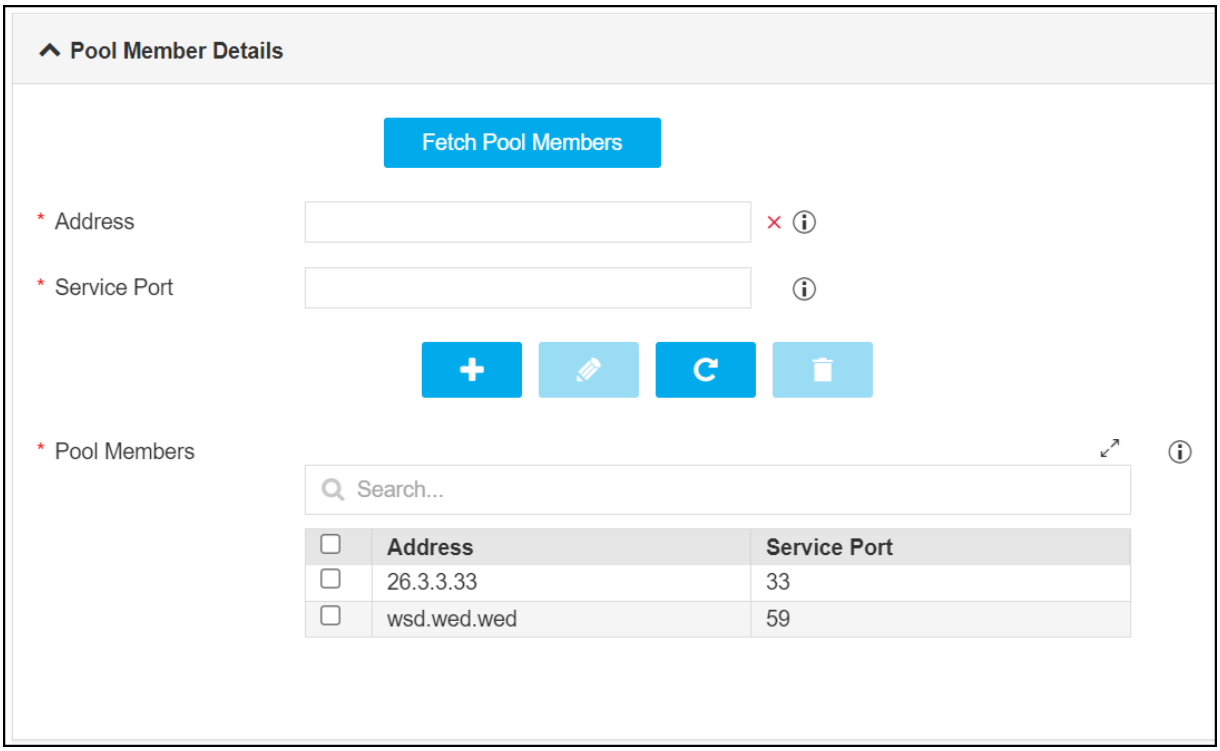
4. Enter the valid IP address and port number in the **Destination Address** and **Service Port** field in the **Virtual Server Details** section of Form Input.

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5. Click the **Get Virtual Server Details** button.
   The devices are loaded.
6. Select the device name from the **Device Name** drop-down option. The other details of the device are retrieved automatically.
7. Click the **Fetch Pool Members** button to get the pool member of the selected device or manually enter the pool member details.

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8. Click the **Submit** button.

   The Confirmation popup opens.

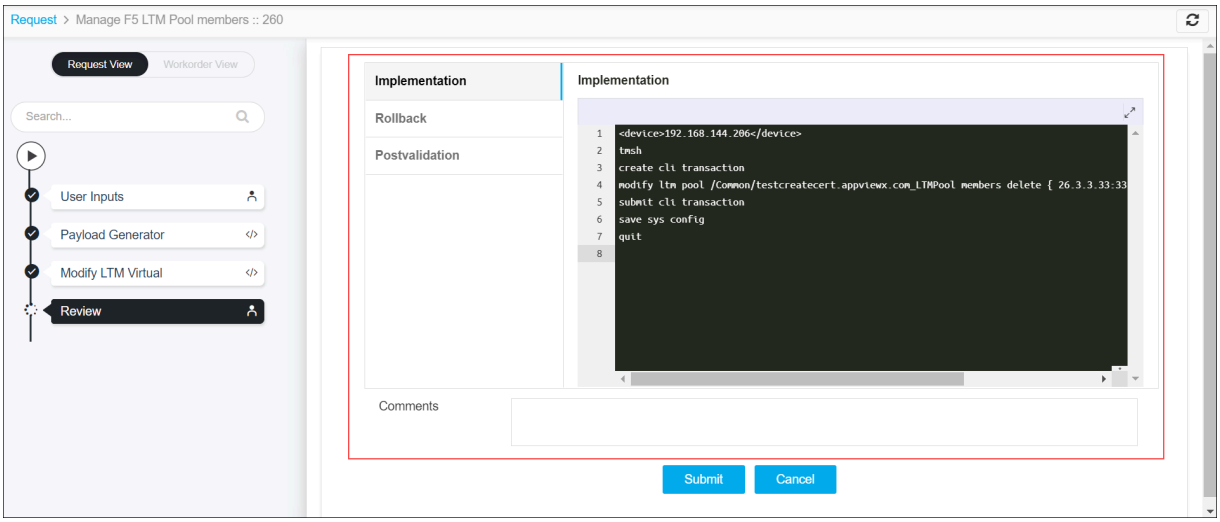
> **Note:**
>
> - If you want to save this form to edit it later, click the **Save Draft** button, and then click **Ok** in the Confirmation popup window. The form will be saved as Open request under **Request** > **My Request**.
> - If you want to cancel this form, click the **Cancel** button.

9. Click **Ok** to submit the form.

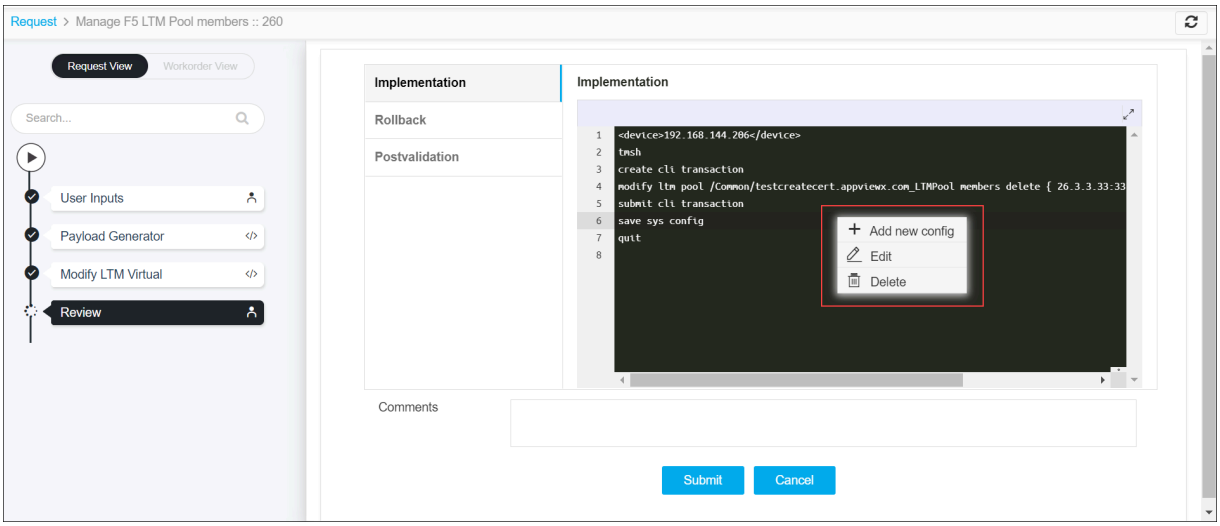
   The pre-validation starts automatically and reaches the **Review** stage.

10. Review the input data under the **implementation**, **rollback**, and **postvalidation** tabs:

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11. (Optional) If you need to change any data at this stage, you can update by clicking the right-side of the mouse on the data.

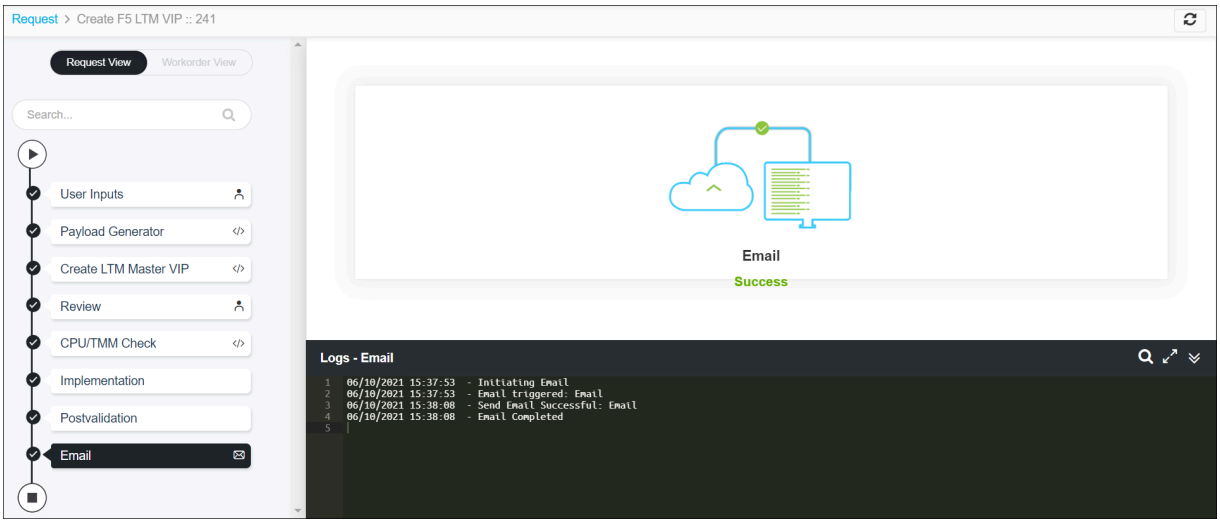


12. After the review, click the **Submit** button.
    The Confirmation popup opens.

> **Note:** To stop running the workflow creation, click **Cancel**.

13. Click **Ok** to continue the workflow creation.
    It takes a while to complete the post-validation.
14. After the successful post-validation, the workflow is created and the email triggered to the configured email IDs.

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Note: The validation stages are shown in the left side of the screen. To view any validation stage, click on the respective stage.

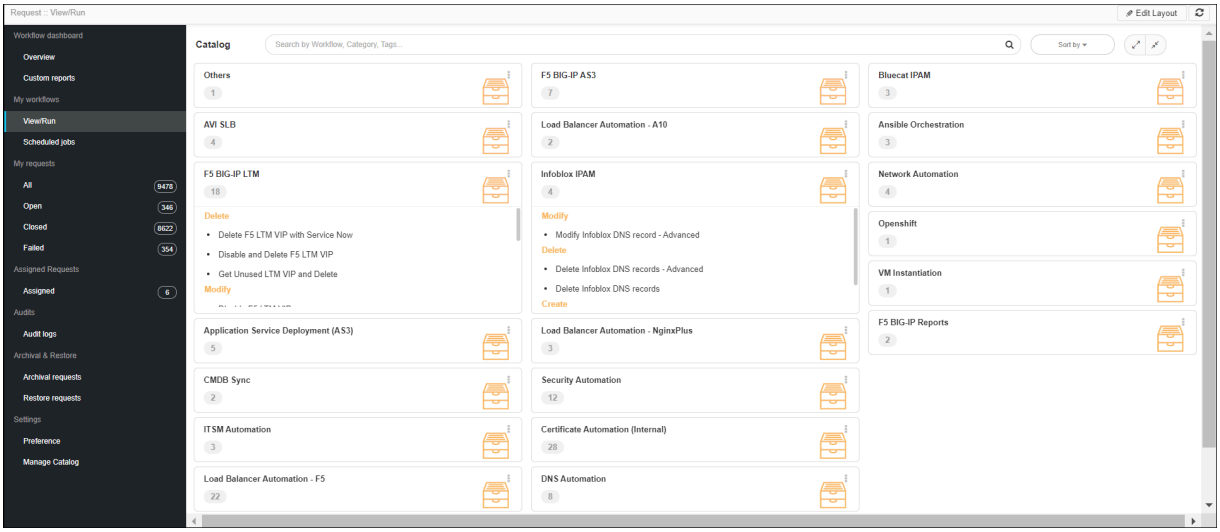
Manage F5 LTM Pool members with Service Now

This workflow selects VIP in a device and modifies (add/delete) associated pool members.

To run this workflow,

1. Go to ☰ **Menu** > **Request** > **View/Run**.

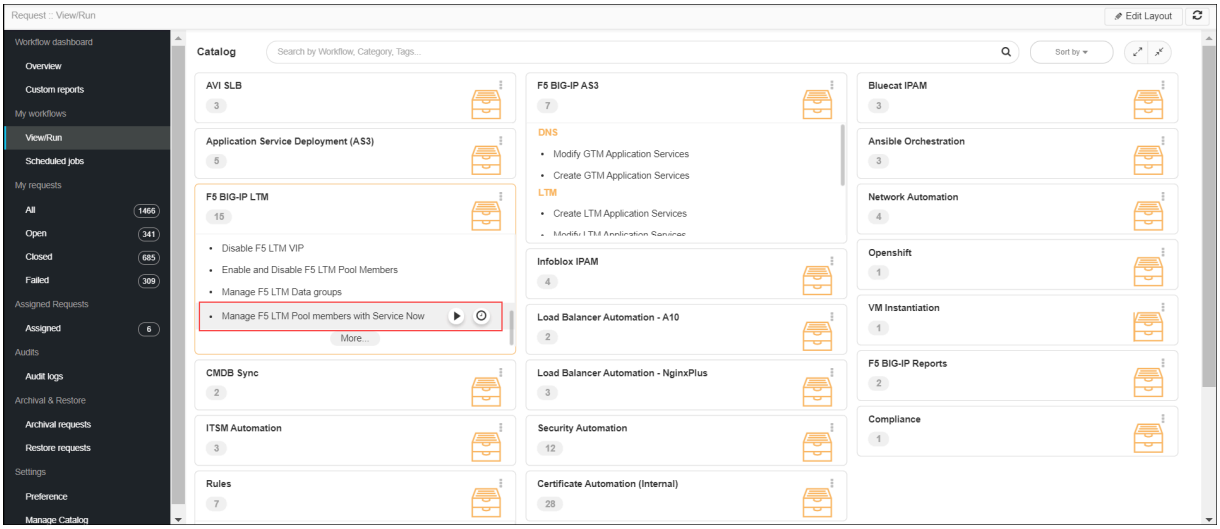
   The Workflow Catalog page appears.



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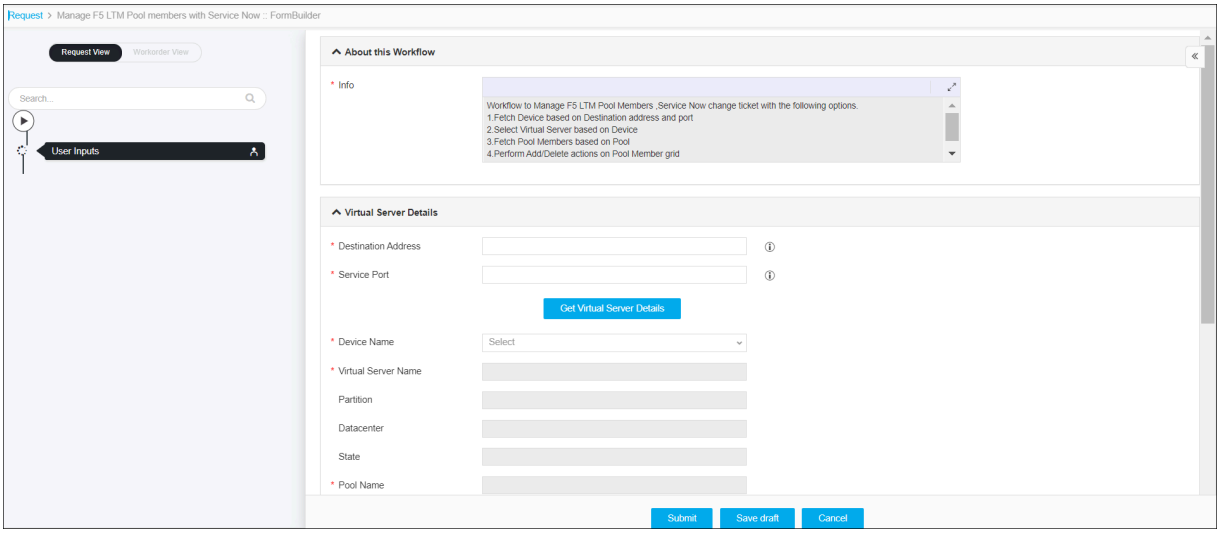
2. In the Workflow Catalog page, hover over the **Manage F5 LTM Pool members with Service Now** workflow.

   The Run and Schedule buttons are shown.



3. Click the Run  button.

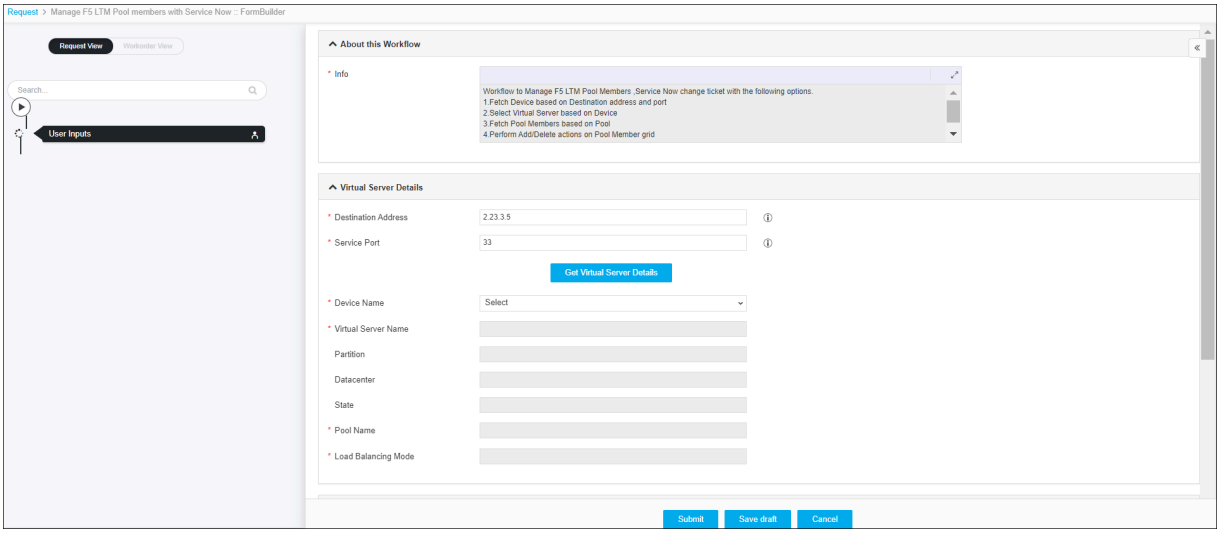
   The Form Input page opens:



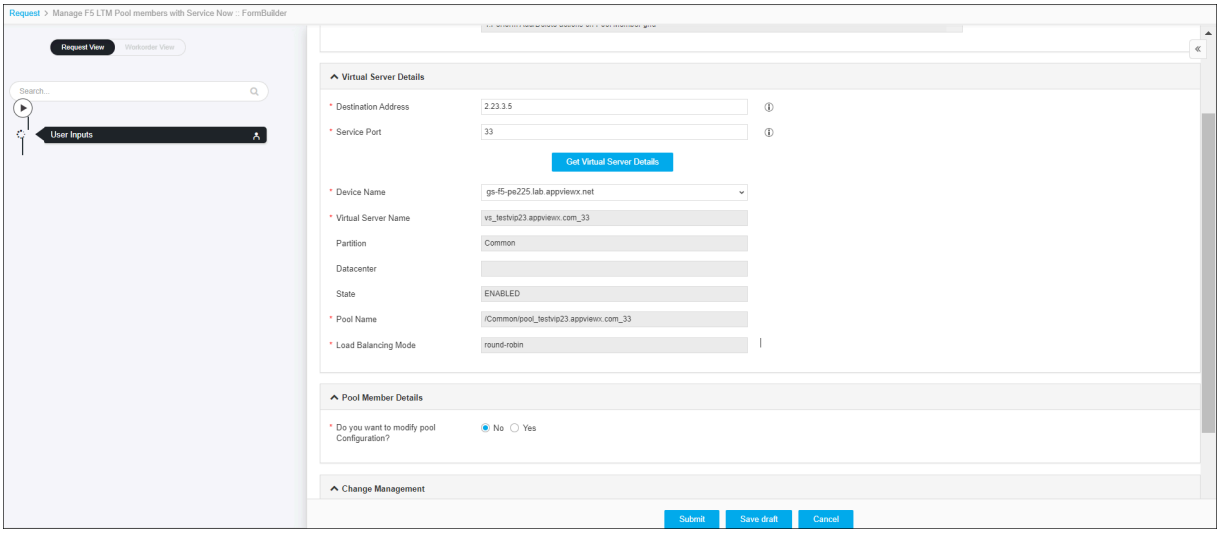
4. Enter the valid IP address and port number in the **Destination Address** and **Service Port** field in the **Virtual Server Details** section of Form Input.
5. Click the **Get Virtual Server Details** button.
6. The devices are loaded.

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The devices are fetched for the given destination address:

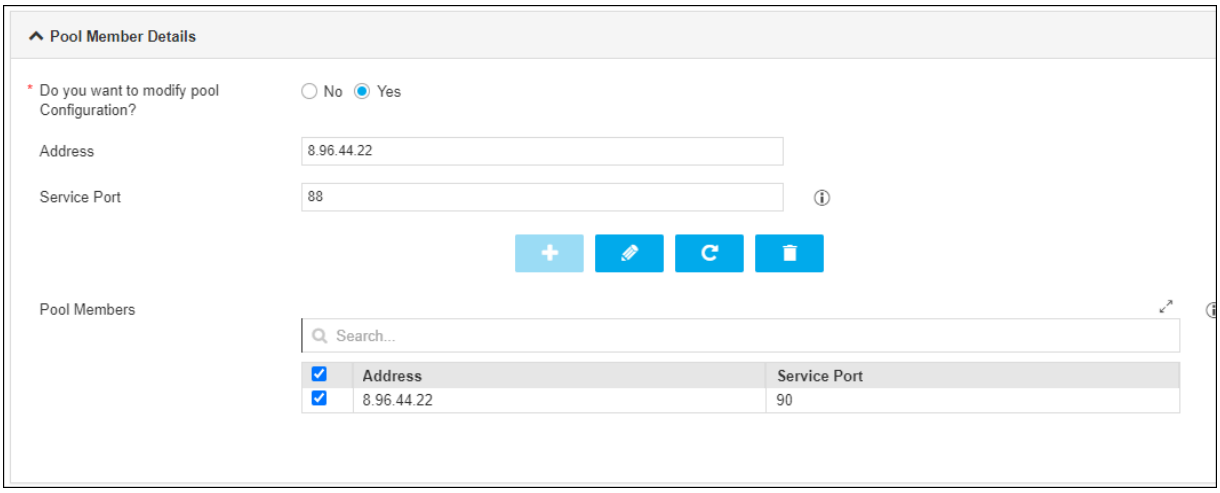


7. Select the device from the **Device Name** drop-down list.
8. The virtual server details and pool details are fetched for the selected device.

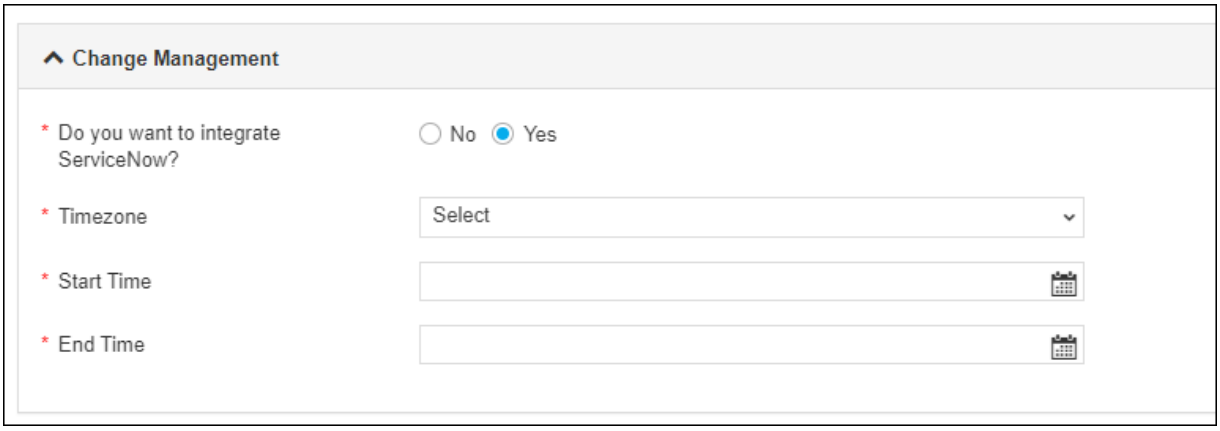


9. Update the **Pool Member Details** as required.

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10. Update the **Change Management** details as required.



11. Click the **Submit** button.

    The Confirmation popup opens.

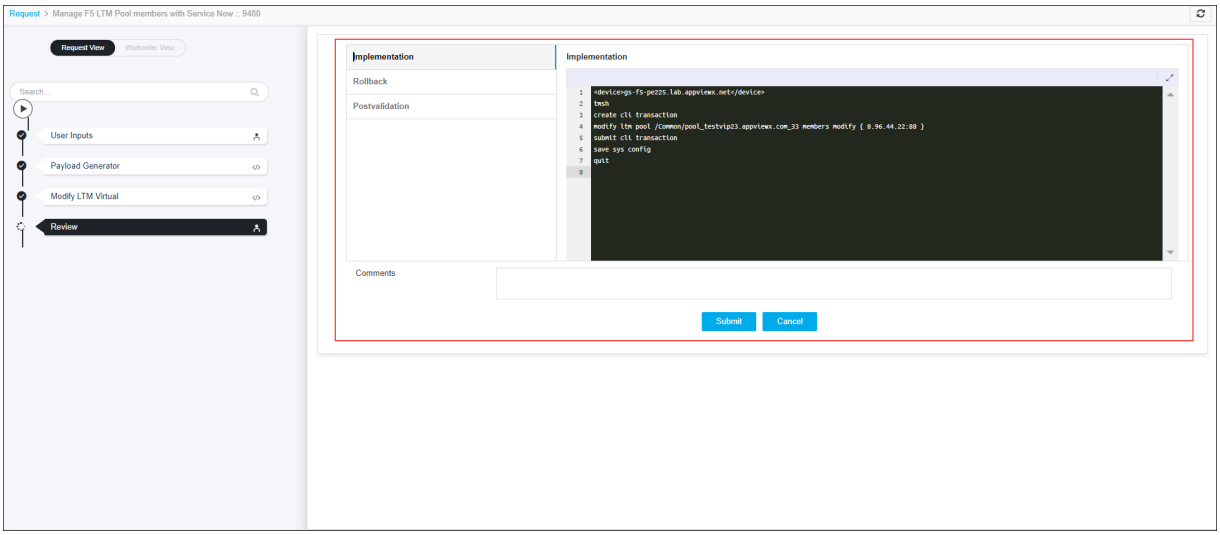
> **Note:**
> - If you want to save this form to edit it later, click the **Save Draft** button, and then click **Ok** in the Confirmation popup window. The form will be saved as Open request under **Request** > **My Request**.
> - If you want to cancel this form, click the **Cancel** button.

12. Click **Ok** to submit the form.

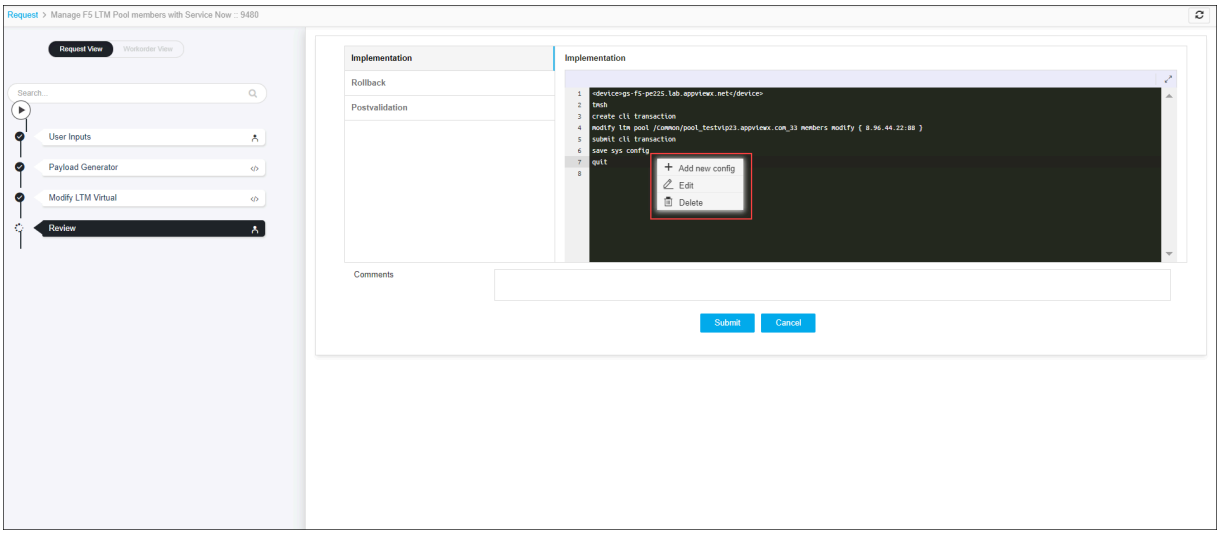
    The pre-validation starts automatically and reaches the **Review** stage.

13. Review the input data under the **implementation**, **rollback**, and **postvalidation** tabs:

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14. (Optional) If you need to change any data at this stage, you can update by clicking the right side of the mouse on the data.

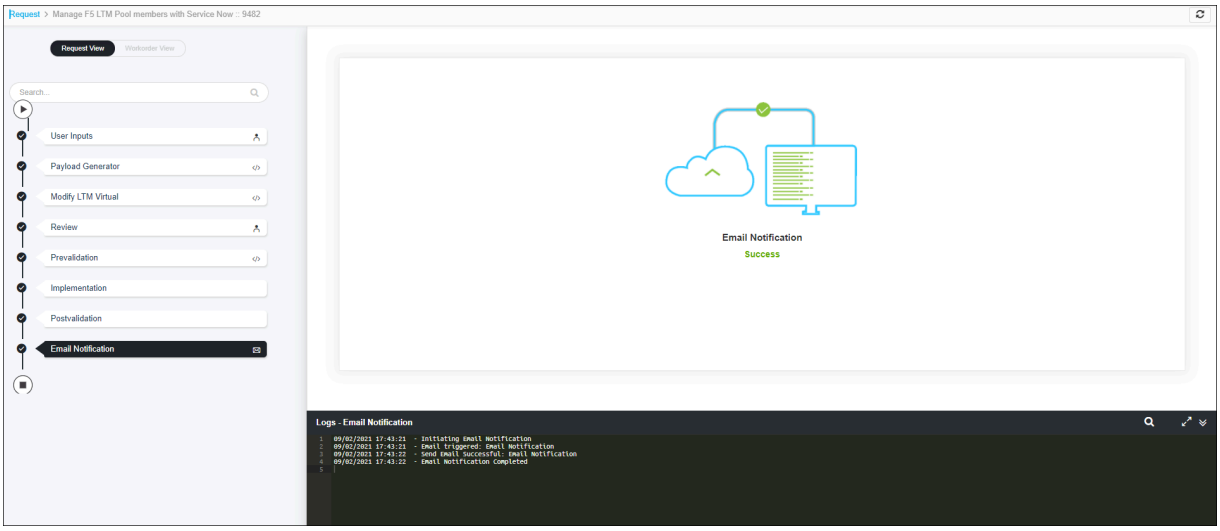


15. After the review, click the **Submit** button.
    The Confirmation popup opens.

> **Note:** To stop running the workflow creation, click **Cancel**.

16. Click **Ok** to continue the workflow creation.
    It takes a while to complete the post-validation.
17. After the successful post-validation, the workflow is created and the email triggered to the configured email IDs.

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Note: The validation stages are shown in the left side of the screen. To view any validation stage, click on the respective stage.

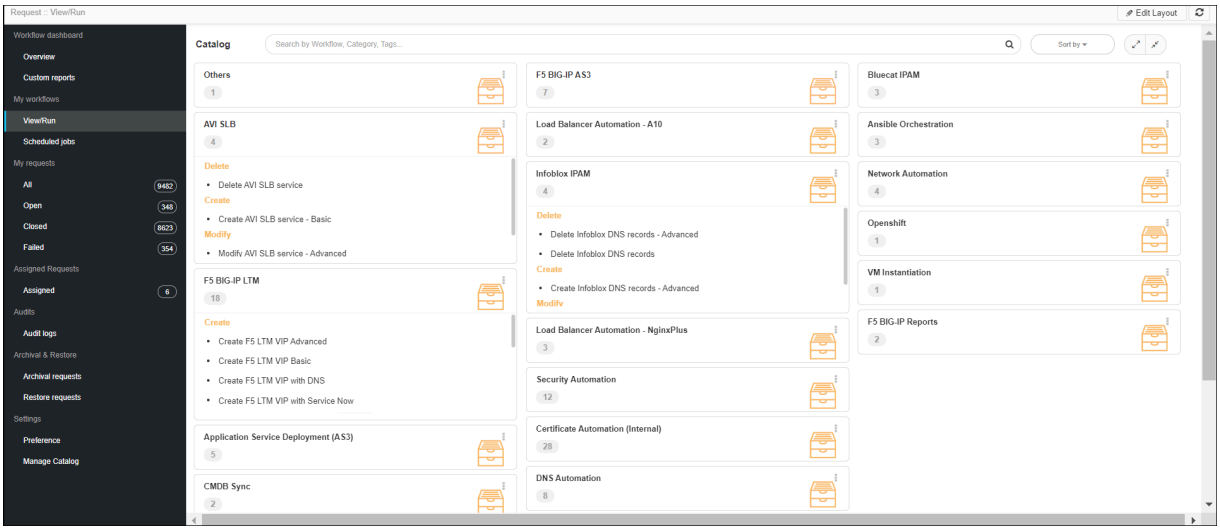
Modify F5 LTM VIP Advanced

This workflow modifies VIP along with its associated objects(Pool, Monitor, IRule, Profiles, Persistence, Snatpool)

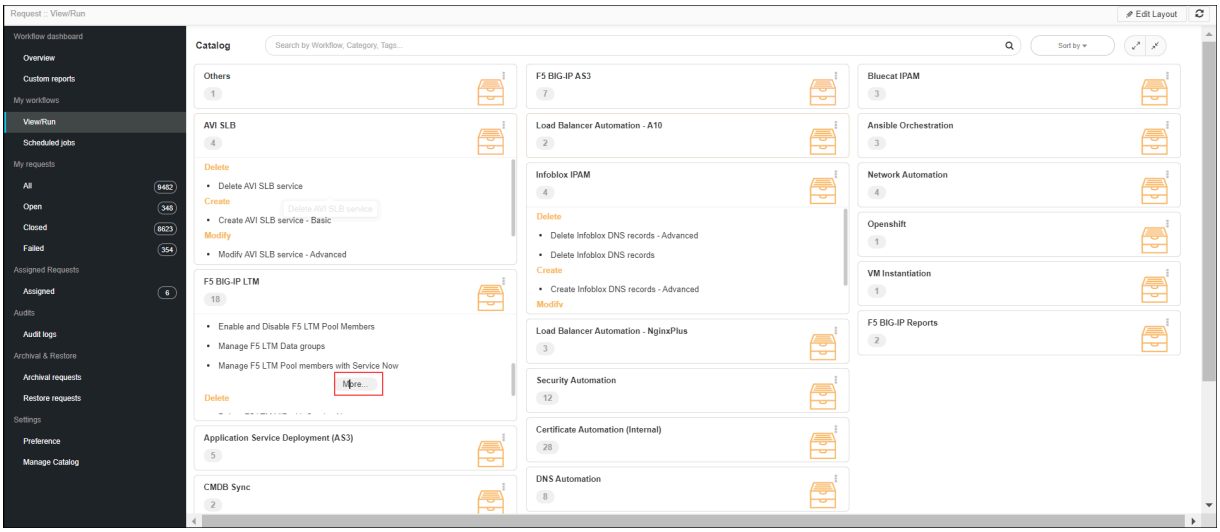
To run this workflow,

1. Go to ☰ **Menu** > **Request** > **View/Run**.
   The Workflow Catalog page appears.

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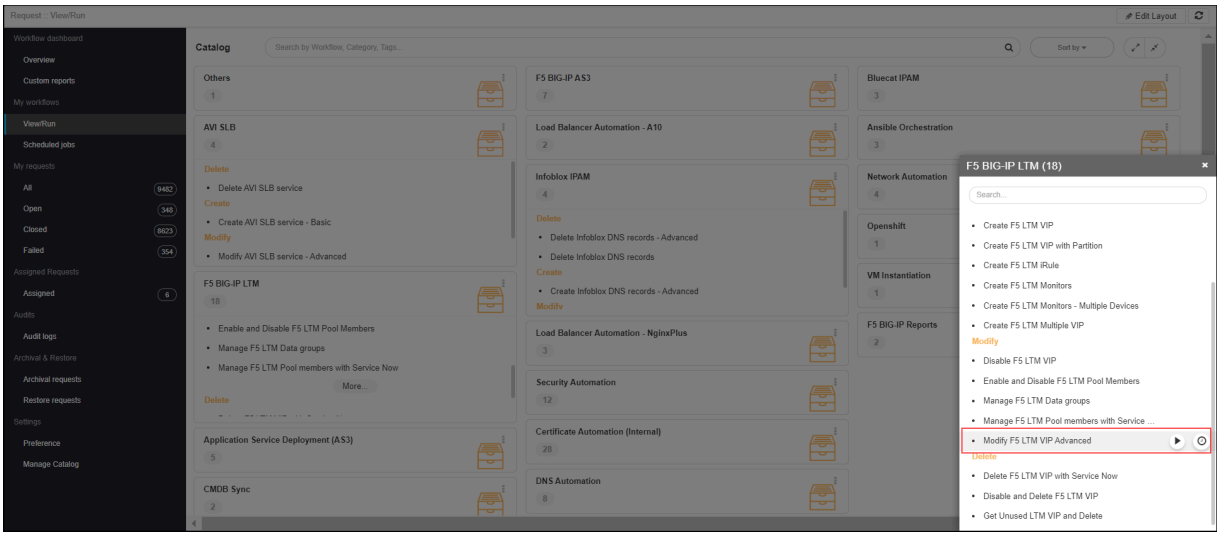
2. In the Workflow Catalog page, click **More** under the category **F5 BiG-IP LTM** > **Modify**.



3. Hover over the **Manage F5 LTM VIP Advanced** workflow.

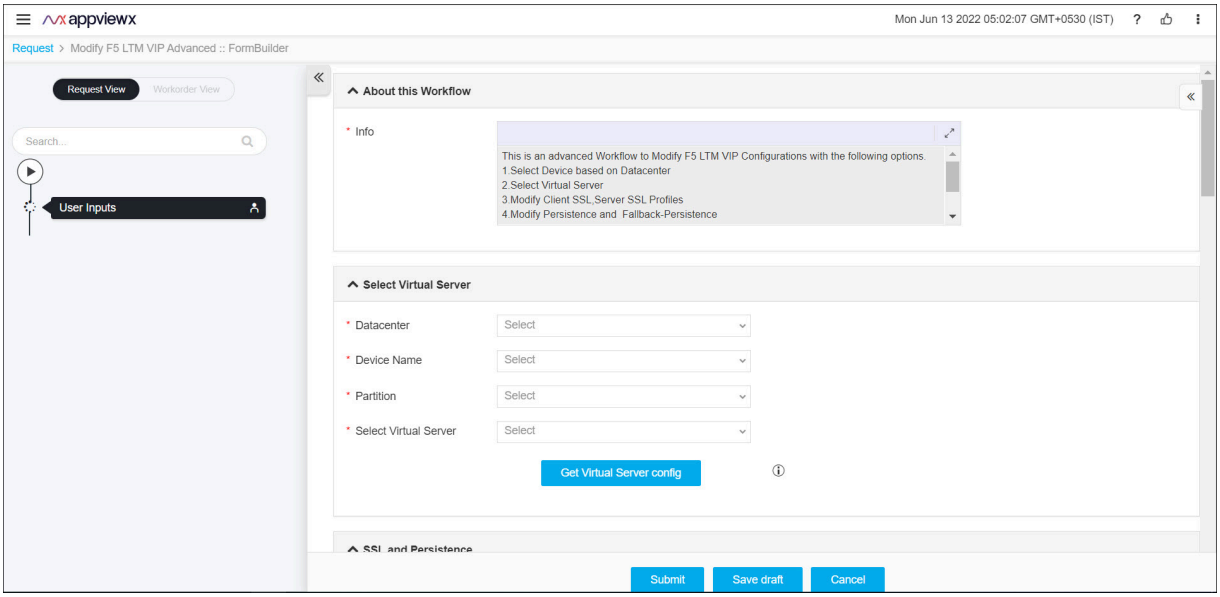
   The Run and Schedule buttons are shown.

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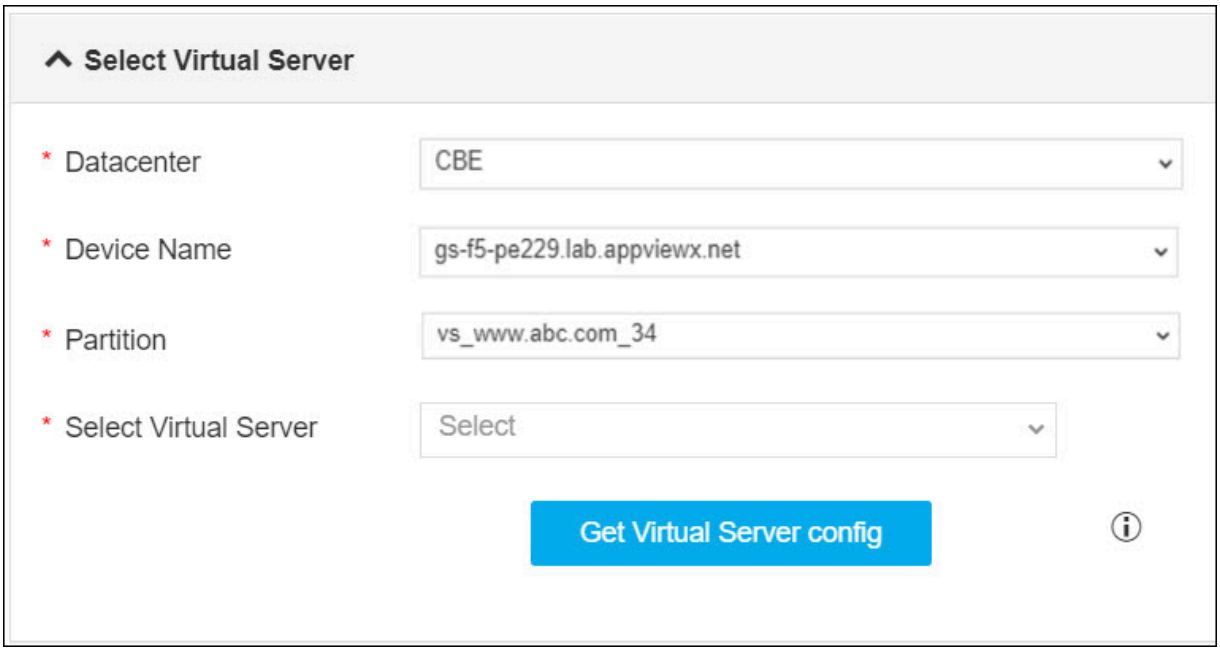
4. Click the Run  button.

   The Form Input page opens:



5. Select the **Datacenter**, **Device Name**, and **Virtual Server** from the drop-down list, and then click the **Get Virtual Server config** button.

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The device details, such as SSL and Persistence, Rule, etc. are loaded in the form input page.

6. Update the **SSL and Persistence**, **Rule**, **Protocol**, **Snat Pool**, **Mirror and Source-Port**, **Pool and Monitor**, and/or **Pool Members** sections as required.
7. Click the **Submit** button.

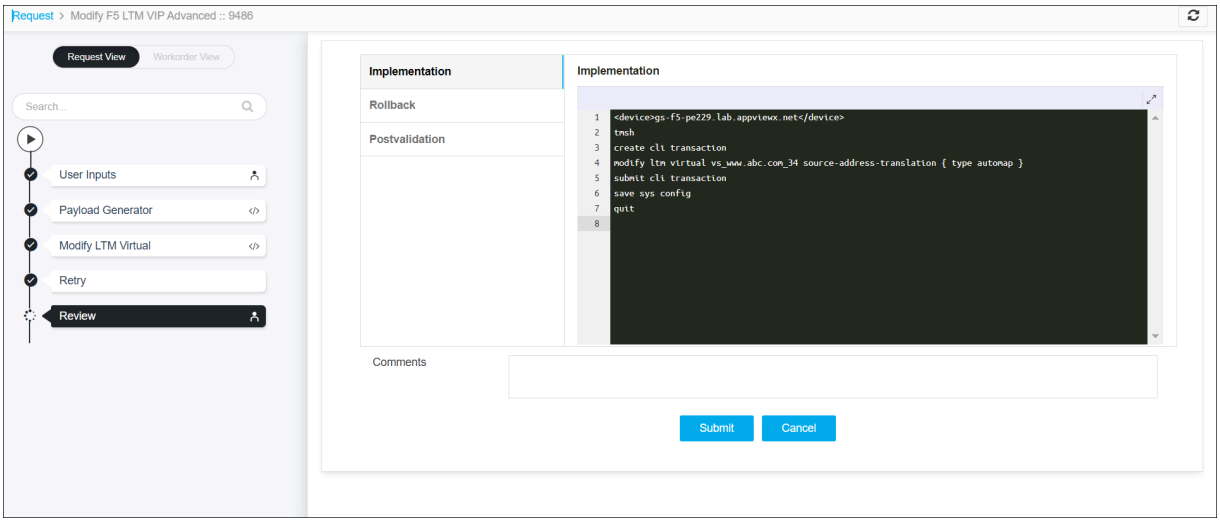
   The Confirmation popup opens.

> **Note:**
> - If you want to save this form to edit it later, click the **Save Draft** button, and then click **Ok** in the Confirmation popup window. The form will be saved as Open request under **Request** > **My Request**.
> - If you want to cancel this form, click the **Cancel** button.

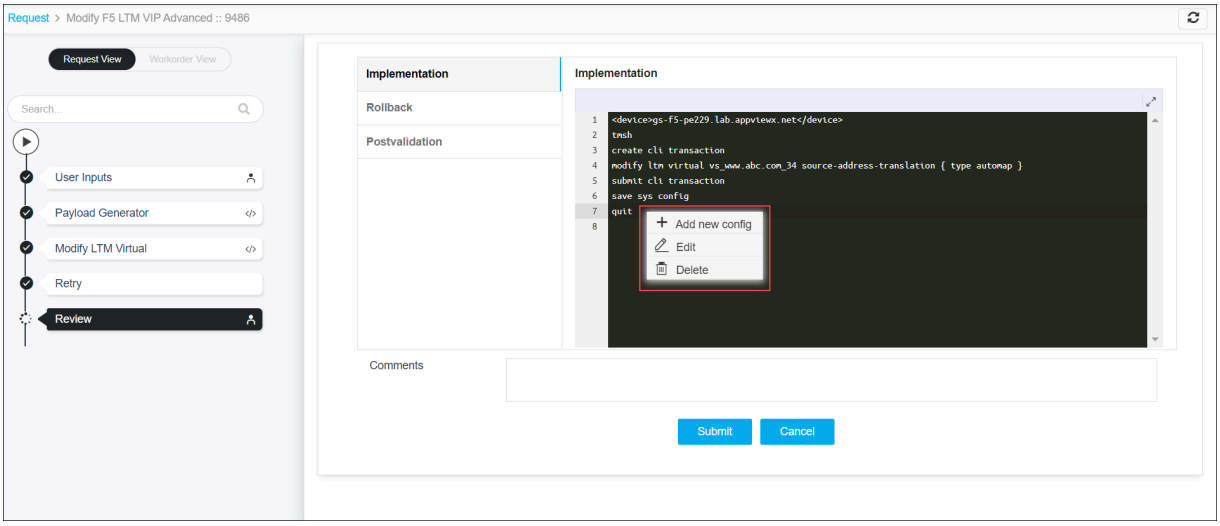
8. Click **Ok** to submit the form.

   The pre-validation starts automatically and reaches the **Review** stage.
9. Review the input data under the **implementation**, **rollback**, and **postvalidation** tabs:

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10. (Optional) If you need to change any data at this stage, you can update by clicking the right side of the mouse on the data.



11. After the review, click the **Submit** button.

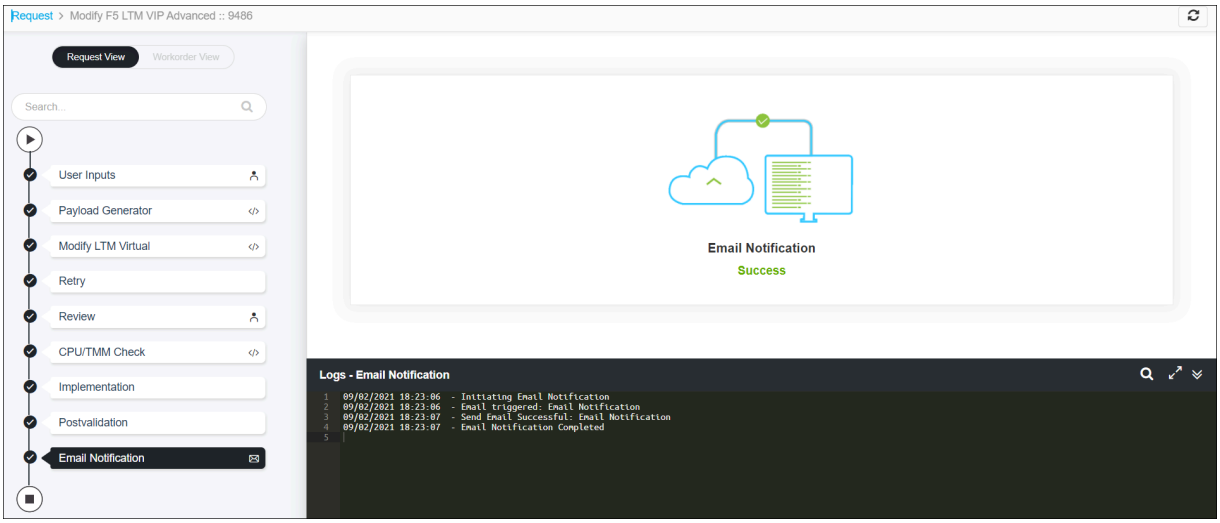
> **Note:** To stop running the workflow creation, click **Cancel**.

12. Click **Ok** to continue the workflow creation.

    It takes a while to complete the post-validation.

13. After the successful post-validation, the workflow is created and the email triggered to the configured email IDs.

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Note: The validation stages are shown in the left side of the screen. To view any validation stage, click on the respective stage.

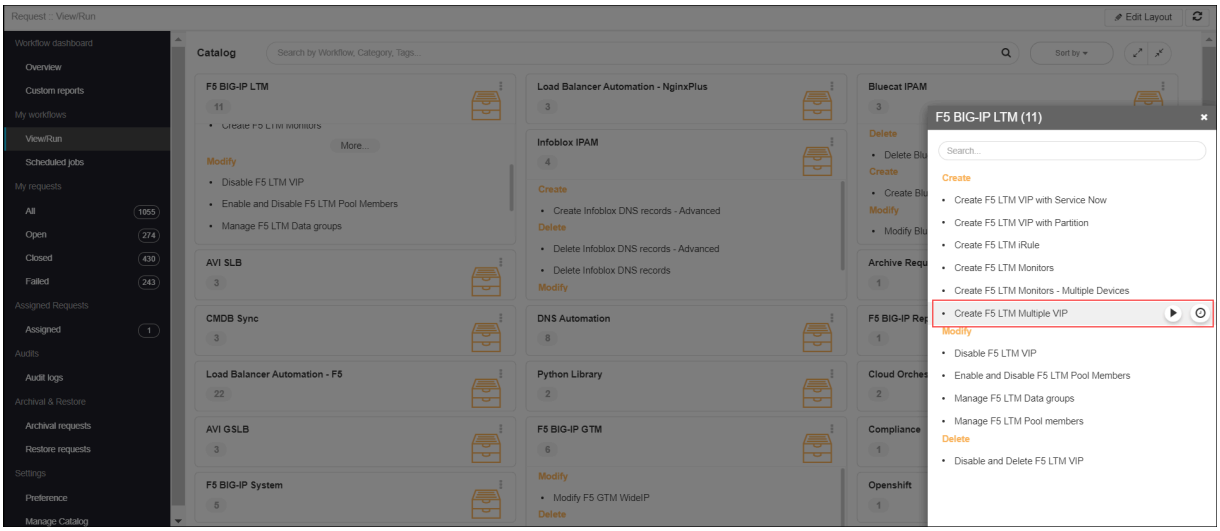
Create F5 LTM Multiple VIP

This workflow creates VIP with Single Pool and Single Monitor on Multiple Devices and also creates Multiple VIPs on the same Device.

To run this workflow,

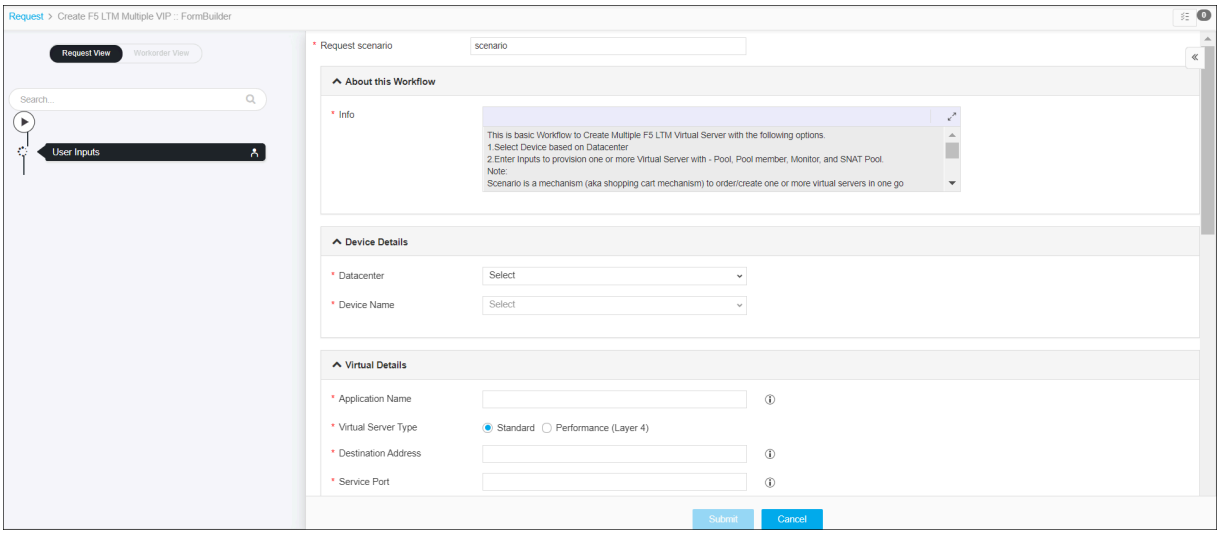
1. Go to **Menu** > **Request** > **View/Run**.
   The Workflow Catalog page appears.
2. In the Workflow Catalog page, hover over the **Create F5 LTM Multiple VIP** workflow.
   The Run and Schedule buttons are shown.

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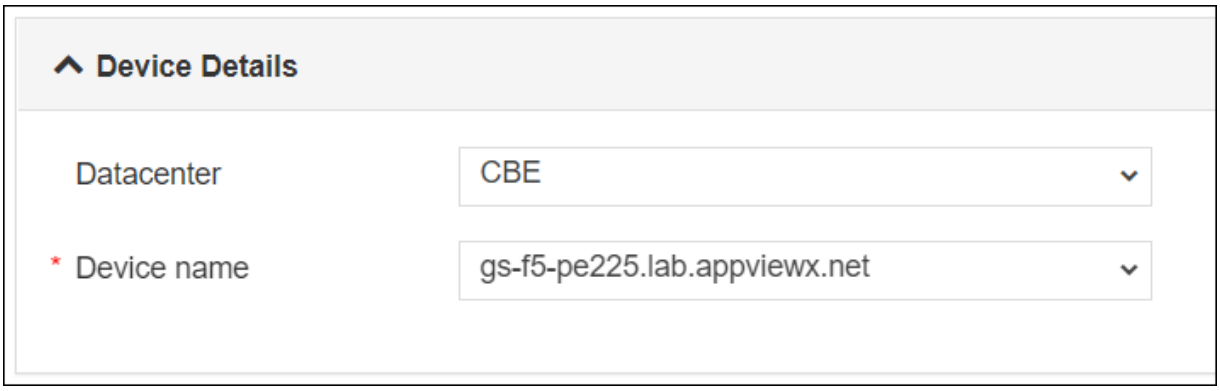
3. Click the Run  button.

   The Form Input page opens:



4. Enter or select the field information in the **Device Details** section of Form Input.

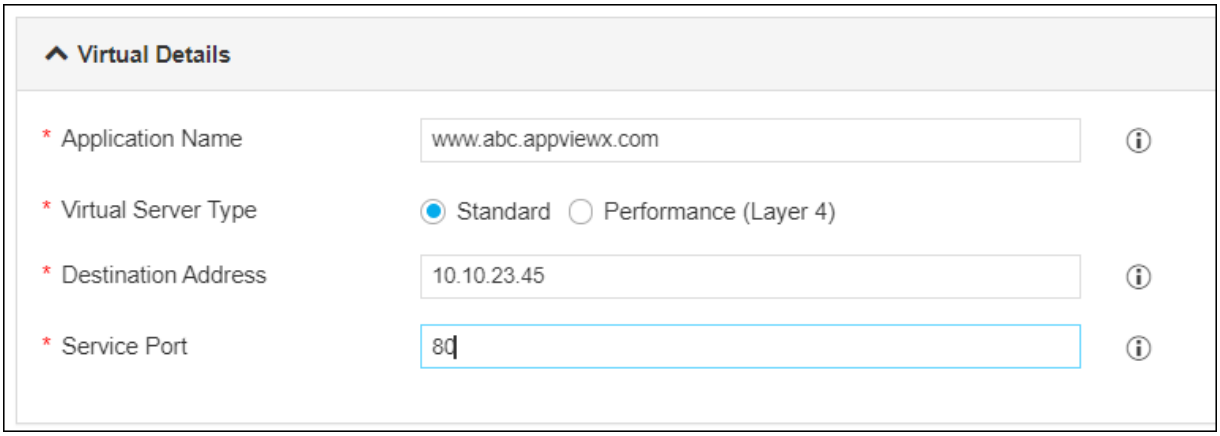
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5. The following table provides the field description for the **Device Details** section of Form Input:

Field	Description
*Datacenter	Displays the list of datacenters of the devices, which are created in the Device Inventory. Select the datacenter of a device from the drop-down option for which this request is to be created. For the devices which are created without a datacenter in the Device Inventory, select the datacenter as **None**.
*Device Name	Displays the list of devices associated with the selected datacenter. If the datacenter is selected as **None**, the devices that are created without datacenter details are listed. Select the desired device from the drop-down option.

6. Enter or select the field information in the **Virtual Details** section of Form Input.

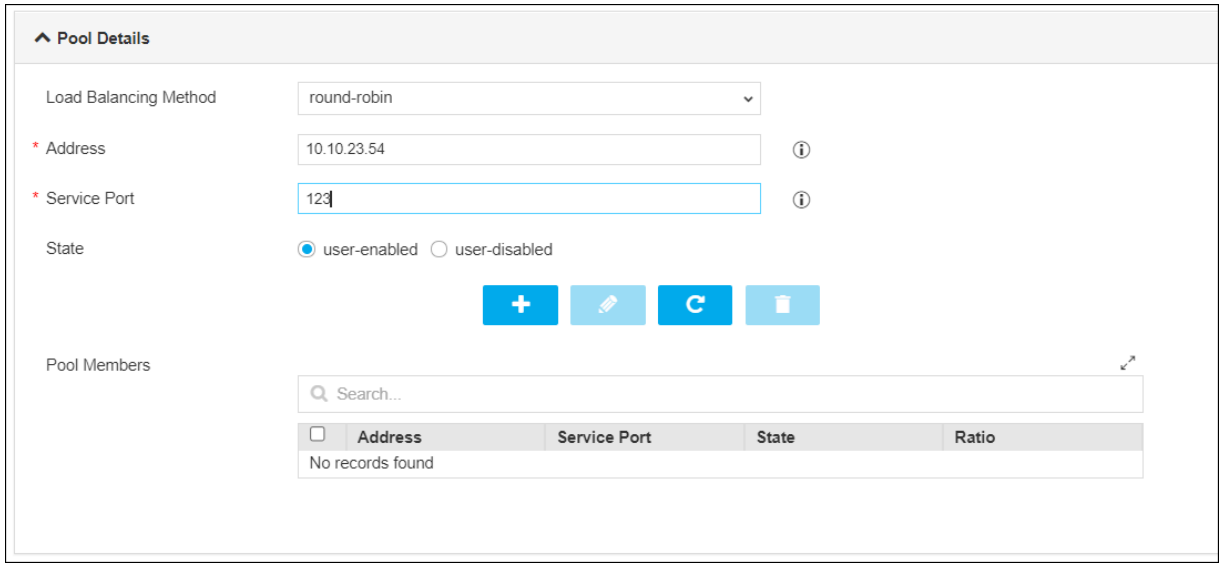


7. The following table provides the field description for the **Virtual Details** section of Form Input:

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Field	Description
*Application Name	Enter the application name of the virtual server.
*Virtual Server Type	The attributes of this virtual server. The default is a Standard. • **Standard** - A virtual server that directs client traffic to a load balancing pool and is the most basic type of virtual server. When you first create the virtual server, you assign an existing default pool to it. From then on, the virtual server automatically directs traffic to that default pool. • **Performance (Layer 4)** - A virtual server that shares the same IP address as a node in an associated VLAN.
*Destination Address	Enter the destination IP address information for the virtual server.
*Service Port	Enter a service port.

8. Enter or select the field information in the **Pool Details** section of Form Input.



9. The following table provides the field description for the **Pool Details** section of Form Input:

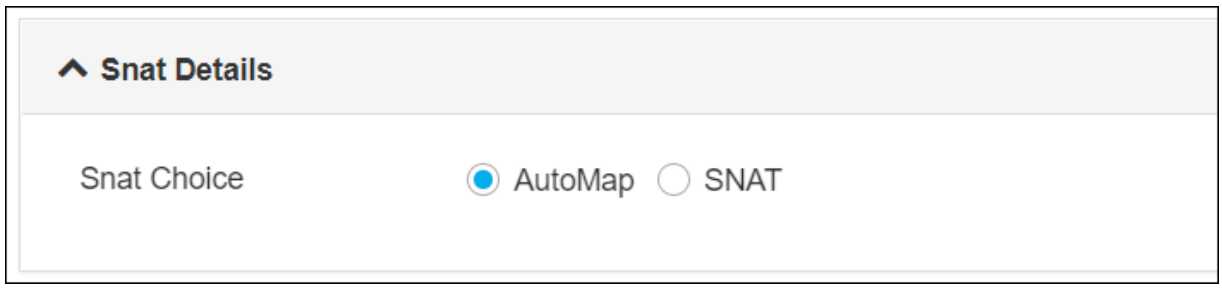
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Field	Description
Load Balancing Method	The load balancing method is used to select a pool in this WideIP. The default is a round-robin. The methods are: • **round-robin** - the system selects the pools sequentially. • **least-connection-node** - The system passes a new connection to the node that has the least number of current connections out of all pools of which a node is a member. This method works best in environments where the servers or other equipment you are load balancing have similar capabilities. This is a dynamic load balancing method, distributing connections based on various aspects of real-time server performance analysis, such as the number of current connections per node, or the fastest node response time. • **least-connection-member** - The system passes a new connection to the node that has the least number of current connections in the pool. This method works best in environments where the servers or other equipment you are load balancing have similar capabilities. This is a dynamic load balancing method, distributing connections based on various aspects of real-time server performance analysis, such as the current number of connections per node or the fastest node response time. • **ratio-member** - The number of connections that each machine receives over time is proportionate to a ratio weight you define for each machine within the pool.
Address	Enter the IP address of the pool.
Service Port	Enter a service port.
Pool Member Status	The current state of the pool members. The statuses are: • **user-enabled** - when you select this option, the system sends traffic to this pool member regardless of the pool member's state. • **user-disabled** - when this option is selected, the pool member can handle only persistent or active connections.
Priority Group	A number representing the priority group for the pool members. To specify a priority, you must activate priority group usage when you create a new pool or when adding or removing pool members. When activated, the system load balances traffic according to the priority group number assigned to the pool member.

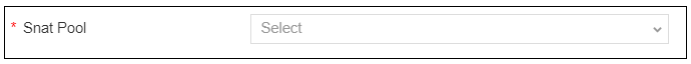
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Field	Description
Pool Members	Enter the IP address of the pool member. And then click the Add  button. Any number of pool numbers can be added to the pool. After adding the pool, you can manage them.

10. Enter or select the field information in the **Snat Details** section of Form Input.



11. The following table provides the field description for the **Snat Detail**s section of Form Input:

Field	Description
Snat Choice	Select the SNAT choice for any connections using this pool. The options are: • AutoMap -This option allows you to select a translation address from the available self-IP address. • SNAT - This option allows you to select a floating self IP as a translation address. 

12. Enter or select the field information in the **Monitor Details** section of Form Input.



13. The following table provides the field description for the **Monitor Details** section of Form Input:

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Field	Description
Monitor Type	Select the health monitors that are available to add for the pool: • **HTTP** • **HTTPS** • **TCP** • **TCPHALFOPEN** • **GatewayIcmp**
Send String	The text string that the monitor sends to the target object. You must include \r\n at the end of a non-empty Send String. To retrieve a specific page from a website, specify a fully qualified path name.
Receive String	The regular expression representing the text string that the monitor looks for in the returned resource. The most common receive expressions contain a text string that is included in an HTML file on your site. The text string can be regular text, HTML tags, or image names, and the associated operation is not case-sensitive.

14. Click the Add ()button to add the provided VIP details for a device.
    These details are created as scenario_1. You can add VIP details for another device by repeating the above procedure.
15. Once the VIP details are created for the desired devices, click the **Submit** button.
    The Confirmation popup opens.

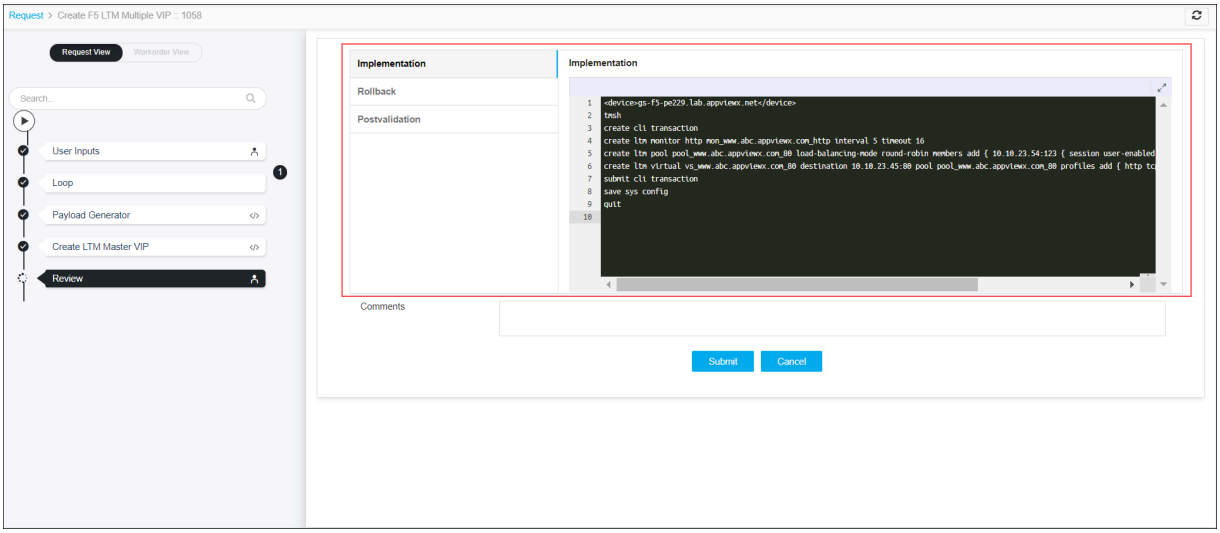
> **Note:**
> • If you want to save this form to edit it later, click the **Save Draft** button, and then click **Ok** in the Confirmation popup window. The form will be saved as Open request under **Request** > **My Request**.
> • If you want to cancel this form, click the Cancel button.

16. Click **Ok** to submit the form.
    The validation starts automatically and reaches the **Review** stage.

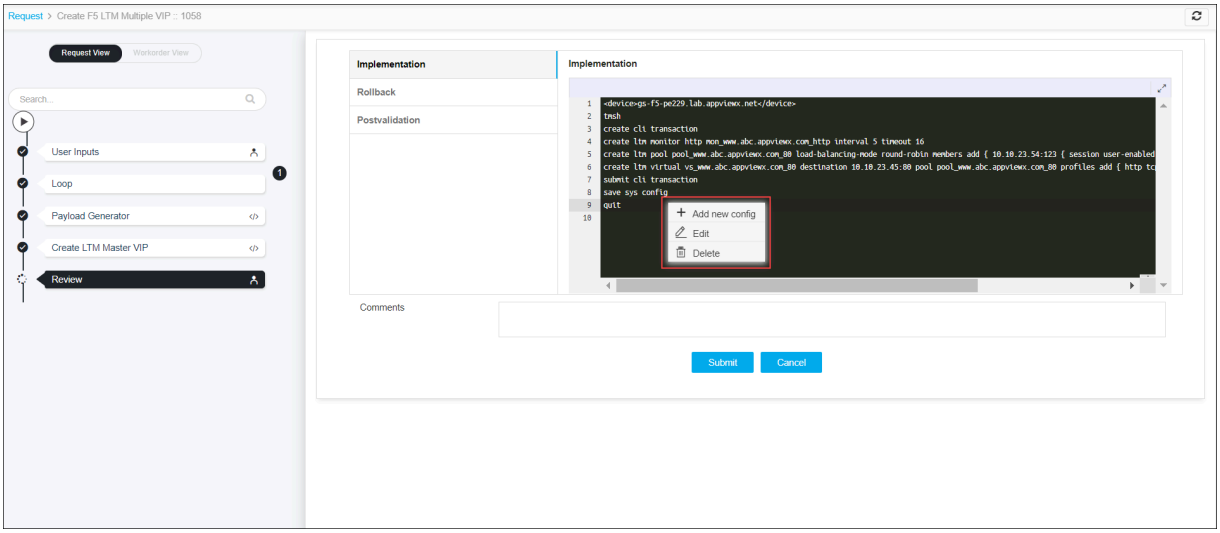
> **Note:**
> • If there is any failure at this stage, start a new request by providing the correct data.
> • Alternatively, select the failed request and clone it. Update the correct input data in the form input, and submit the workflow again.

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17. Review the input data under the **implementation**, **rollback**, and **postvalidation** tabs:



18. (Optional) If you need to update any data at this stage, you can do so by clicking the right side of the mouse on the data and selecting the desired option.



19. After the review, click the **Submit** button.

    The Confirmation popup opens.

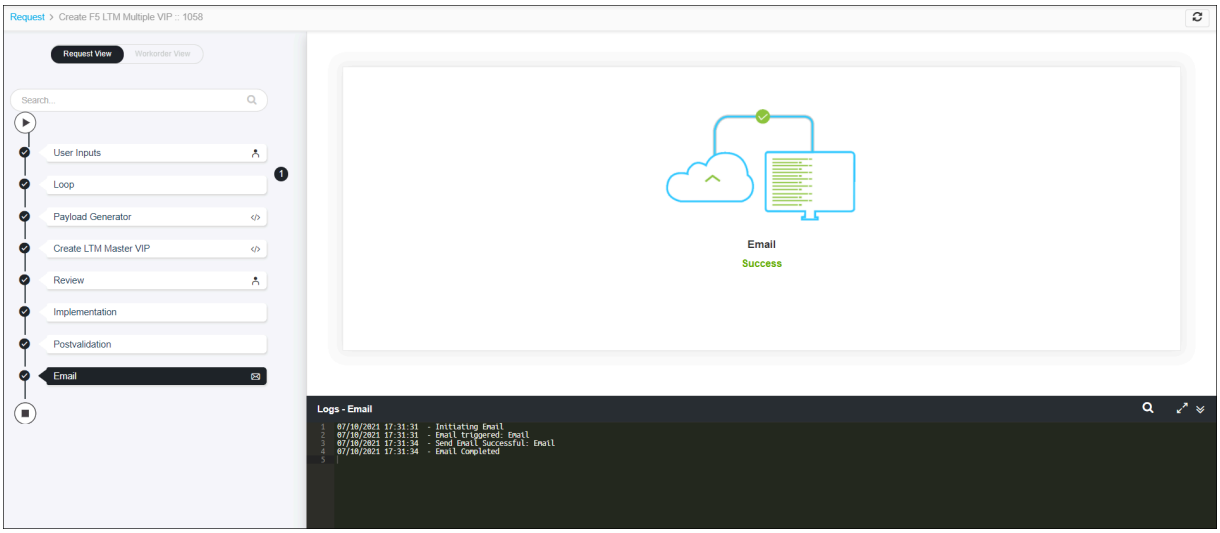
> **Note:** To stop running the workflow creation, click **Cancel**.

20. Click **Ok** to continue the workflow creation.

    It takes a while to complete the request.

21. The workflow is created and the email is triggered to the configured email IDs.

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Note: The stages of the request are shown in the left side of the screen. To view a particular stage of the request, click the respective stage.

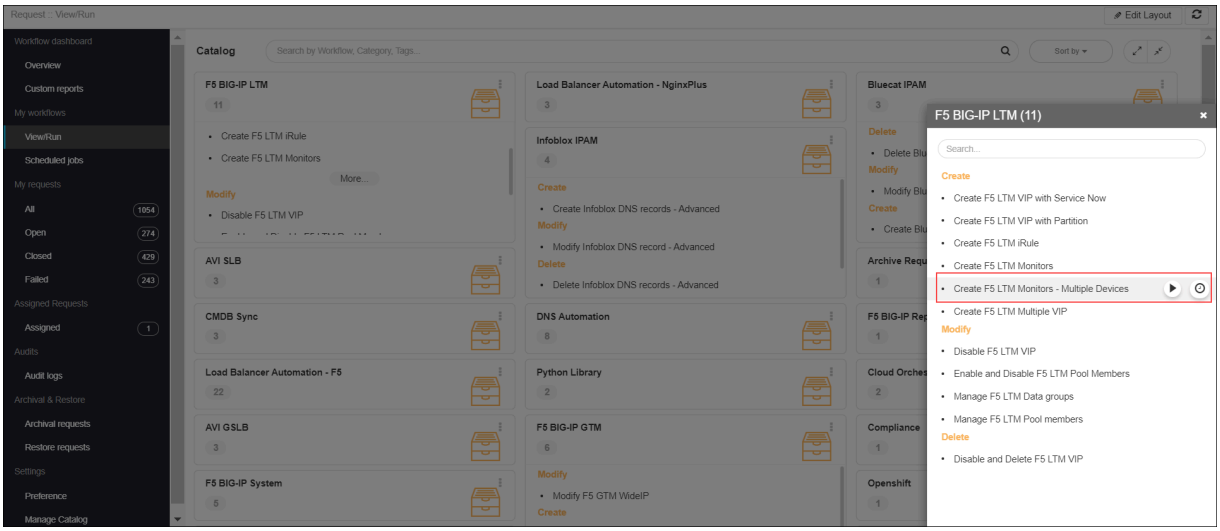
Create F5 LTM Monitors - Multiple Devices

This workflow creates a Single Monitor of Type (HTTP, HTTPS, GatewayICMP) with the same configuration on multiple devices.

To run this workflow,

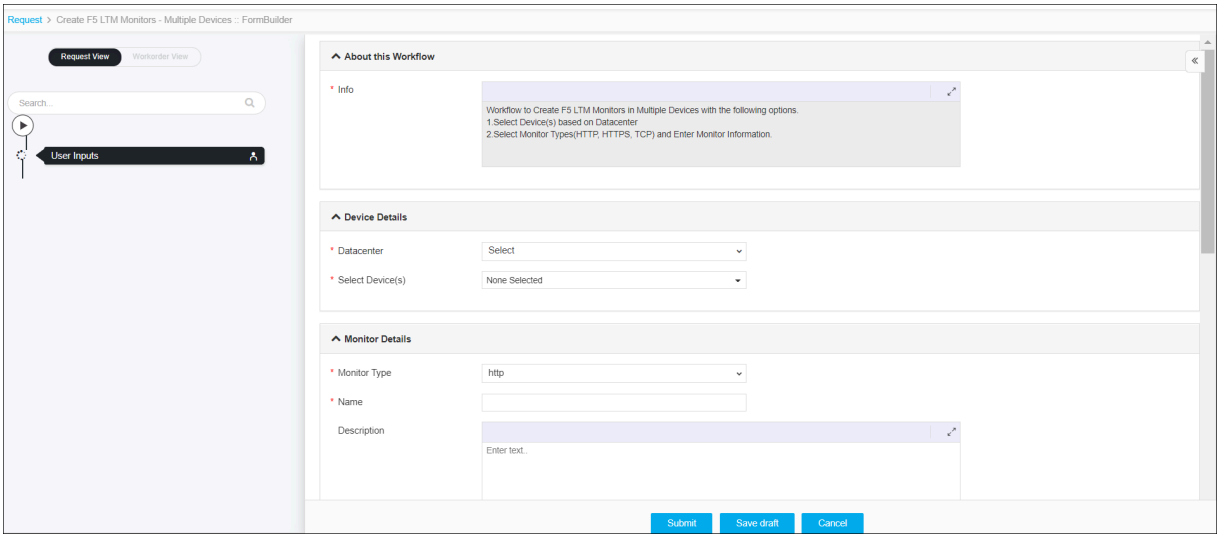
1. Go to ☰ **Menu** > **Request** > **View/Run**.
   The Workflow Catalog page appears.
2. In the Workflow Catalog page, hover over the **Create F5 LTM Monitors - Multiple** Devices workflow.
   The Run and Schedule buttons are shown.

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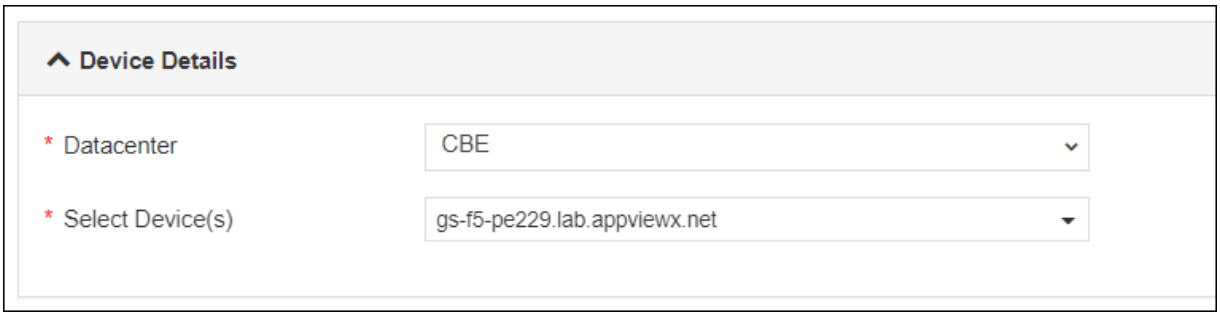


3. Click the Run  button.

   The Form Input page opens:



4. Enter or select the field information in the **Device Details** section of Form Input.



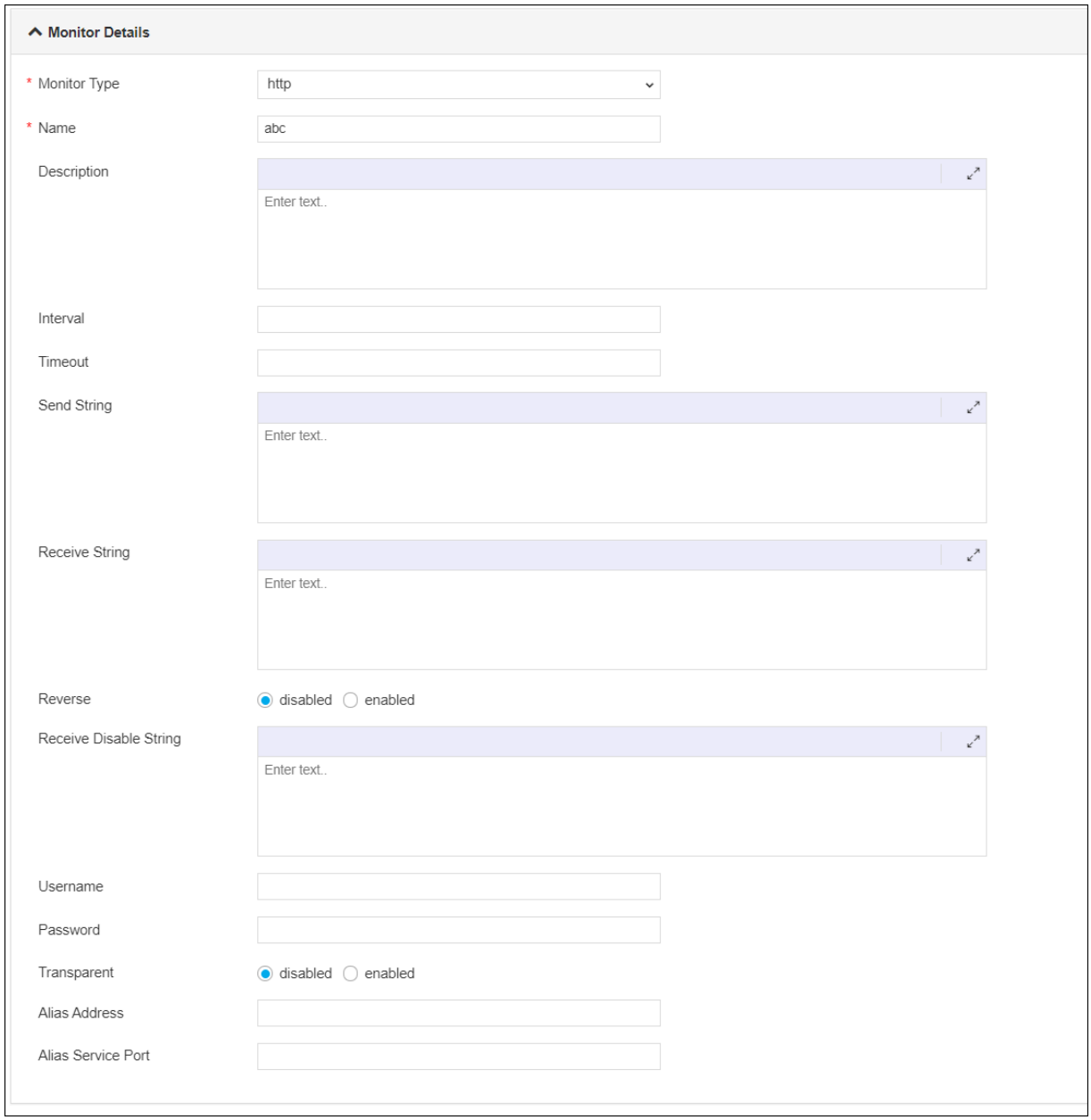
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5. The following table provides the field description for the **Device Details** section of Form Input:

Field	Description
*Datacenter	Displays the list of datacenters of the devices, which are created in the Device Inventory. Select the datacenter of a device from the drop-down option for which this request is to be created. For the devices which are created without a datacenter in the Device Inventory, select the datacenter as **None**.
*Device Name	Displays the list of devices associated with the selected datacenter. If the datacenter is selected as **None**, the devices that are created without datacenter details are listed. Select the desired devices from the drop-down option.

6. Enter or select the field information in the **Monitor Details** section of Form Input.

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7. The following table provides the field description for the **Monitor Details** section of Form Input:

Field	Description
*Monitor Type	Select the monitor type from the drop-down option.
*Name	Enter the name of the monitor.
Description	Enter the description for the monitor.

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Field	Description
Interval	The frequency at which the system issues the monitor check when either the resource is down or the status of the resource is unknown. Enter the value for the interval in seconds.
Timeout	The number of seconds the target has in which to respond to the monitor request. Enter the timeout value in seconds.
Send String	The text string that the monitor sends to the target object. You must include \r\n at the end of a non-empty Send String. The default setting is GET /\r\n, which retrieves a default HTML file for a website. To retrieve a specific page from a website, specify a fully qualified path name
Receive String	The regular expression representing the text string that the monitor looks for in the returned resource. The most common receive expressions contain a text string that is included in an HTML file on your site. The text string can be regular text, HTML tags, or image names, and the associated operation is not case-sensitive.
Reverse	Instructs the system to mark the target resource down when the test is successful. This setting is useful. For example, if the content on your website's home page is dynamic and changes frequently, you may want to set up a reverse ECV service check that looks for the string errors. A match for this string meant that the webserver was down. To use this option, you must specify values for Send String and Receive String. • disabled - Specifies that the monitor does not operate in reverse mode. • enabled - Specifies that the monitor operates in reverse mode.
Receive Disable String	This setting works like a Receive String, except that the system marks the node or pool member disabled when its response matches Receive Disable String but not Receive String. To use this setting, you must specify both Receive Disable String and Receive String.
Username	Enter the user name, if the monitored target requires authentication.
Password	Enter the password, if the monitored target requires authentication.
Transparent	The transparent mode of the monitor. A monitor in transparent mode directs traffic through the associated pool members or nodes (usually a router or firewall) to the aliased destination (that is, it probes the Alias Address-Alias Service Port combination specified in the monitor). If the monitor cannot successfully reach the aliased destination, the pool member or node through which the monitor traffic was sent is marked down.

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Field	Description
	• **disabled** - Specifies that the monitor does not operate in transparent mode. • **enabled** - Specifies that the monitor operates in transparent mode.
Alias Address	Enter an alias IP address for the monitor to check on behalf of the pools or pool members with which the monitor is associated.
Alias Service Port	Enter an alias port or service for the monitor to check, on behalf of the pools or pool members with which the monitor is associated.

8. Click the **Submit** button.

   The Confirmation popup opens.

> **Note:**
> • If you want to save this form to edit it later, click the **Save Draft** button, and then click **Ok** in the Confirmation popup window. The form will be saved as Open request under **Request** > **My Request**.
> • If you want to cancel this form, click the **Cancel** button.

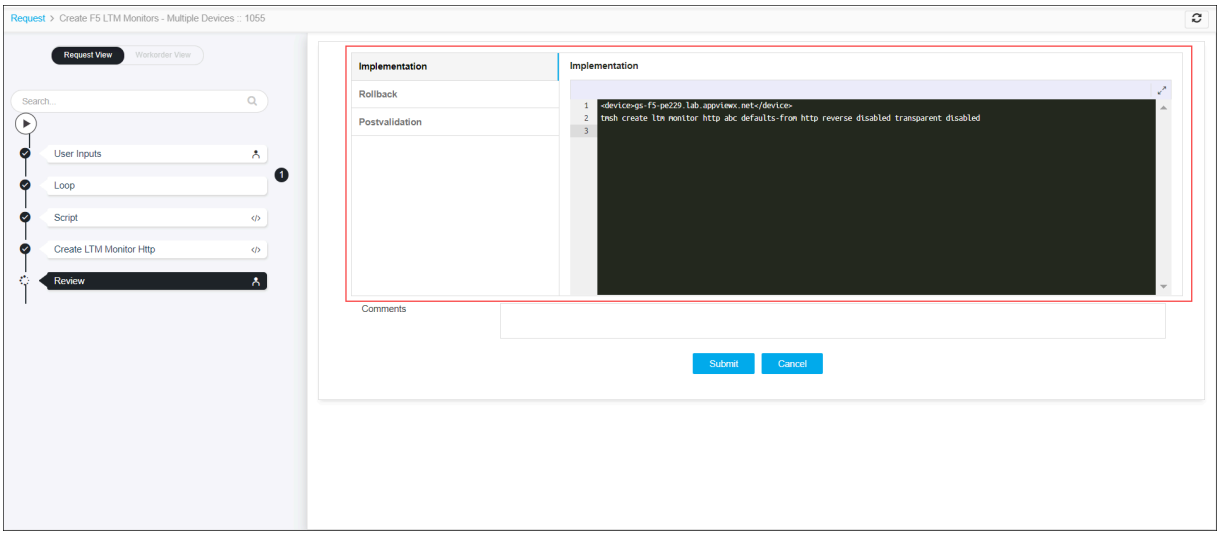
9. Click **Ok** to submit the form.

   The validation starts automatically and reaches the **Review** stage.

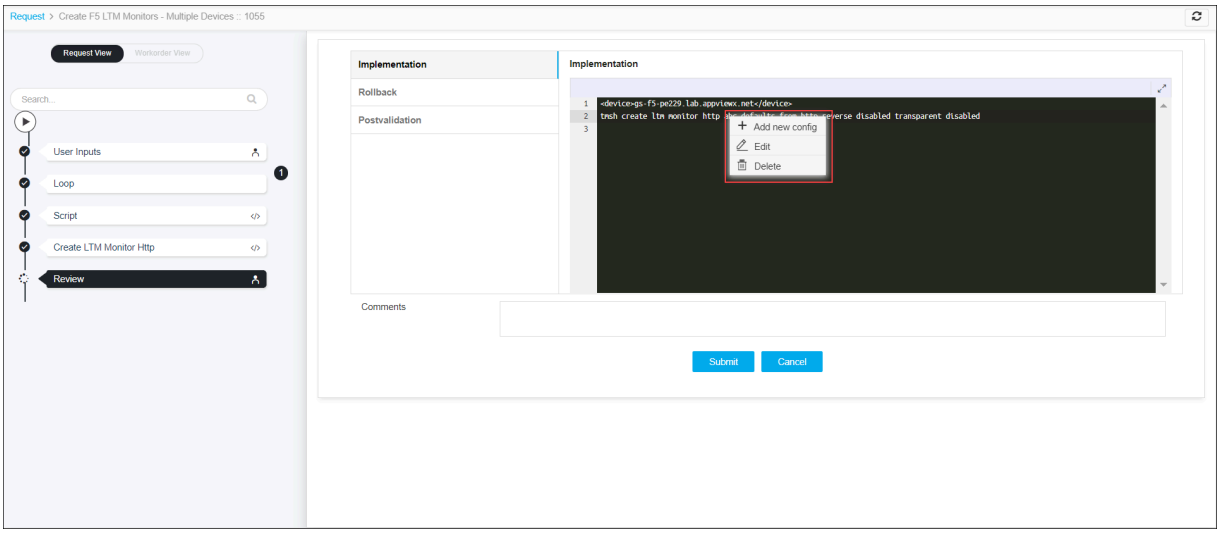
> **Note:**
> • If there is any failure at this stage, start a new request by providing the correct data.
> • Alternatively, select the failed request and clone it. Update the correct input data in the form input, and submit the workflow again.

10. Review the input data under the **implementation**, **rollback**, and **postvalidation** tabs:

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11. (Optional) If you need to update any data at this stage, you can do so by clicking the right side of the mouse on the data and selecting the desired option.



12. After the review, click the **Submit** button.

    The Confirmation popup opens.

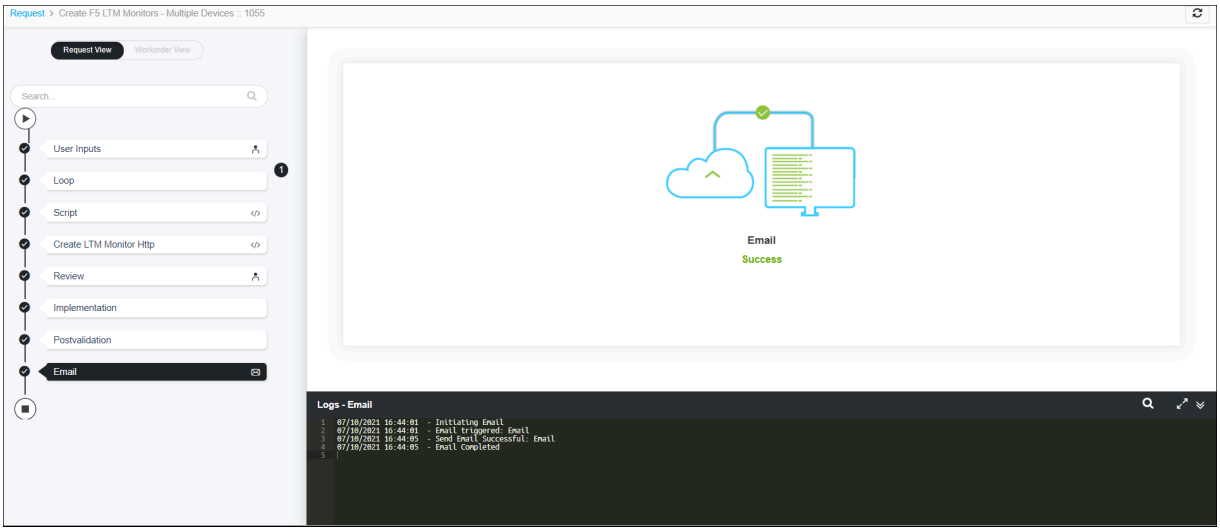
> **Note:** Click Cancel to stop running the workflow creation.

13. Click **Ok** to continue the workflow creation.

    It takes a while to complete the request.

14. The workflow is created and the email is triggered to the configured email IDs.

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Note: The stages of the request are shown in the left side of the screen. To view a particular stage of the request, click the respective stage.

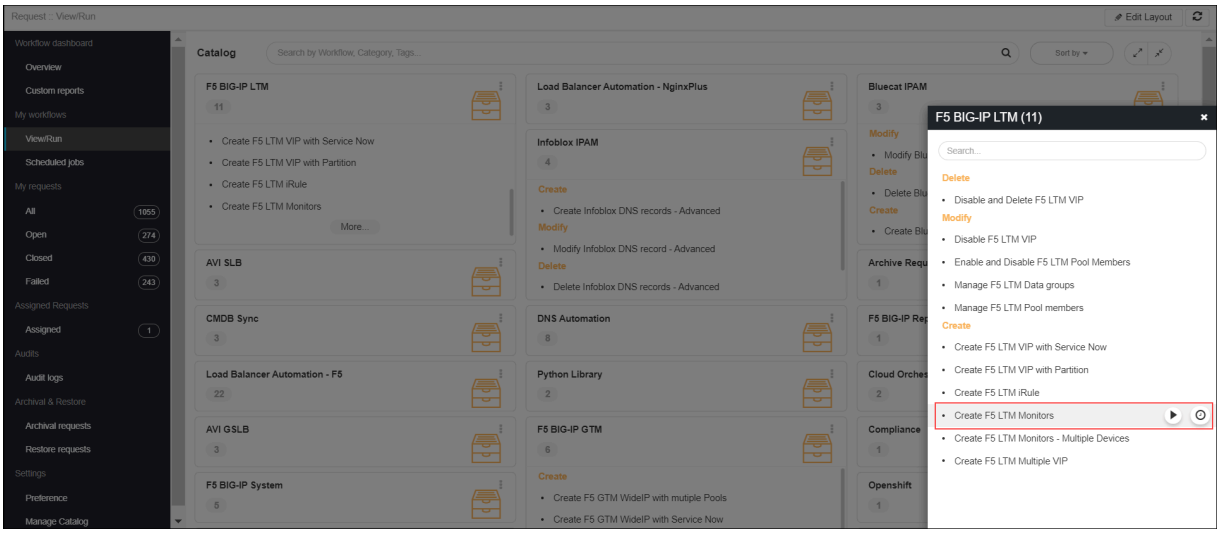
Create F5 LTM Monitors

This workflow creates a Single Monitor of Type (HTTP, HTTPS, GatewayICMP) with all parameters on F5 device.

To run this workflow,

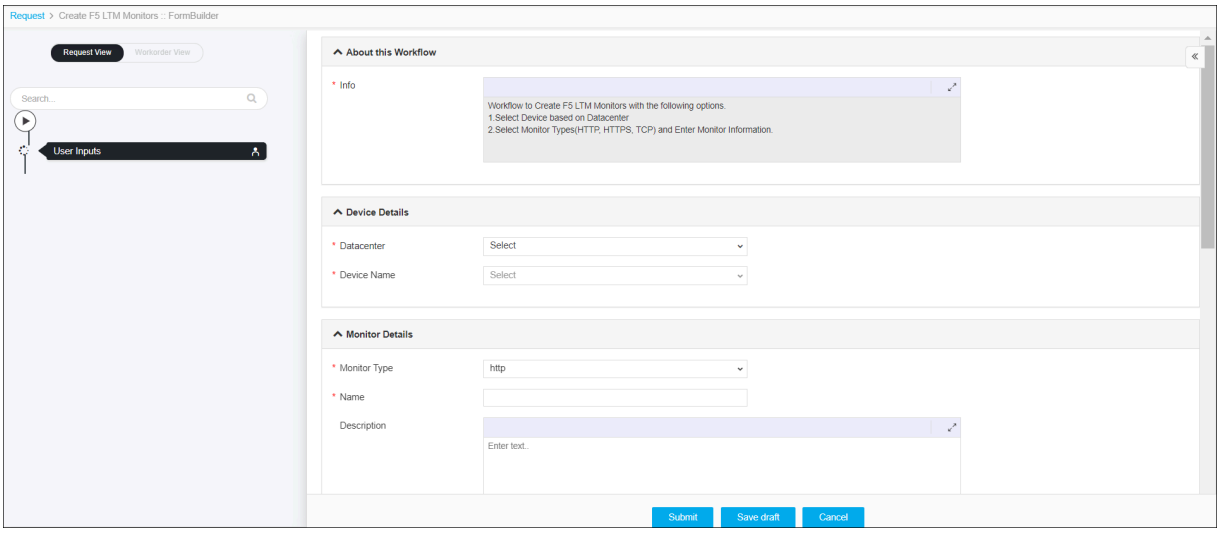
1. Go to **Menu** > **Request** > **View/Run**.
   The Workflow Catalog page appears.
2. In the Workflow Catalog page, hover over the Create F5 LTM Monitors workflow.
   The Run and Schedule buttons are shown.

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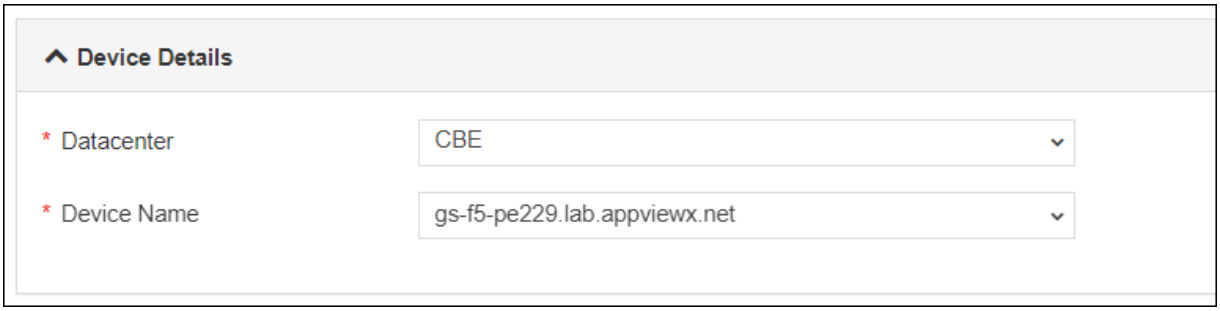


3. Click the Run  button.

   The Form Input page opens:



4. Enter or select the field information in the **Device Details** section of Form Input.



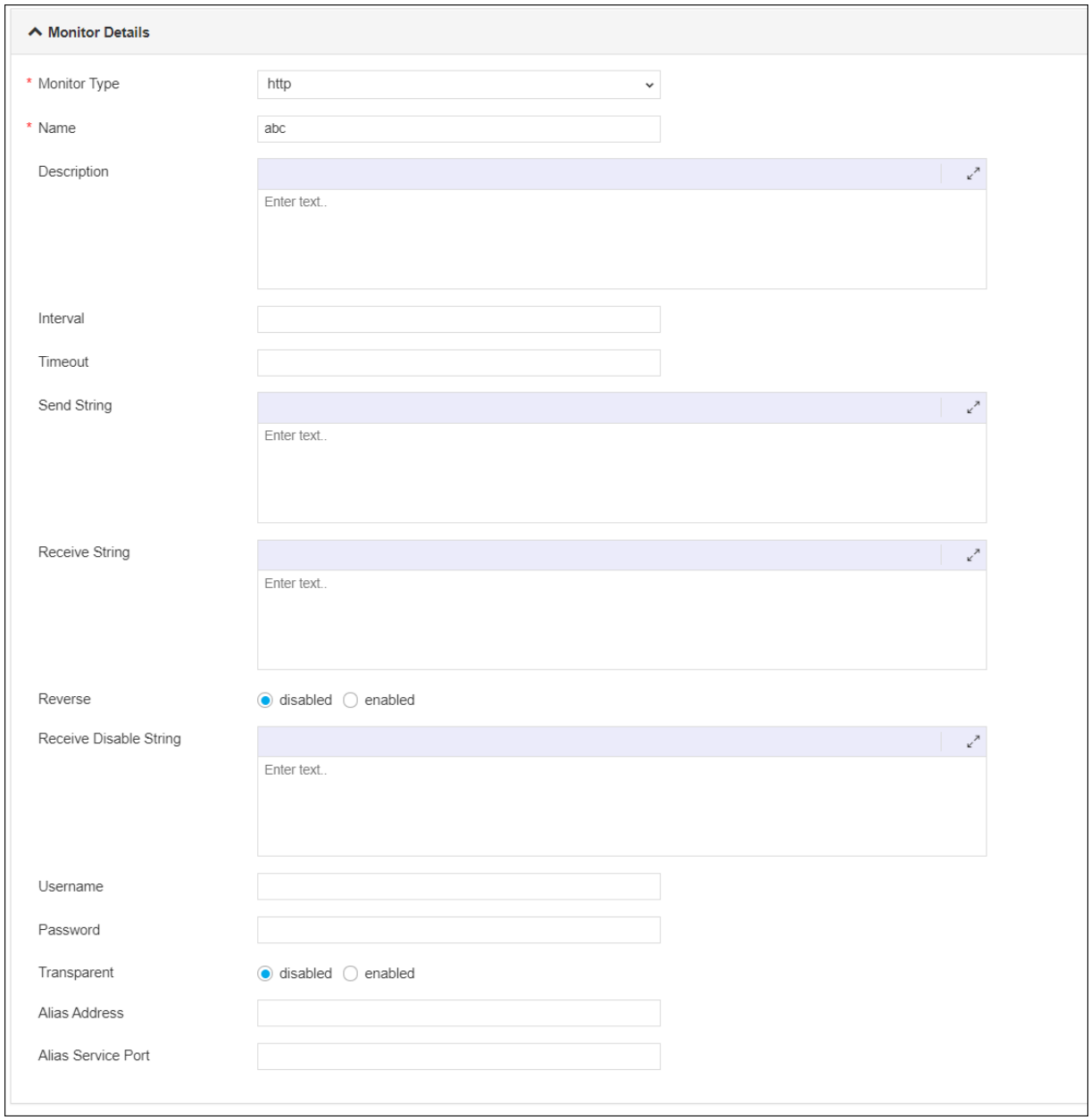
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5. The following table provides the field description for the **Device Details** section of Form Input:

Field	Description
*Datacenter	Displays the list of datacenters of the devices, which are created in the Device Inventory. Select the datacenter of a device from the drop-down option for which this request is to be created. For the devices which are created without a datacenter in the Device Inventory, select the datacenter as **None**.
*Device Name	Displays the list of devices associated with the selected datacenter. If the datacenter is selected as **None**, the devices that are created without datacenter details are listed. Select the desired device from the drop-down option.

6. Enter or select the field information in the **Monitor Details** section of Form Input.

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7. The following table provides the field description for the **Monitor Details** section of Form Input:

Field	Description
*Monitor Type	Select the monitor type from the drop-down option.
*Name	Enter the name of the monitor.
Description	Enter the description for the monitor.

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Field	Description
Interval	The frequency at which the system issues the monitor check when either the resource is down or the status of the resource is unknown. Enter the value for the interval in seconds.
Timeout	The number of seconds the target has in which to respond to the monitor request. Enter the timeout value in seconds.
Send String	The text string that the monitor sends to the target object. You must include \r\n at the end of a non-empty Send String. The default setting is GET /\r\n, which retrieves a default HTML file for a website. To retrieve a specific page from a website, specify a fully qualified path name
Receive String	The regular expression representing the text string that the monitor looks for in the returned resource. The most common receive expressions contain a text string that is included in an HTML file on your site. The text string can be regular text, HTML tags, or image names, and the associated operation is not case-sensitive.
Reverse	Instructs the system to mark the target resource down when the test is successful. This setting is useful. for example, if the content on your website home page is dynamic and changes frequently, you may want to set up a reverse ECV service check that looks for the string errors. A match for this string meant that the webserver was down. To use this option, you must specify values for Send String and Receive String. • disabled - Specifies that the monitor does not operate in reverse mode. • enabled - Specifies that the monitor operates in reverse mode.
Receive Disable String	This setting works like a Receive String, except that the system marks the node or pool member disabled when its response matches Receive Disable String but not Receive String. To use this setting, you must specify both Receive Disable String and Receive String.
Username	Enter the user name, if the monitored target requires authentication.
Password	Enter the password, if the monitored target requires authentication.
Transparent	The transparent mode of the monitor. A monitor in transparent mode directs traffic through the associated pool members or nodes (usually a router or firewall) to the aliased destination (that is, it probes the Alias Address-Alias Service Port combination specified in the monitor). If the monitor cannot successfully reach the aliased destination, the pool member or node through which the monitor traffic was sent is marked down.

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Field	Description
	• **disabled** - Specifies that the monitor does not operate in transparent mode. • **enabled** - Specifies that the monitor operates in transparent mode.
Alias Address	Enter an alias IP address for the monitor to check, on behalf of the pools or pool members with which the monitor is associated.
Alias Service Port	Enter an alias port or service for the monitor to check, on behalf of the pools or pool members with which the monitor is associated.

8. Click the **Submit** button.

   The Confirmation popup opens.

   • If you want to save this form to edit it later, click the **Save Draft** button, and then click **Ok** in the Confirmation popup window. The form will be saved as Open request under **Request** > **My Request**.

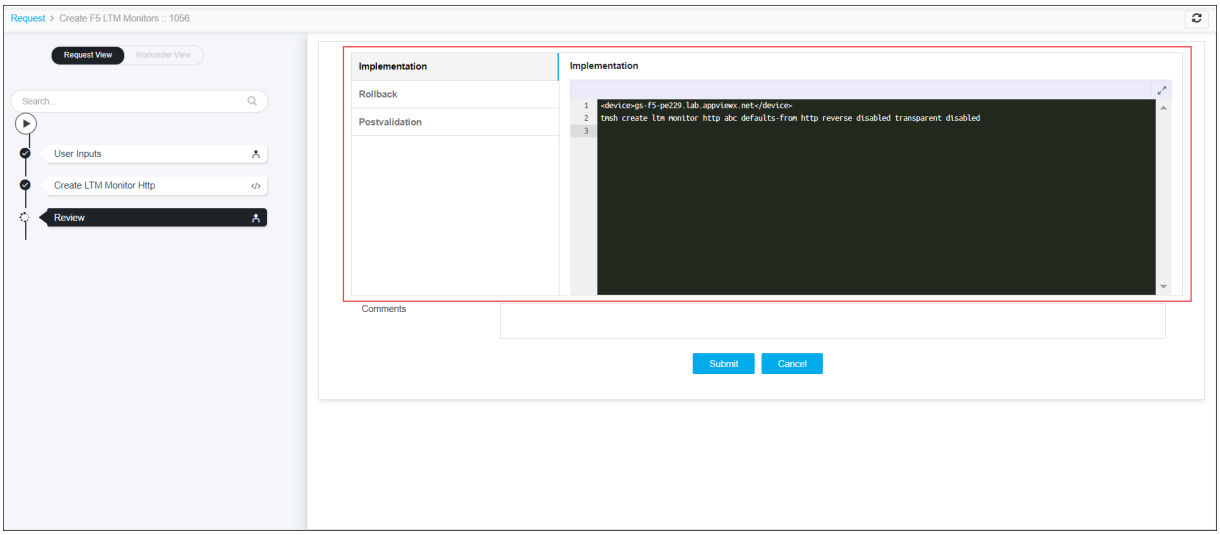
   • If you want to cancel this form, click the **Cancel** button.

9. Click **Ok** to submit the form.

   The validation starts automatically and reaches the **Review** stage.

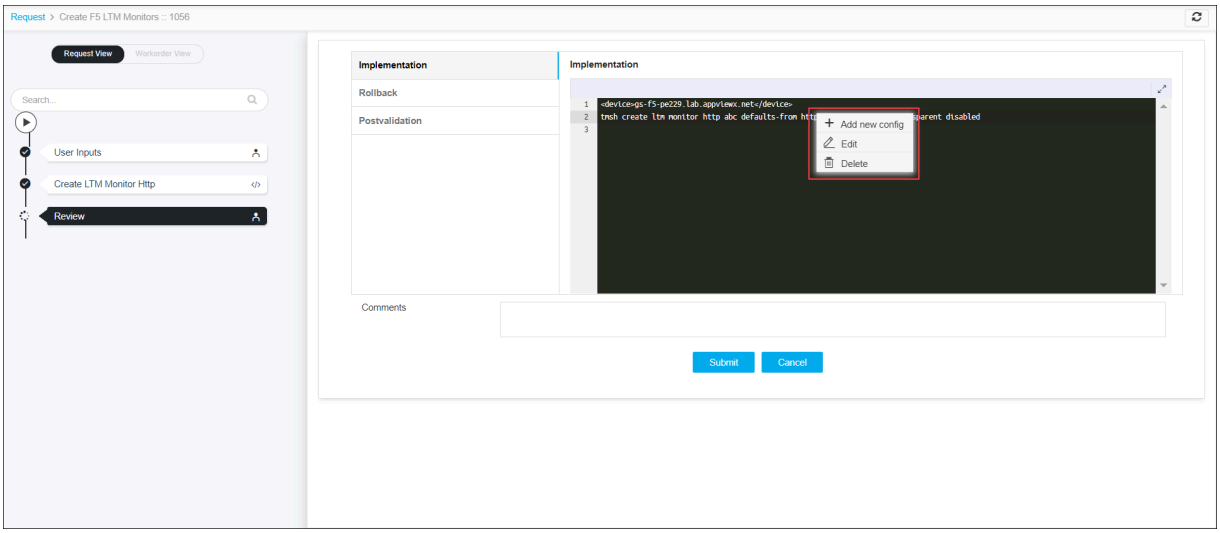
> **Note:**
> • If there is any failure at this stage, start a new request by providing the correct data.
> • Alternatively, select the failed request and clone it. Update the correct input data in the form input, and submit the workflow again.

10. Review the input data under the **implementation**, **rollback**, and **postvalidation** tabs:



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11. (Optional) If you need to update any data at this stage, you can do so by clicking the right side of the mouse on the data and selecting the desired option.



12. After the review, click the **Submit** button.

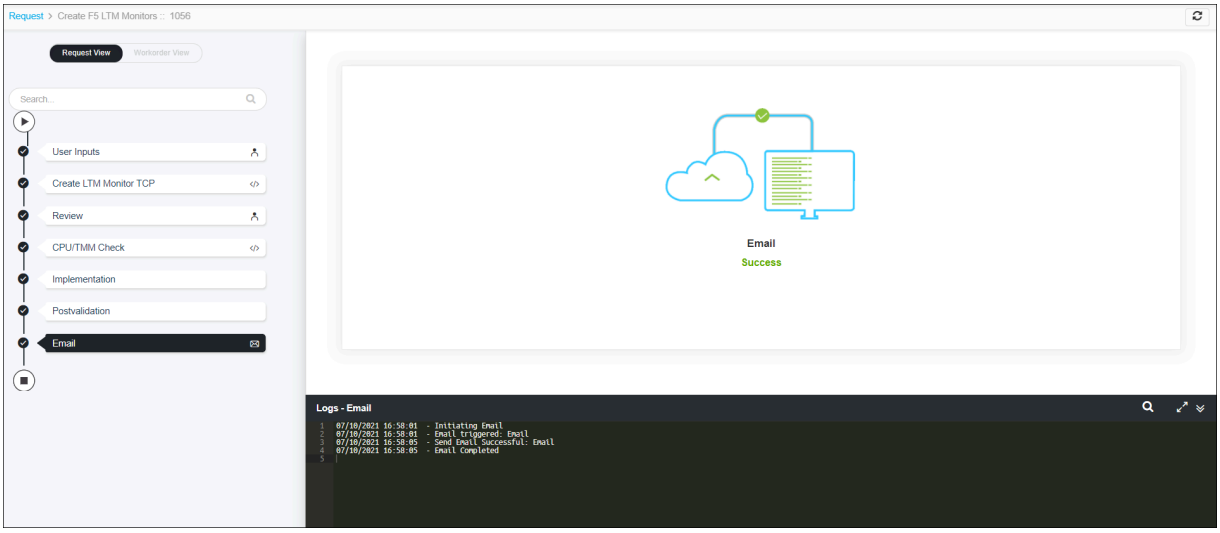
    The Confirmation popup opens.

> **Note:** To stop running the workflow creation, click **Cancel**.

13. Click **Ok** to continue the workflow creation.

    It takes a while to complete the request.

14. The workflow is created and the email is triggered to the configured email IDs.



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Note: The stages of the request are shown in the left side of the screen. To view a particular stage of the request, click the respective stage.

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Chapter 4: F5 BIG-IP GTM

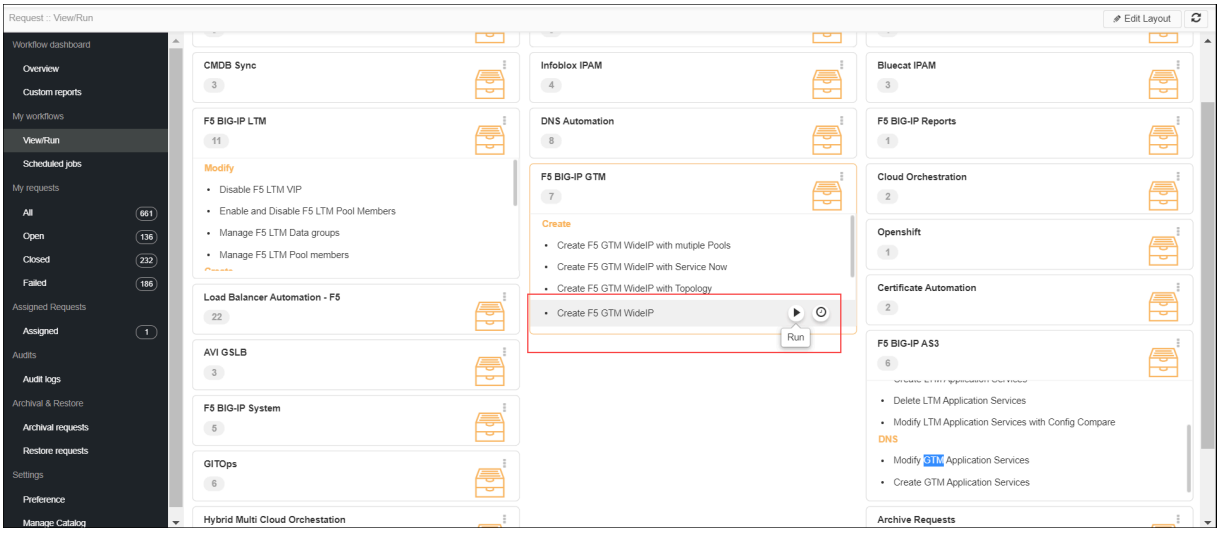
- Create F5 GTM WideIP
- Create F5 GTM WideIP with Multiple Pools
- Create F5 GTM WideIP with Topology
- Create F5 GTM WideIP with Service Now
- Modify F5 GTM WideIP
- Delete F5 GTM WideIP

Create F5 GTM WideIP

This workflow creates a GTM WideIP with a single pool for a device.

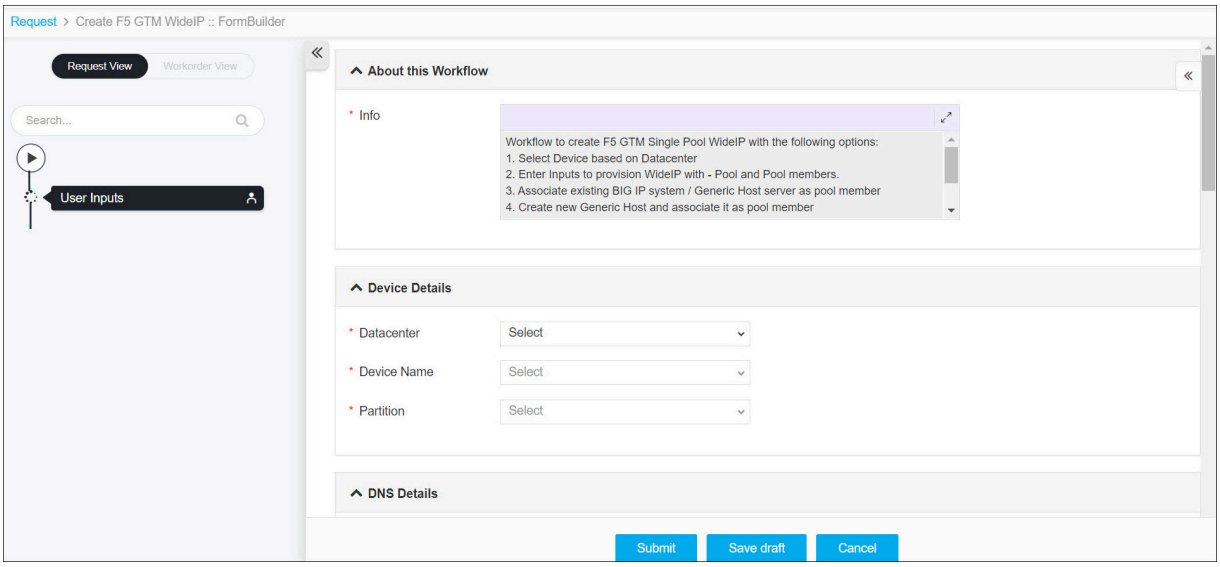
To run this workflow,

1. Go to **Menu** > **Request** > **View/Run**.
   The Workflow Catalog page appears.
2. In the Workflow Catalog page, hover over the **Create F5 GTM WideIP** workflow.
   The Run and Schedule buttons were shown.

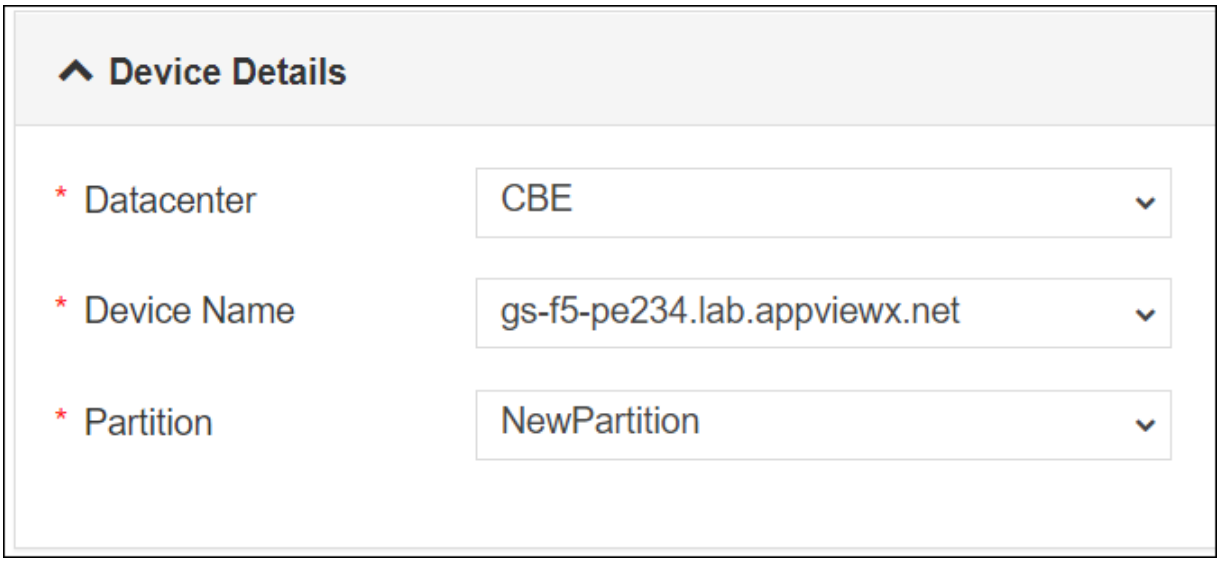


3. Click the Run button.
   The Form Input page opens:

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4. Enter or select the field information in the **Device Details** section of Form Input.



5. The following table provides the field description for the **Device Details** section of Form Input:

Field	Description
***Datacenter**	Displays the list of datacenters of the devices, which are created in the Device Inventory. Select the datacenter of a device from the drop-down option for which this request is to be created. For the devices which are created without a datacenter in the Device Inventory, select the datacenter as **None**.

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Field	Description
***Device Name**	Displays the list of devices associated with the selected datacenter. If the datacenter is selected as **None**, the devices that are created without datacenter details are listed. Select the desired device from the drop-down option.
***Partition**	Partition in which objects will be created. If you want to create a new partition, then click **Create New Partition** from the dropdown list and then provide a partition name.

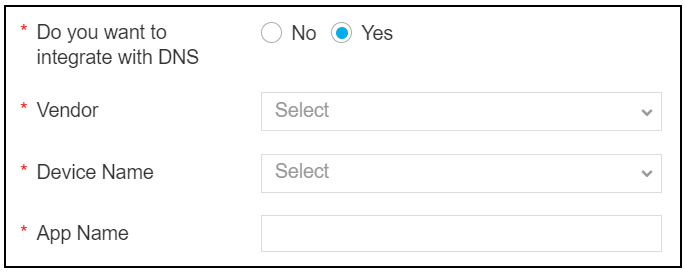
6. Enter or select the field information in the **DNS Details** section of Form Input.



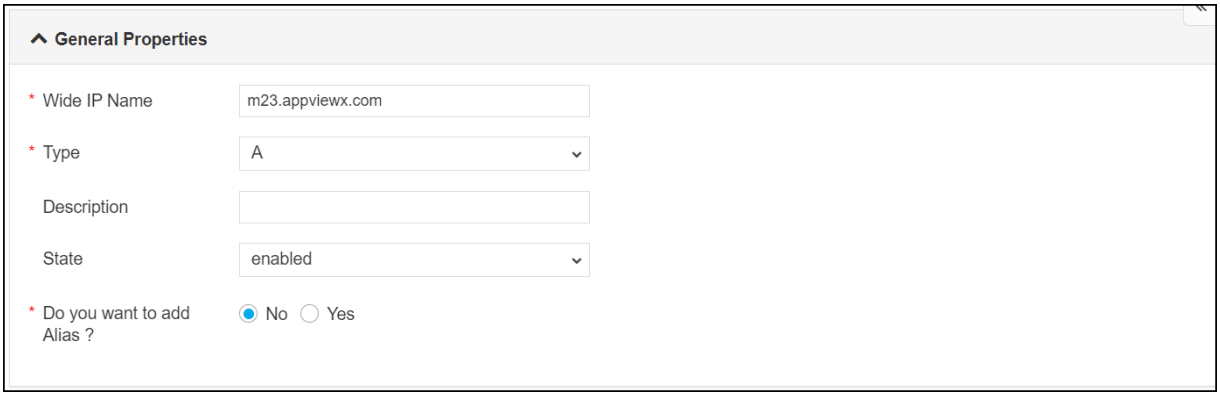
7. The following table provides the field description for the **DNS Details** section of Form Input:

Field	Description
*Do you want to integrate with DNS	By default, the **No** option is selected. If you want to integrate with DNS for CNAME record creation, select **Yes**. When you select **Yes**, the following fields are displayed:  Select the **Vendor** from the drop-down list. The default vendors are: **Infoblox** and **bluecat**. When you select DNS vendor as **Infoblox**, you need to provide the following details:

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Field	Description
	• Select the **Device Name** from the drop-down list. • Enter the **App Name** for the WideIP name in the format www.<name>.com. When you select DNS vendor as **bluecat**, you need to provide the following details:  • Select the **Device Name** from the drop-down list. • Select the **Configuration** from the drop-down list. • Select the **View** for the selected configuration. The options are displayed based on the selected configuration. • Enter the **App Name** for the WideIP name in the format of www.<name>.com.

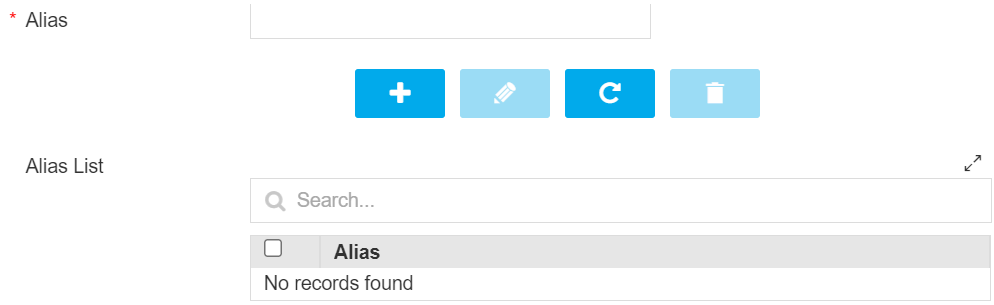
8. Enter or select the field information in the **General Properties** section of Form Input.



9. The following table provides the field description for the **General Properties** section of Form Input:

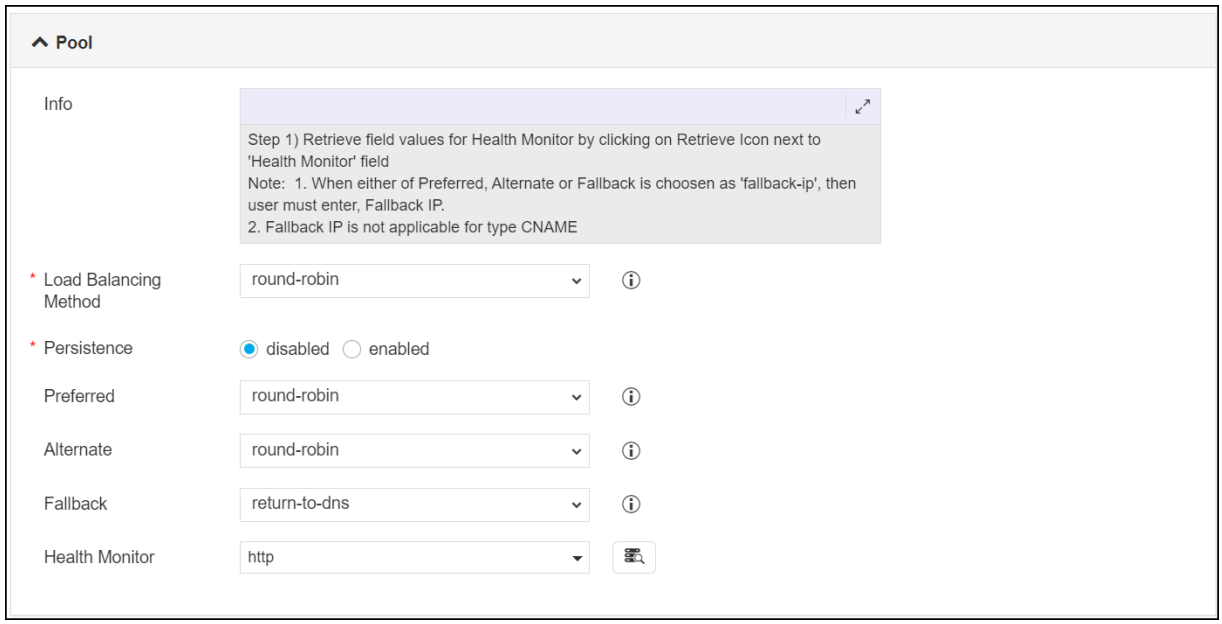
Field	Description
*Wide IP Name	Enter the WideIP Name in the FQDN format. For example, <yyy>.www.<name>.com.

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Field	Description
*Type	Select the pool/WideIP type. The types are: • **A** - the pool/Wide IP responds to A queries. The A pool/Wide IP is a mapping of an FQDN to a set of IPv4 virtual servers that host the domain's content, such as a Web site or an e-commerce site. You can also specify pool members' virtual server and ratio settings. • **CNAME** - the pool/Wide IP responds to CNAME queries. A CNAME pool/Wide IP is a mapping of an FQDN to its canonical name. This is the configuration of a static name or a Wide IP name. Static names support older configurations. Wide IP names allow service checking, enhanced load balancing, and CNAME chasing in the reply. You can also specify pool members' ratio.
Description	Enter the descriptive text to identify the WideIP.
State	It allows the system to use this wide IP and its resources for load balancing. The options are: • **enabled** (default) • **disabled**
*Do you want to add Alias ?	Add Alias for the WideIP name. The options are: • **No** (default) • **Yes** – When you select **Yes**, the following fields are displayed to add alias details:  Enter the alias name for WideIP in the Alias field. You can add any number of aliases for WideIP. After entering the alias in the Alias field, click  to add an alias. The added aliases are displayed under the Alias List. You can manage the added alias(es) to the list.

10. Enter or select the field information in the **Pool** section of Form Input.

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Note: The pool will be created with the name pool_<wideip_name>.

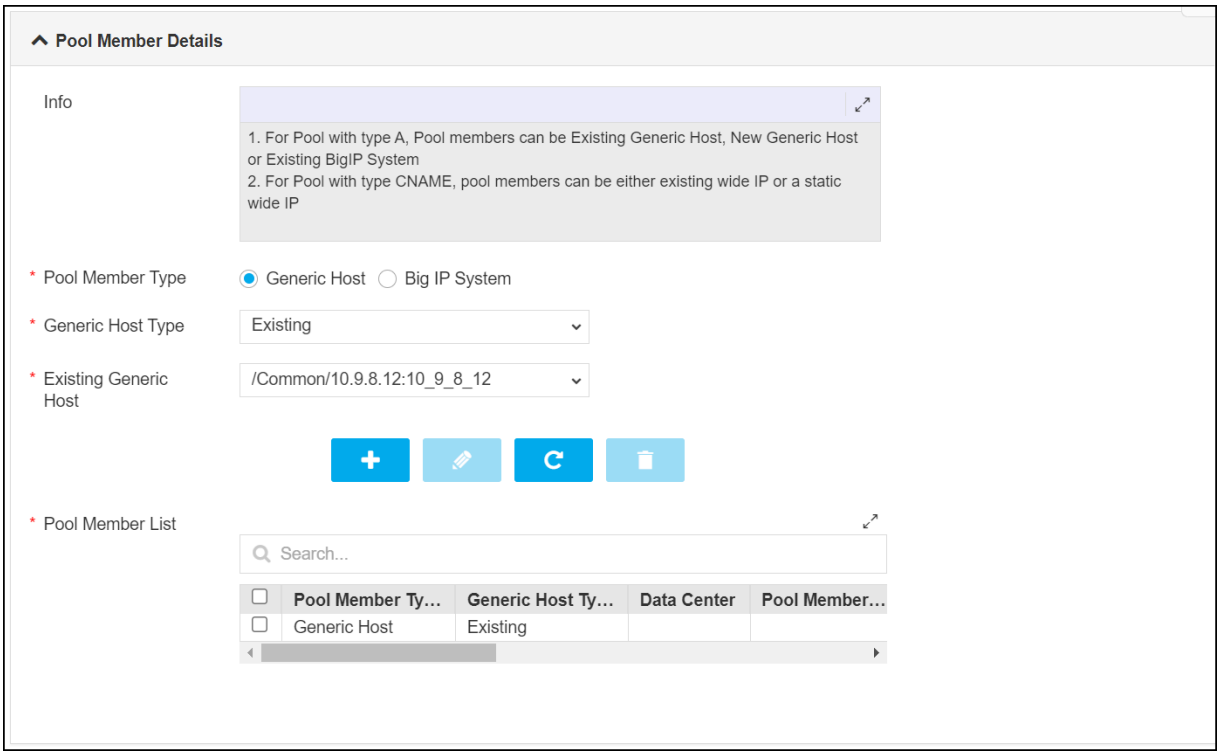
11. The following table provides the field description for the **Pool** section of Form Input:

Field	Description
*Load Balancing Method	The load balancing method is used to select a pool in this WideIP. The methods are: • **round-robin** - the system selects the pools sequentially. • **global-availability** -. the system selects a pool by following the order of the Pool List. The system repeatedly selects the first pool in the list for as long as its status is available. If the pool becomes unavailable for any reason, the system then repeatedly selects the next pool in the list, and so on. • **ratio** - the system selects a pool based on the ratio that you assign to the pool.
*Persistence	By default, this option is disabled. When, a local DNS makes repetitive requests on behalf of a client, the system reconnects the client to the same resource as previous requests.
Preferred	Select the preferred load balancing method. The system tries this method first. **Note:** When you choose the **fallback-ip** option, the Fallback IP field will be displayed and you need to input the Fallback IP.

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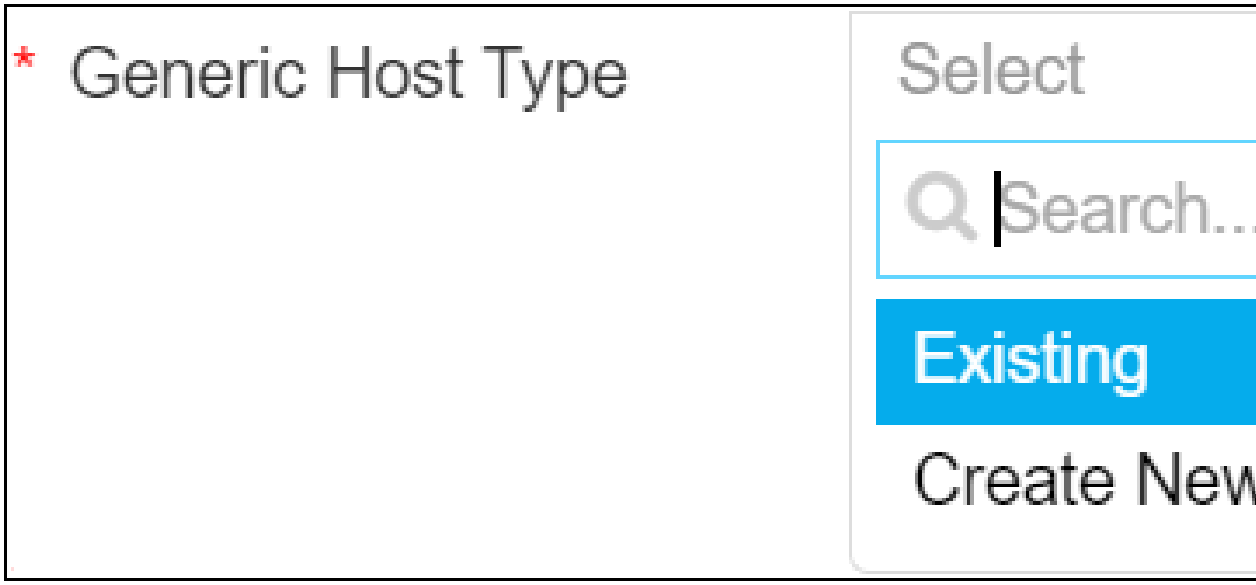
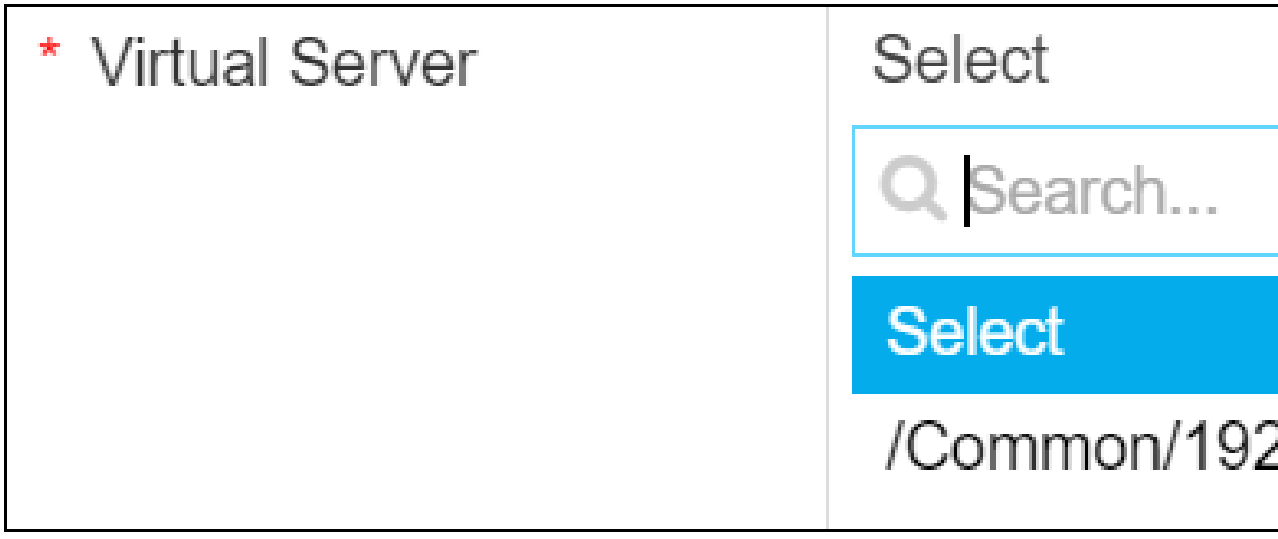
Field	Description
Alternate	Select the alternate load balancing method. The system tries this method if the Preferred method is unsuccessful in picking the WideIP. **Note:** When you choose the **fallback-ip** option, the Fallback IP field will be displayed and you need to input the Fallback IP.
Fallback	Select the alternate load balancing method. The system tries this method if the Preferred and Alternate methods are unsuccessful in picking the WideIP.
Fallback IP	When the **fallback-ip** option is selected as Preferred or Alternate load balancing method, this field will be displayed to add the Fallback IP. The **Fallback IP** is not applicable for the pool type **CNAME**.
Health Monitor	The health monitors that the system uses to determine whether it can use this pool for load balancing. To get the fields to be monitored, click the **Retrieve**  button, and then select the

12. Enter or select the field information in the **Pool Member Details** section of Form Input.

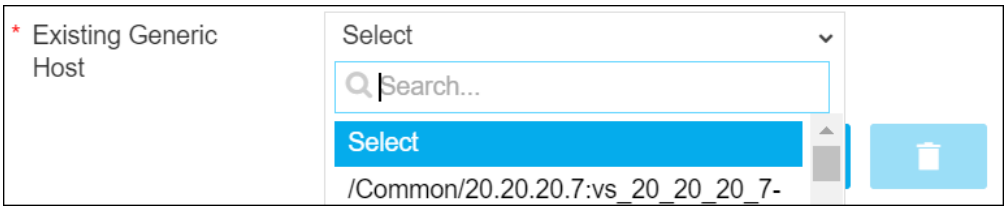


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13. The following table provides the field description for the **Pool Member Details** section of Form Input:

Field	
*Pool Member Type	Select the pool member types. The pool member types are: • **Generic Host** – When you select this pool member type, you get the option to select the Generic Host Typ  • **Big IP System** – When you select this pool member type, you get the option to select the configured virtua  **Note:** It takes a while to load the servers.

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Field	
*Generic Host Type	When the pool member type is selected as Generic Host, you need to select the type of generic host. The ge • **Existing** – This option allows to select the existing host. When you select this option, the existing generic h  • **Create New** – This option allows you to create a generic host. When you select this, the following fields ar • ***Data Center** – select the datacenter of the pool member. • ***Pool Member IP** – enter the IP of the pool. • ***Port** – enter the port of the pool member.
*Virtual Server	When the pool member type is selected as Big IP System. Select a virtual server from the dropdown list.
*Pool Member List	Enter the pool member details, and then click the Add  button. The pool member details are added to th **Note:** For Pool with type CNAME, pool members can be either existing wide IP or a static wide IP.

14. Click the **Submit** button.

    The **Confirmation** popup opens.

> **Note:**
> • If you want to save this form to edit it later, click the **Save Draft** button, and then click **Ok** in the **Confirmation** popup window. The form will be saved as **Open** request under **Request** > **My Request**.
> • If you want to cancel this form, click the **Cancel** button.

15. Click **Ok** to submit the form.

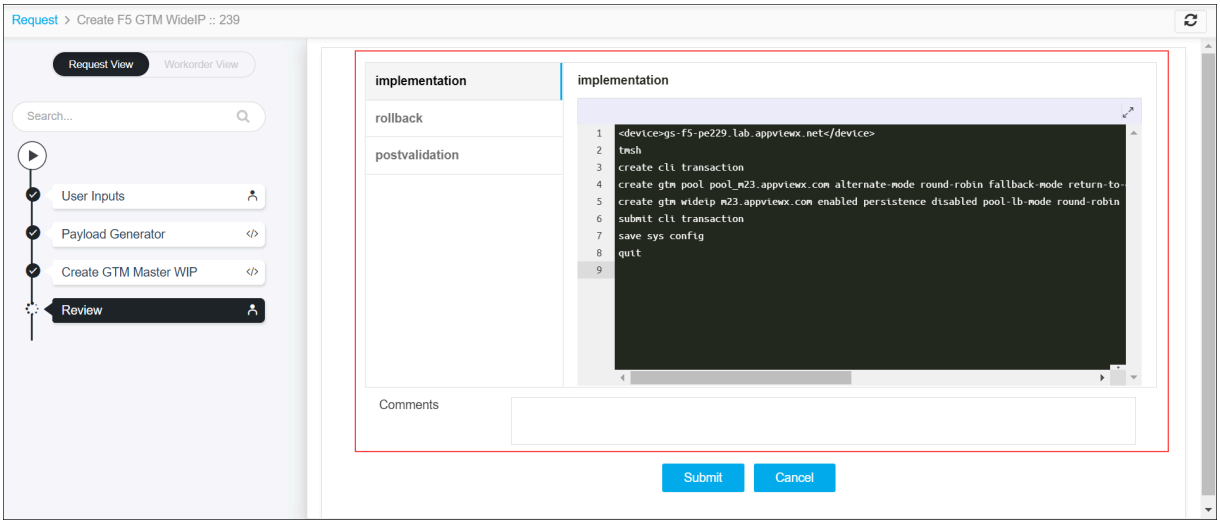
    The validation starts automatically and reaches the **Review** stage.

> **Note:**

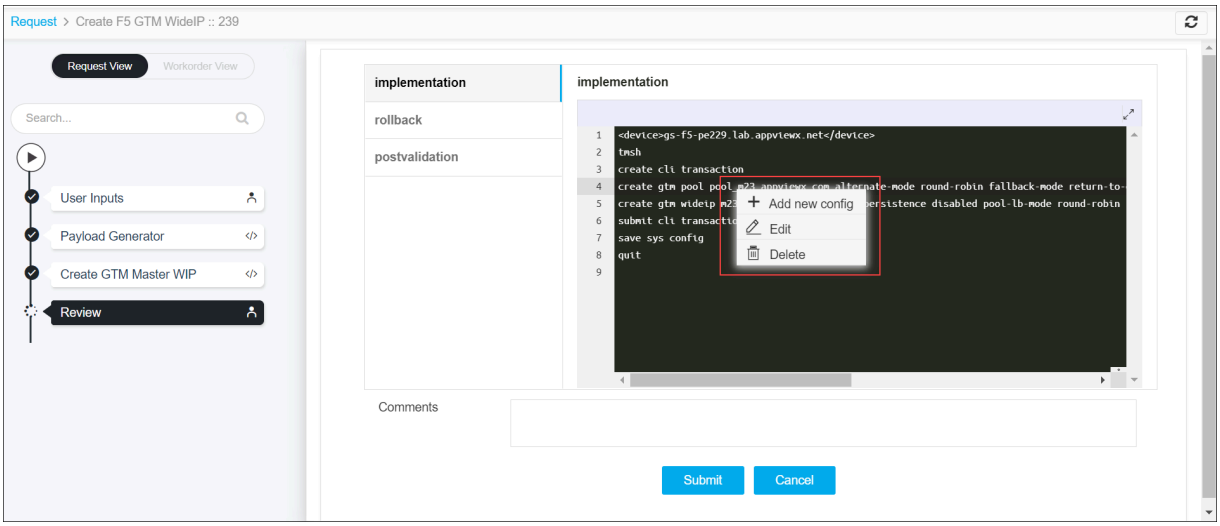
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- If there is any failure at this stage, start a new request by providing the correct data.
- Alternatively, select the failed request and clone it. Update the correct input data in the form input, and submit the workflow again.

16. Review the input data under the **implementation**, **rollback**, and **postvalidation** tabs:



17. (Optional) If you need to update any data at this stage, you can do so by clicking the right-side of the mouse on the data and selecting the desired option.



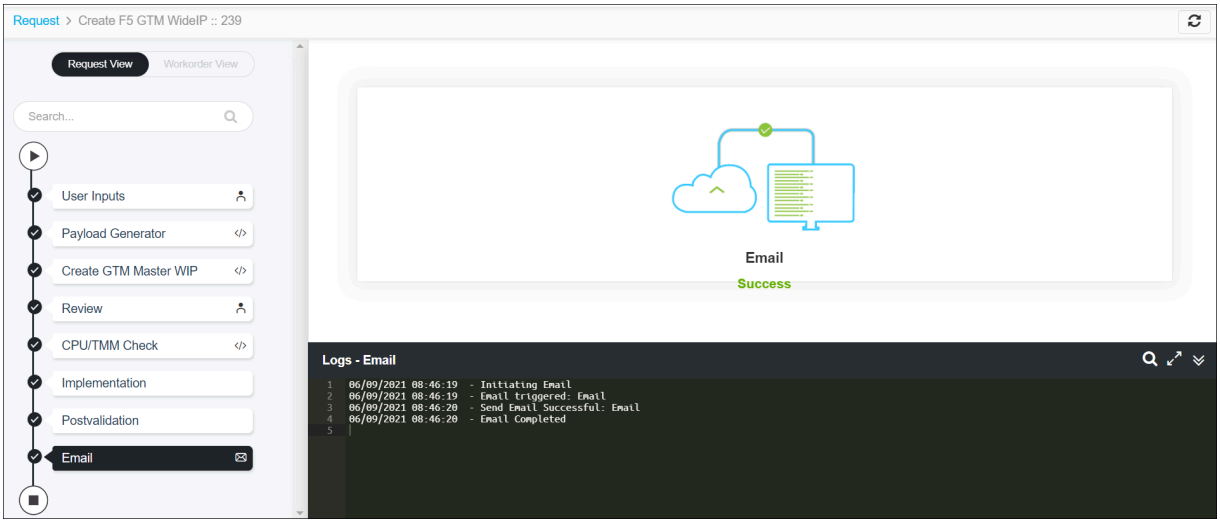
18. After the review, click the **Submit** button.

    The Confirmation popup opens.

Note: To stop running the workflow creation, click **Cancel**.

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19. Click **Ok** to continue the workflow creation.
    It takes a while to complete the request.
20. The workflow is created and the email is triggered to the configured email IDs.



Note: The stages of the request are shown in the left side of the screen. To view a particular stage of the request, click the respective stage.

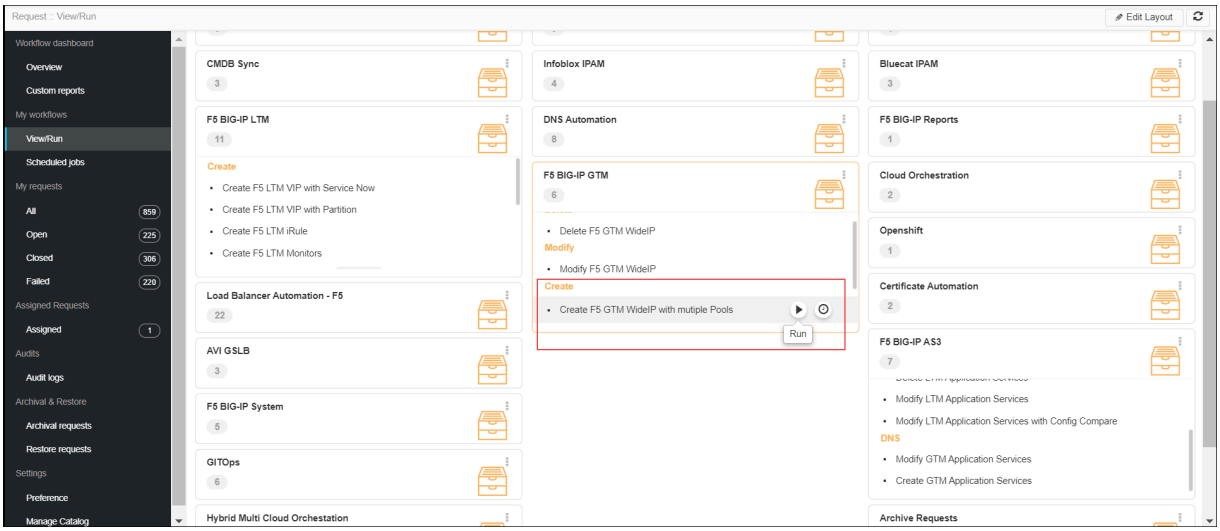
Create F5 GTM WideIP with Multiple Pools

This workflow creates a GTM WideIP with multiple pools.

To run this workflow,

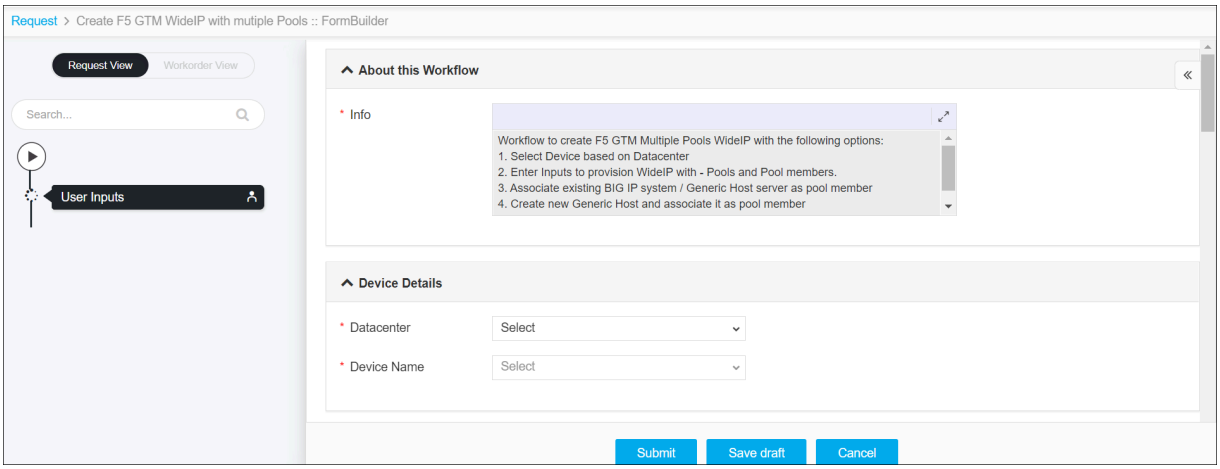
1. Go to ☰ **Menu** > **Request** > **View/Run**.
   The Workflow Catalog page appears.
2. In the Workflow Catalog page, hover over the **Create F5 GTM WideIP with multiple Pools** workflow.
   The Run and Schedule buttons are shown.

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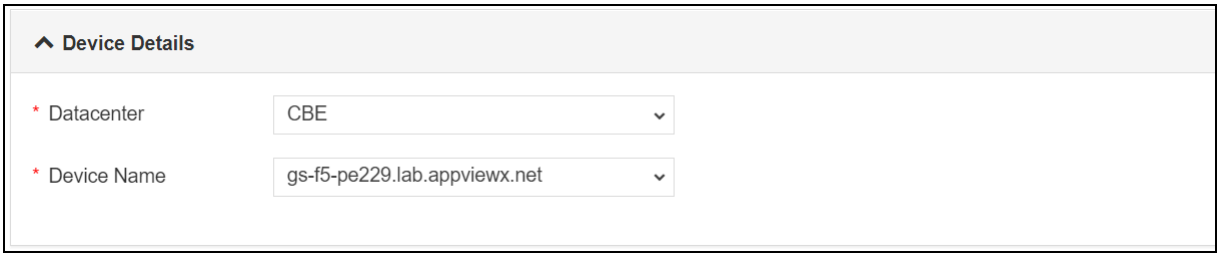


3. Click the Run  button.

   The Form Input page opens:



4. Enter or select the field information in the **Device Details** section of Form Input.



5. The following table provides the field description for the **Device Details** section of Form Input:

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Field	Description
*Datacenter	Displays the list of datacenters of the devices, which are created in the Device Inventory. Select the datacenter of a device from the drop-down option for which this request is to be created. For the devices which are created without datacenter in the Device Inventory, select the datacenter as **None**.
*Device Name	Displays the list of devices associated with the selected datacenter. If the datacenter is selected as **None**, the devices that are created without datacenter details are listed. Select the desired device from the drop-down option.

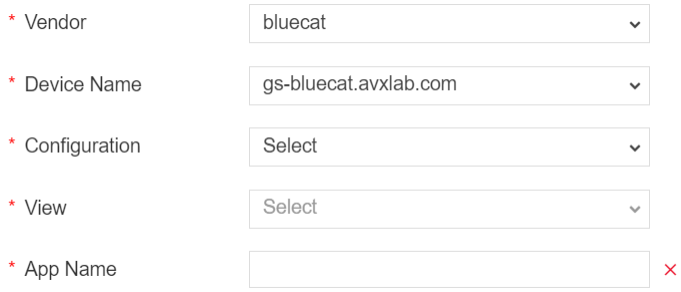
6. Enter or select the field information in the **DNS Details** section of Form Input.



7. The following table provides the field description for the **DNS Details** section of Form Input:

Field	Description
*Do you want to integrate with DNS	By default, the **No** option is selected. If you want to integrate with DNS for CNAME record creation, select **Ye** When you select **Yes**, the following fields are displayed:  Select the **Vendor** from the drop-down list. The default vendors are: **Infoblox** and **bluecat**. When you select DNS vendor as **Infoblox**, you need to provide the following details: • Select the **Device Name** from the drop-down list. • Enter the **App Name** for the WideIP name in the format www.<name>.com.

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Field	Description
	When you select DNS vendor as **bluecat**, you need to provide the following details:  • Select the **Device Name** from the drop-down list. • Select the **Configuration** from the drop-down list. • Select the **View** for the selected configuration. The options are displayed based on the selected configurat • Enter the **App Name** for the WideIP name in the format of www.<name>.com.

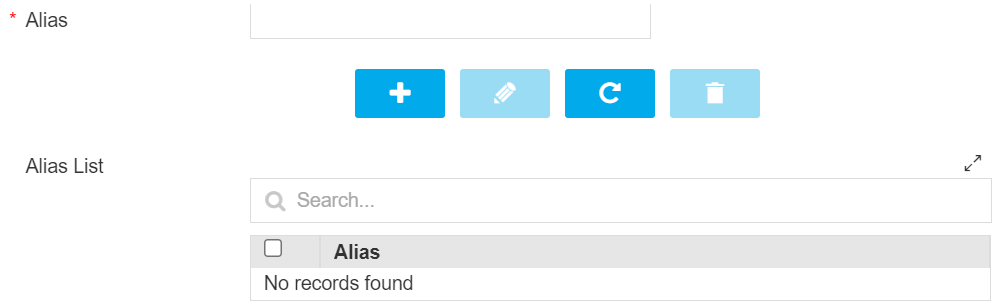
8. Enter or select the field information in the **General Properties** section of Form Input.



9. The following table provides the field description for the **General Properties** section of Form Input:

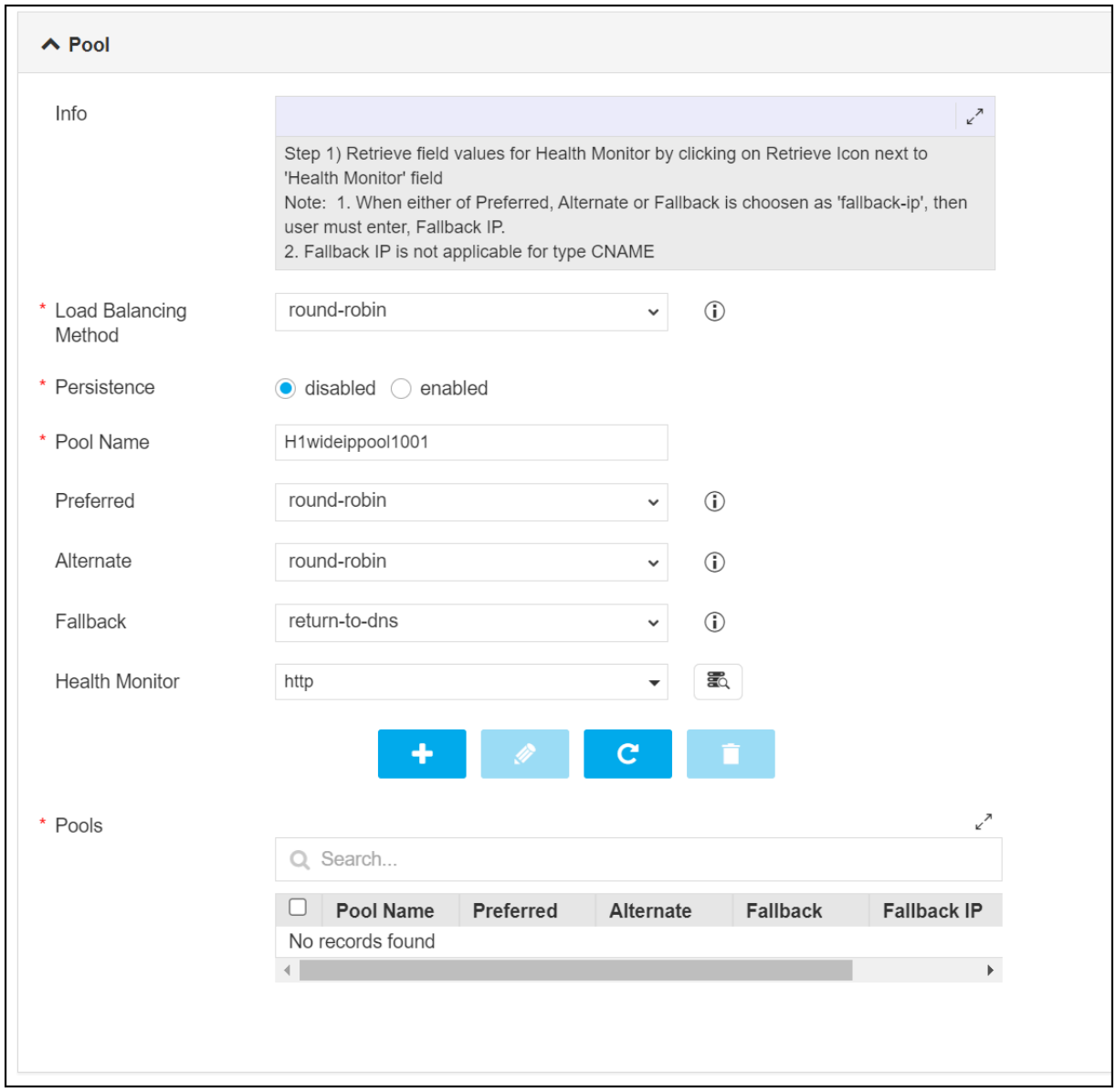
Field	Description
*Wide IP Name	Enter the WideIP Name in the FQDN format.

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Field	Description
*Type	Select the pool/WideIP type. The types are: • **A** - the pool/Wide IP responds to A queries. The A pool/Wide IP is a mapping of a FQDN to a set of IPv4 virtual servers that host the domain's content, such as a Web site or an e-commerce site. You can also specify pool members' virtual server and ratio settings • **CNAME** - the pool/Wide IP responds to CNAME queries. A CNAME pool/Wide IP is a mapping of a FQDN to its canonical name. This is the configuration of a static name or a Wide IP name. Static names support older configurations. Wide IP names allow service checking, enhanced load balancing, and CNAME chasing in the reply. You can also specify the pool members' ratio.
Description	Enter the descriptive text to identify the WideIP.
State	Allows the system to use this wide IP and its resources for load balancing. The options are: • **enabled** (default) • **disabled**
*Do you want to add Alias ?	Add Alias to the WideIP name. The options are: • **No** (default) • **Yes** – When you select **Yes** the following fields are displayed to add alias details:  Enter the alias name for WideIP in the Alias field. You can add any number of aliases for WideIP. After entering the alias in the Alias field, click  to add an alias. The added aliases are displayed under the Alias List. You can manage the added alias(es) to the list.

10. Enter or select the field information in the **Pool** section of Form Input.

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11. The following table provides the field description for the **Pool** section of Form Input:

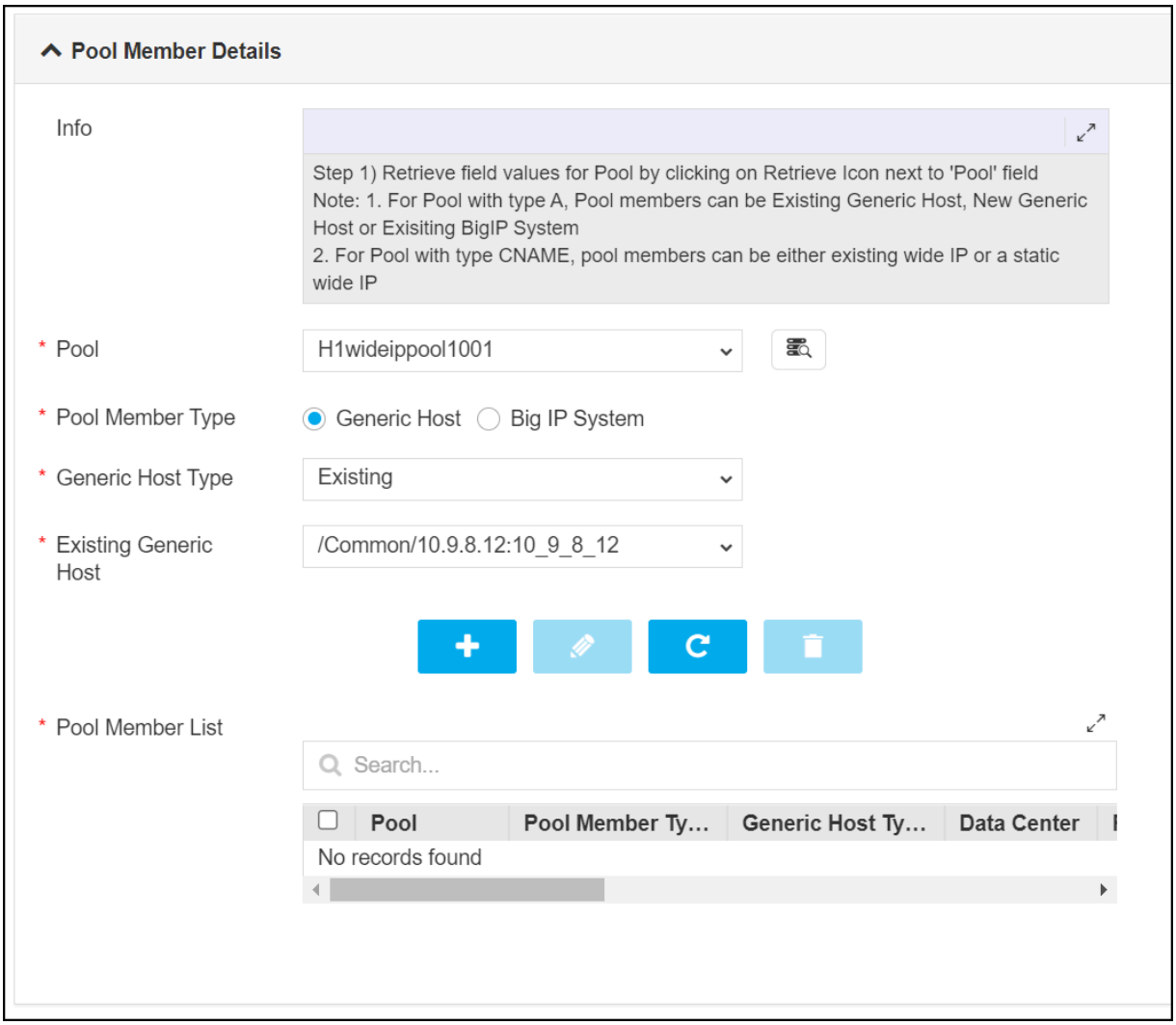
Field	Description
Info	Information that are to be noted while entering the details in this section.
*Load Balancing Method	The load balancing method used to select a pool in this WideIP. The methods are: • **round-robin** - the system selects the pools sequentially. • **global-availability** -. the system selects a pool by following the order of the Pool List. The system repeatedly selects the first pool in the list for as long as its status

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Field	Description
	is available. If the pool becomes unavailable for any reason, the system then repeatedly selects the next pool in the list, and so on. • **ratio** - the system selects a pool based on the ratio that you assign to the pool.
*Persistence	By default, this option is disabled. When enabled, a local DNS makes repetitive requests on behalf of a client, the system reconnects the client to the same resource as previous requests.
*Pool Name	Enter the pool name.
Preferred	Select the preferred load balancing method. The system tries this method first. **Note:** When you choose the **fallback-ip** option, the Fallback IP field will be displayed and you need to input the Fallback IP.
Alternate	Select the alternate load balancing method. The system tries this method if the Preferred method is unsuccessful in picking the WideIP. **Note:** When you choose the **fallback-ip** option, the Fallback IP field will be displayed and you need to input the Fallback IP.
Fallback	Select the alternate load balancing method. The system tries this method if the Preferred and Alternate methods are unsuccessful in picking the WideIP.
Fallback IP	When the **fallback-ip** option is selected as Preferred or Alternate load balancing method, this field will be displayed to add the Fallback IP. The **Fallback IP** is not applicable for the pool type **CNAME**.
Health Monitor	The health monitors that the system uses to determine whether it can use this pool for load balancing. To get the fields to be monitored, click the **Retrieve**  button, and then select the
Pools	Click the Add () button to add the pool details to the list. You can add multiple to pool to the list. After adding pool(s) to the list, you can manage them.

12. Enter or select the field information in the **Pool Member Details** section of Form Input.

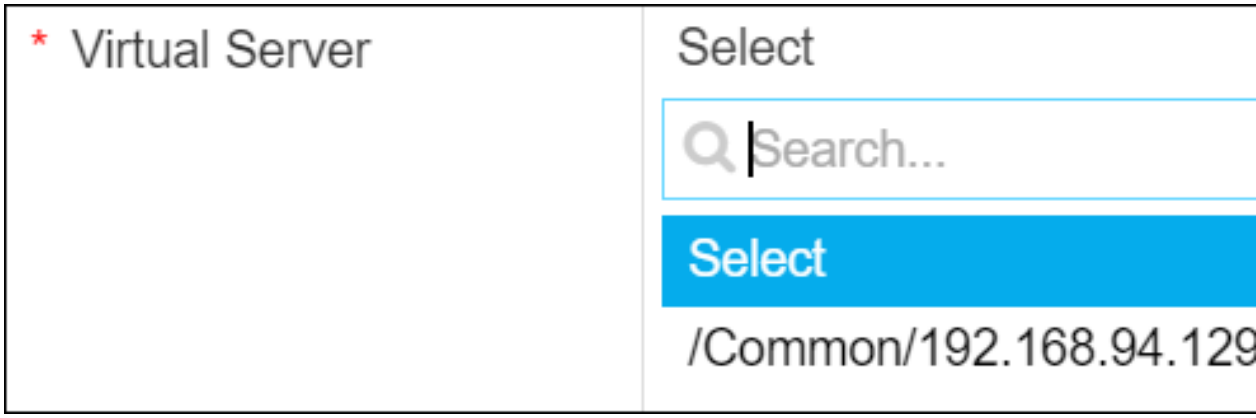
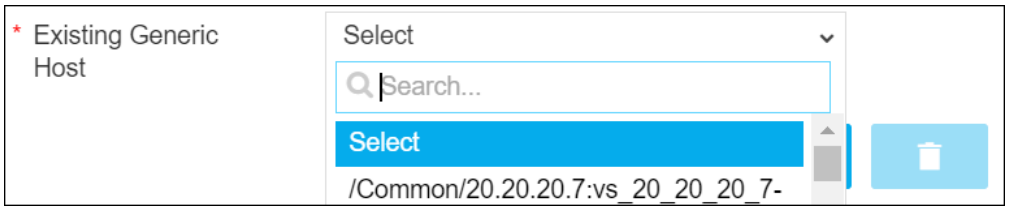
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13. The following table provides the field description for the **Pool Member Details** section of Form Input:

Field	Description
Info	Information that is to be noted while entering the details in this section.
Pool	Click the **Retrieve**  button to get the pool name.
Pool Member Type	Select the pool member types. The pool member types are: • **Generic Host** – When you select this pool member type, you get the option to select the Generic Host Typ

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Field	Description
	 • **Big IP System** – When you select this pool member type, you get the option to select the configured virtua  **Note:** It takes a while to load the servers.
*Generic Host Type	When the pool member type is selected as Generic Host, you need to select the type of generic host. The ge • **Existing** – This option allows to select the existing host. When you select this option, the existing generic h 

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Field	Description
	• **Create New** – This option allows you to create a generic host. When you select this, the following fields ar • ***Data Center** – select the datacenter of the pool member. • ***Pool Member IP** – enter the IP of the pool. • ***Port** – enter the port of the pool member.
*Virtual Server	When the pool member type is selected as Big IP System. Select a virtual server from the dropdown list.
*Pool Member List	Enter the IP address of the pool member. And then click the Add  button. Any number of pool numbers

14. Click the **Submit** button.

    The **Confirmation** popup opens.

> **Note:**
> • If you want to save this form to edit it later, click the Save Draft button, and then click Ok in the Confirmation popup window. The form will be saved as Open request under Request > My Request.
> • If you want to cancel this form, click the Cancel button.

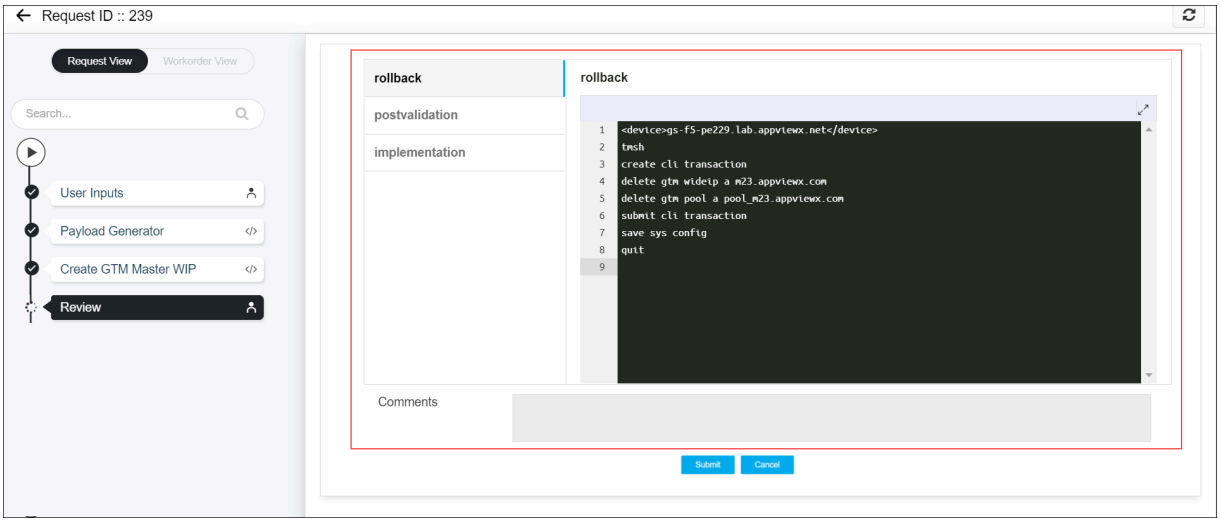
15. Click **Ok** to submit the form.

    The validation starts automatically and reaches the **Review** stage.

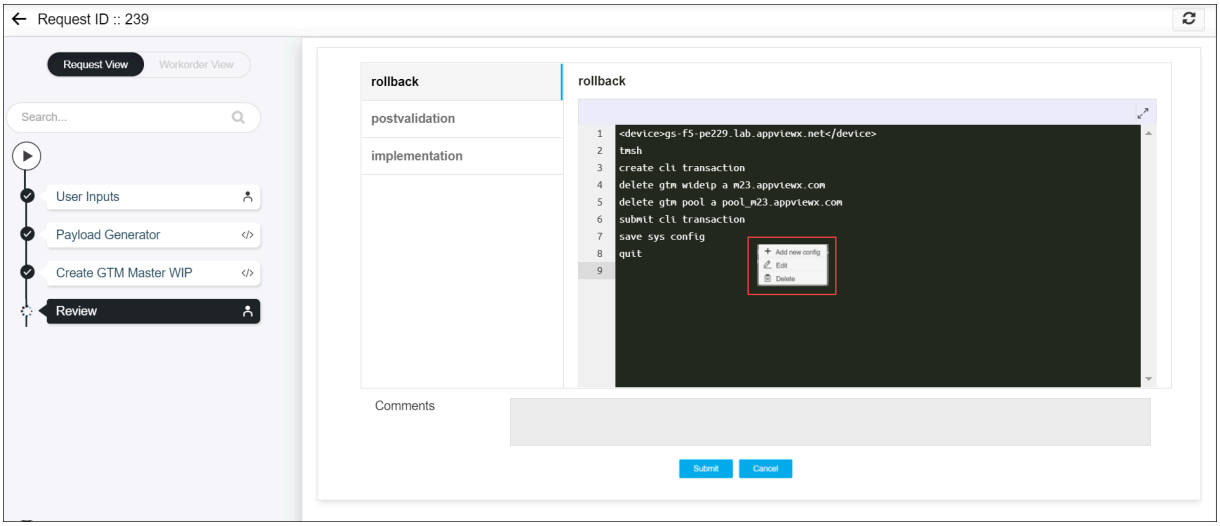
> **Note:**
> • If there is any failure at this stage, start a new request by providing the correct data.
> • Alternatively, select the failed request and clone it. Update the correct input data in the form input, and submit the workflow again.

16. Review the input data under the **implementation**, **rollback**, and **postvalidation** tabs:

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17. (Optional) If you need to update any data at this stage, you can do so by clicking the right-side of the mouse on the data and selecting the desired option.



18. After the review, click the **Submit** button.

    The **Confirmation** popup opens.

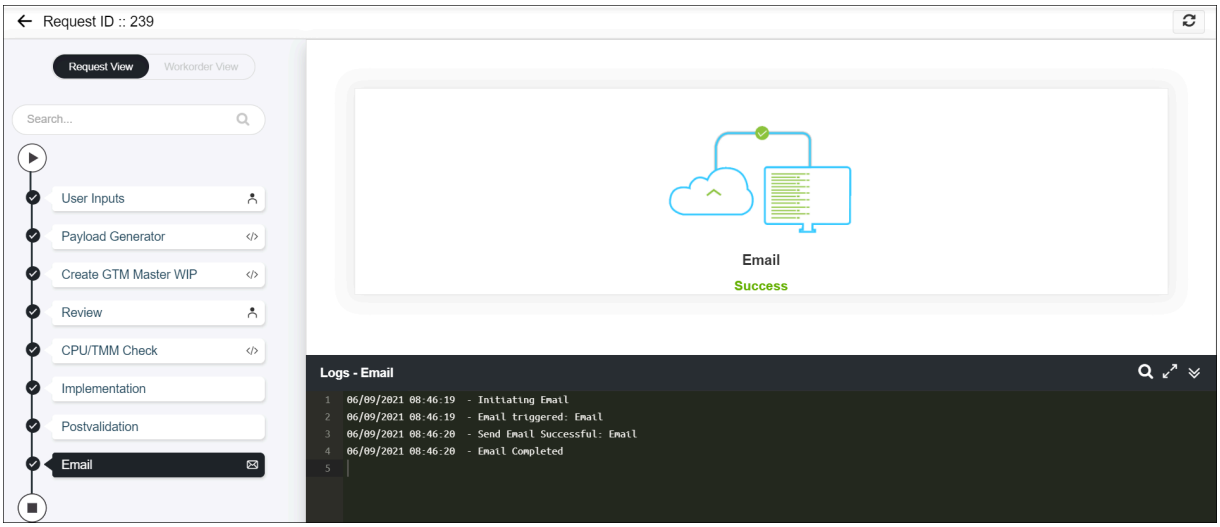
> **Note:** Click Cancel to stop running the workflow creation.

19. Click **Ok** to continue the workflow creation.

    It takes a while to complete the request.

20. The workflow is created and the email is triggered to the configured email IDs.

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Note: The stages of the request are shown in the left side of the screen. To view a particular stage of the request, click the respective stage.

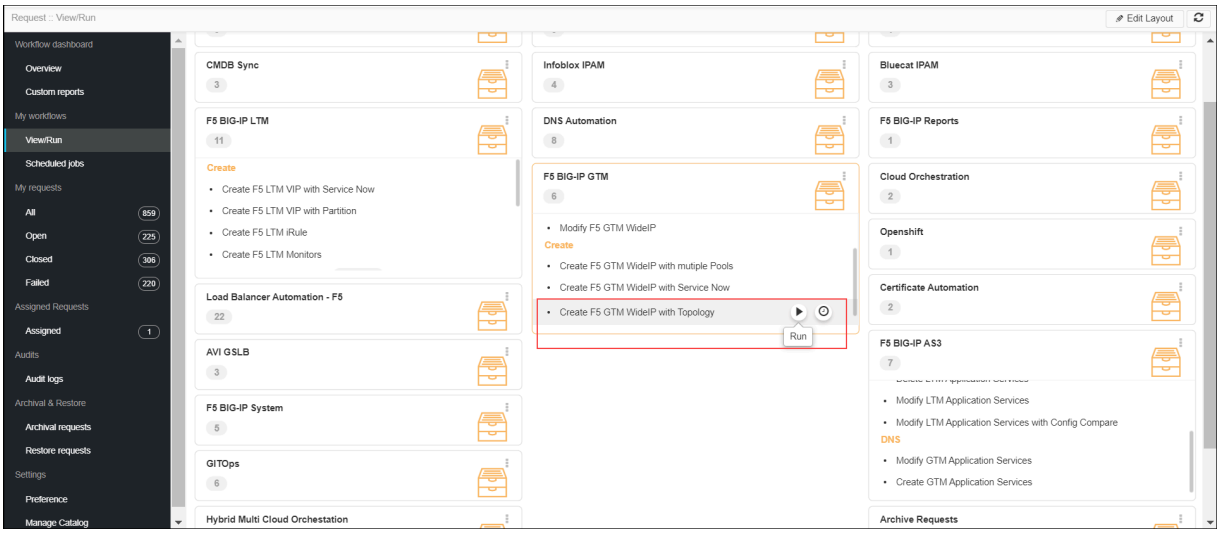
Create F5 GTM WideIP with Topology

This workflow creates a WideIP with multiple Pools and chooses a topology record for the pools that are created.

To run this workflow,

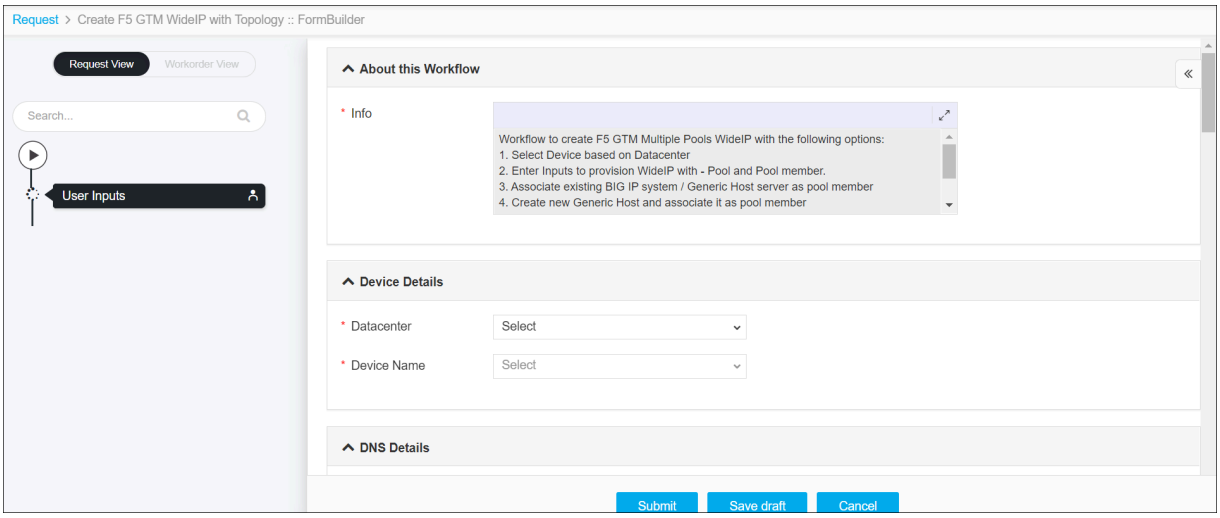
1. Go to **Menu** > **Request** > **View/Run**.
   The Workflow Catalog page appears.
2. In the Workflow Catalog page, hover over the **Create F5 GTM WideIP with Topology** workflow.
   The Run and Schedule buttons is shown.

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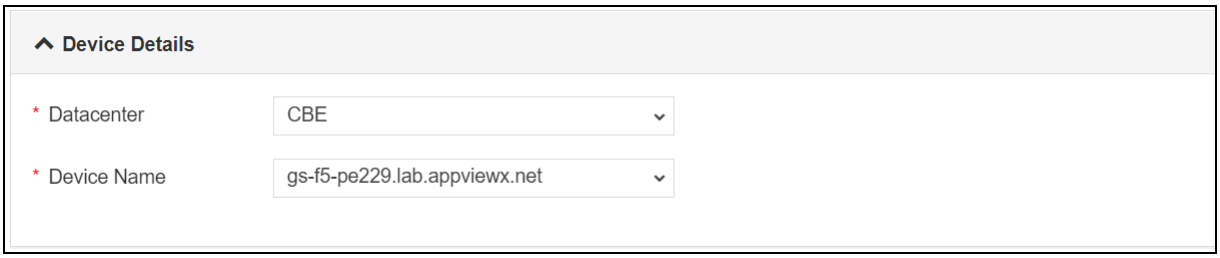


3. Click the Run  button.

   The Form Input page opens:



4. Enter or select the field information in the **Device Details** section of Form Input.



5. The following table provides the field description for the **Device Details** section of Form Input:

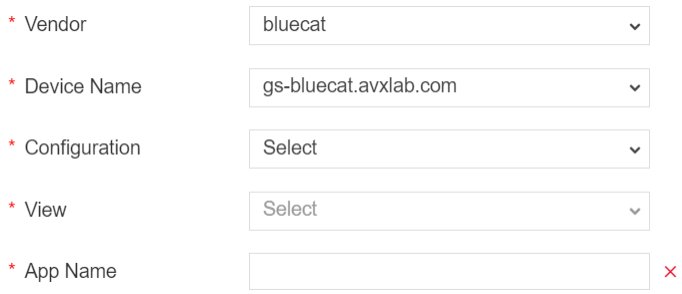
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Field	Description
Datacenter	Displays the list of datacenters of the devices, which are created in the Device Inventory. Select the datacenter of a device from the drop-down option for which this request is to be created. For the devices which are created without a datacenter in the Device Inventory, select the datacenter as **None**.
*Device Name	Displays the list of devices associated with the selected datacenter. If the datacenter is selected as **None**, the devices that are created without datacenter details are listed. Select the desired device from the drop-down option.

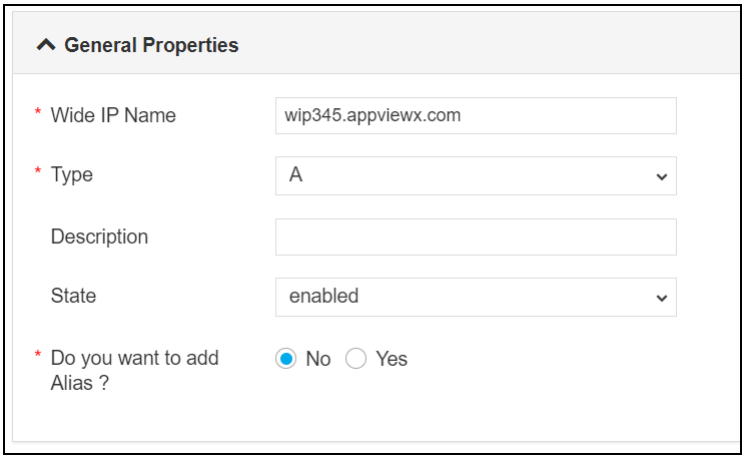
6. Enter or select the field information in the **DNS Details** section of Form Input.



7. The following table provides the field description for the **DNS Details** section of Form Input:

Field	Description
*Do you want to integrate with DNS	By default, the No option is selected. If you want to integrate with DNS for CNAME record creation, select Ye When you select Yes, the following fields are displayed:  Select the Vendor from the drop-down list. The default vendors are **Infoblox** and **bluecat**. When you select DNS vendor as **Infoblox**, you need to provide the following details:

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Field	Description
	• Select the **Device Name** from the drop-down list. • Enter the **App Name** for the WideIP name in the format www.<name>.com. When you select DNS vendor as **bluecat**, you need to provide the following details:  • Select the **Device Name** from the drop-down list. • Select the **Configuration** from the drop-down list. • Select the **View** for the selected configuration. The options are displayed based on the selected configurat • Enter the **App Name** for the WideIP name in the format of www.<name>.com.

8. Enter or select the field information in the **General Properties** section of Form Input.

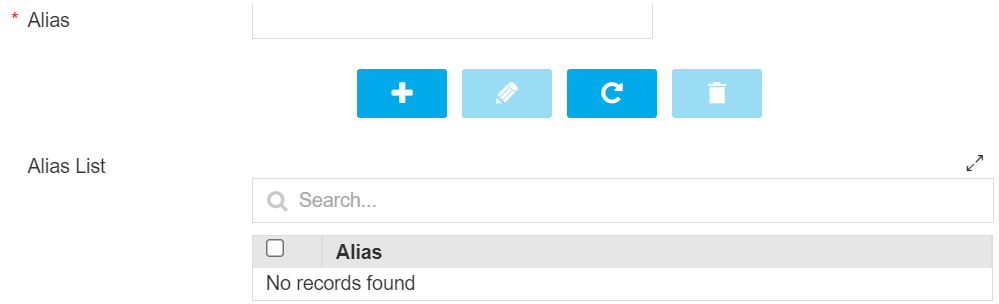
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9. The following table provides the field description for the **General Properties** section of Form Input:

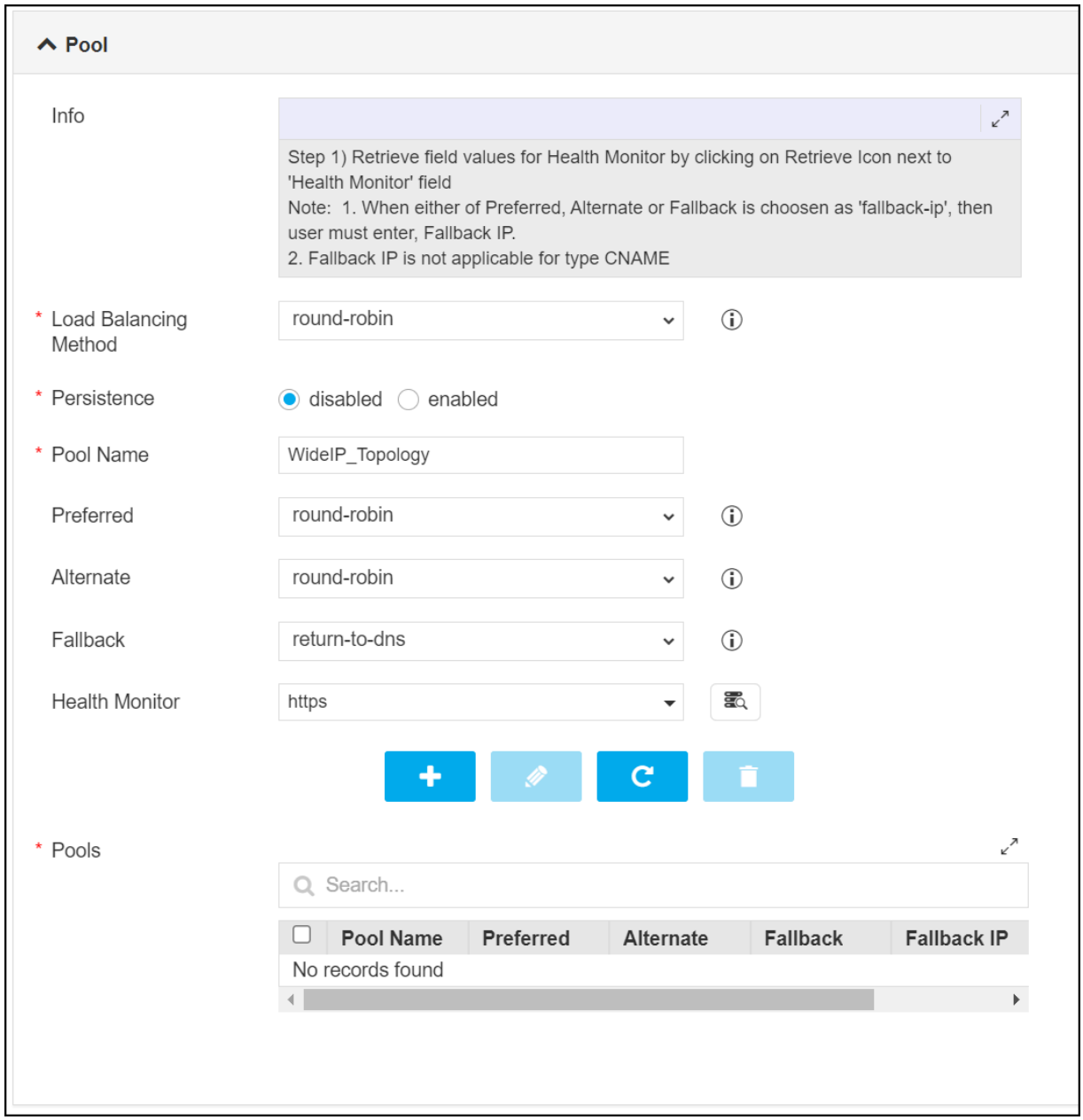
Field	Description
*Wide IP Name	Enter the WideIP Name in the FQDN format.
*Type	Select the pool/WideIP type. The types are: • A - the pool/Wide IP responds to A queries. The A pool/Wide IP is a mapping of an FQDN to a set of IPv4 virtual servers that host the domain's content, such as a Web site or an e-commerce site. You can also specify pool members' virtual server and ratio settings. • CNAME - the pool/Wide IP responds to CNAME queries. A CNAME pool/Wide IP is a mapping of an FQDN to its canonical name. This is the configuration of a static name or a Wide IP name. Static names support older configurations. Wide IP names allow service checking, enhanced load balancing, and CNAME chasing in the reply. You can also specify pool members' ratio.
Description	Enter the descriptive text to identify the WideIP.
State	It allows the system to use this wide IP and its resources for load balancing. The options are:

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Field	Description
	• enabled (default) • disabled
*Do you want to add Alias ?	Add Alias for the WideIP name. The options are: • **No** (default) • **Yes** – When you select Yes the following fields are displayed to add alias details:  Enter the alias name for WideIP in the Alias field. You can add any number of aliases for WideIP. After entering the alias in the Alias field, click  to add an alias. The added aliases are displayed under the Alias List. You can manage the added alias(es) to the list.

10. Enter or select the field information in the **Pool** section of Form Input.

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11. The following table provides the field description for the **Pool** section of Form Input:

Field	Description
Info	Information that is to be noted while entering the details in this section.

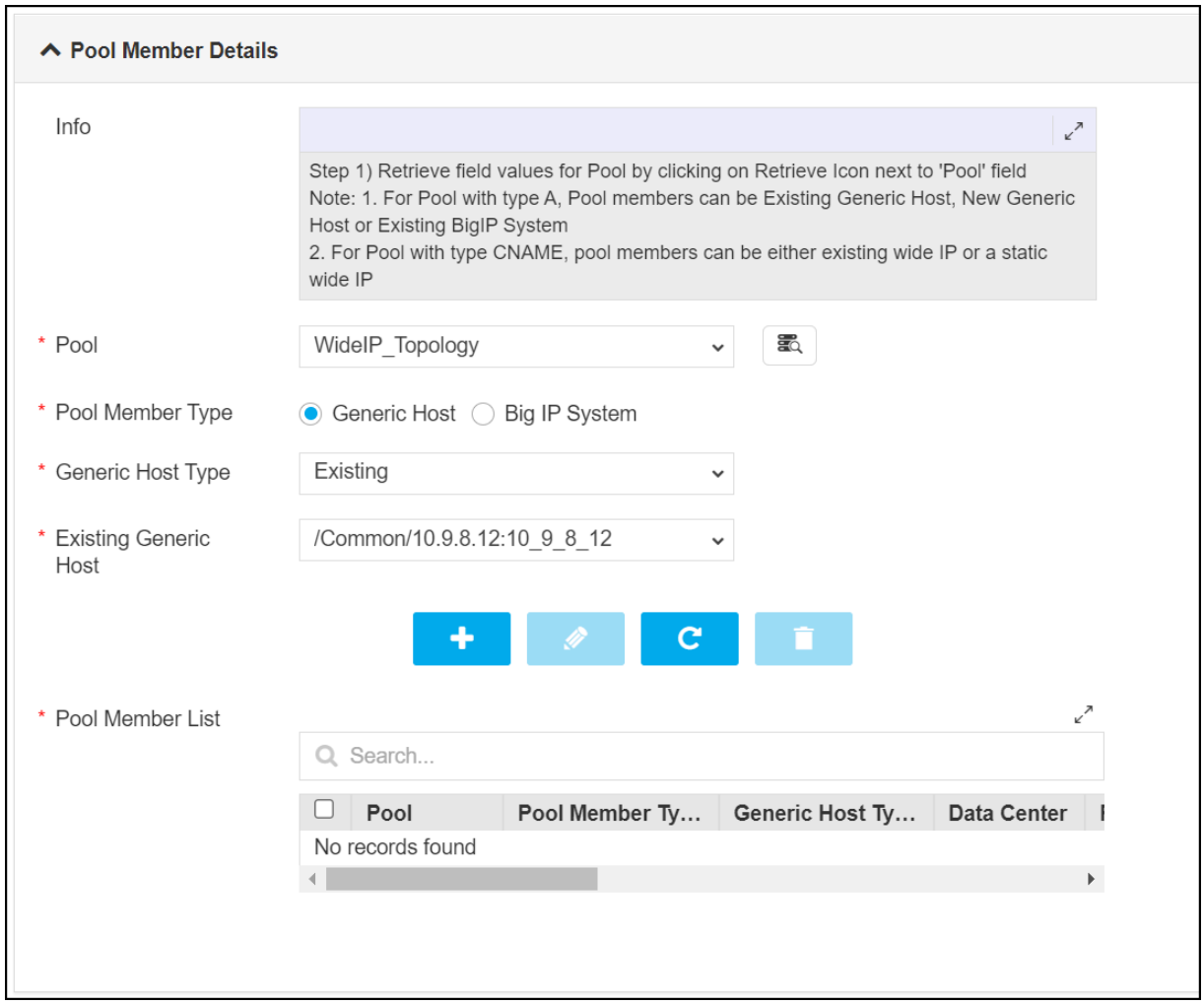
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Field	Description
*Load Balancing Method	The load balancing method is used to select a pool in this WideIP. The methods are: • round-robin - the system selects the pools sequentially. • global-availability -. the system selects a pool by following the order of the Pool List. The system repeatedly selects the first pool in the list for as long as its status is available. If the pool becomes unavailable for any reason, the system then repeatedly selects the next pool in the list, and so on. • ratio - the system selects a pool based on the ratio that you assign to the pool.
*Persistence	By default, this option is disabled. When a local DNS makes repetitive requests on behalf of a client, the system reconnects the client to the same resource as previous requests.
*Pool Name	Enter the pool name.
Preferred	Select the preferred load balancing method. The system tries this method first. **Note:** When you choose the fallback-ip option, the Fallback IP field will be displayed and you need to input the Fallback IP.
Alternate	Select the alternate load balancing method. The system tries this method if the Preferred method is unsuccessful in picking the WideIP. **Note:** When you choose the fallback-ip option, the Fallback IP field will be displayed and you need to input the Fallback IP.
Fallback	Select the alternate load balancing method. The system tries this method if the Preferred and Alternate methods are unsuccessful in picking the WideIP.
Fallback IP	When the fallback-ip option is selected as Preferred or Alternate load balancing method, this field will be displayed to add the Fallback IP. The Fallback IP is not applicable for the pool type CNAME.
Health Monitor	The health monitors that the system uses to determine whether it can use this pool for load balancing. To get the fields to be monitored, click the Retrieve  button, and then select the

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Field	Description
Pools	Click the Add ( ) button to add the pool details to the list. You can add multiple to the pool to the list. After adding pool(s) to the list, you can manage them.

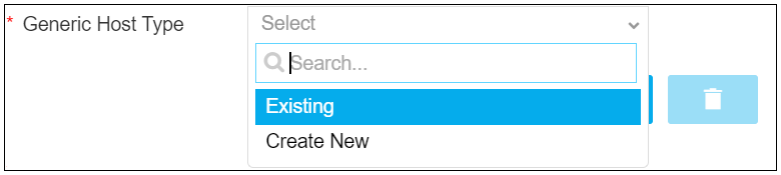
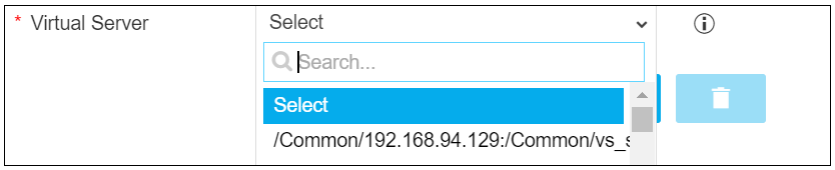
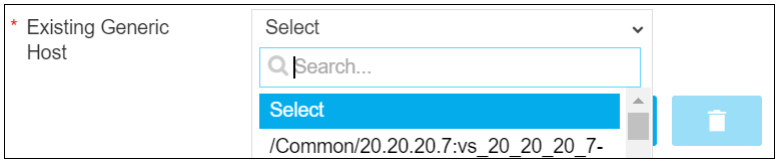
12. Enter or select the field information in the **Pool Member Details** section of Form Input.



13. The following table provides the field description for the **Pool Member Details** section of Form Input:

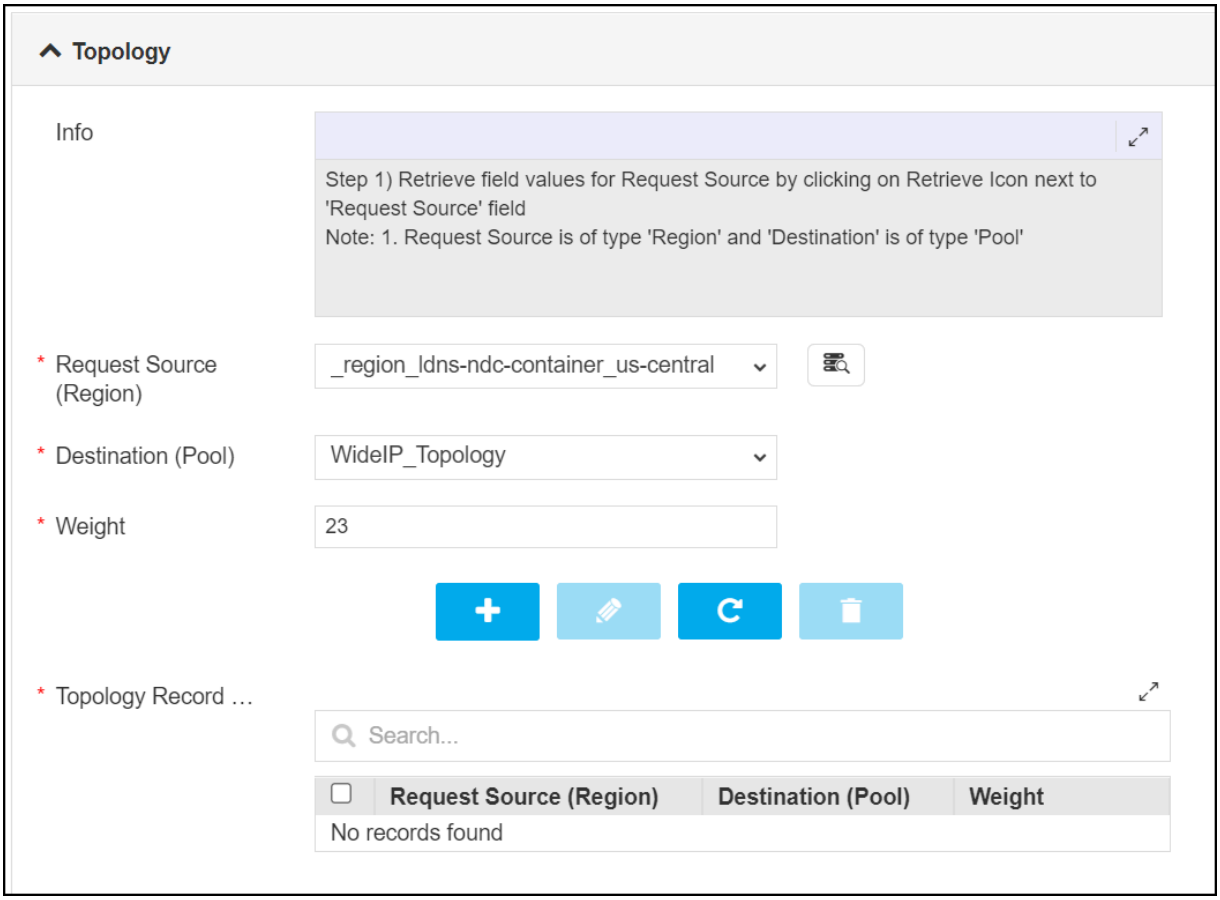
Field	Description
Info	Information that is to be noted while entering the details in this section.
Pool	Click the Retrieve ( ) button to get the pool name.

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Field	Description
Pool Member Type	Select the pool member types. The pool member types are: • **Generic Host** – When you select this pool member type, you get the option to select the Generic Host Typ  • **Big IP System** – When you select this pool member type, you get the option to select the configured virtua  **Note:** It takes a while to load the servers.
*Generic Host Type	When the pool member type is selected as Generic Host, you need to select the type of generic host. The ge • **Existing** – This option allows to select the existing host. When you select this option, the existing generic h  • **Create New** – This option allows you to create a generic host. When you select this, the following fields ar • ***Data Center** – select the datacenter of the pool member. • ***Pool Member IP** – enter the IP of the pool. • ***Port** – enter the port of the pool member.
*Virtual Server	When the pool member type is selected as Big IP System. Select a virtual server from the dropdown list.
*Pool Member List	Enter the IP address of the pool member. And then click the Add  button. Any number of pool numbers

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14. Enter or select the field information in the **Topology** section of Form Input.



15. The following table provides the field description for the **Topology** section of Form Input:

Field	Description
Request Source (Region)	The origination section of the topology record for the pool. Click the Retrieve button to get the list of associated regions.
Destination (Pool)	The target section of the topology record for the pool.
Weight	The weight of the topology record. The system finds the weight of the first topology record that matches the server object (pool or pool member) and the local DNS. The system then assigns that weight as the topology score for that server object. The system load balances to the server object with the highest topology score. If the system

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Field	Description
	finds no topology record that matches both the server object and the local DNS, then the system assigns that server object a zero score.
Topology Record Detail …	After providing the topology details for the pool, click Add icon. The List of topologies is added for the pool. You can manage topology records after adding them.

16. Click the **Submit** button.

    The Confirmation popup opens.

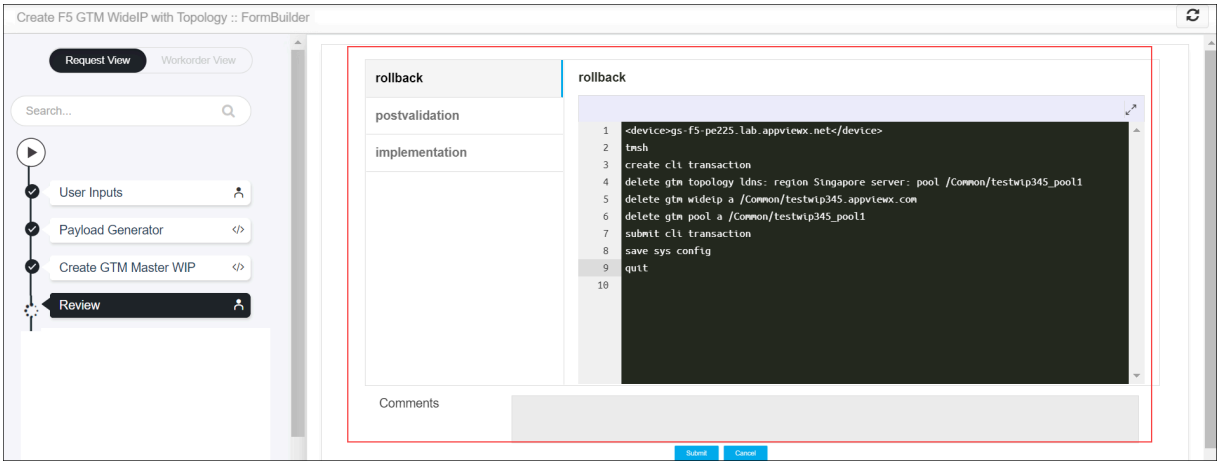
> **Note:**
> - If you want to save this form to edit it later, click the **Save Draft** button, and then click **Ok** in the Confirmation popup window. The form will be saved as Open request under **Request** > **My Request**.
> - If you want to cancel this form, click the **Cancel** button.

17. Click **Ok** to submit the form.

    The validation starts automatically and reaches the **Review** stage.

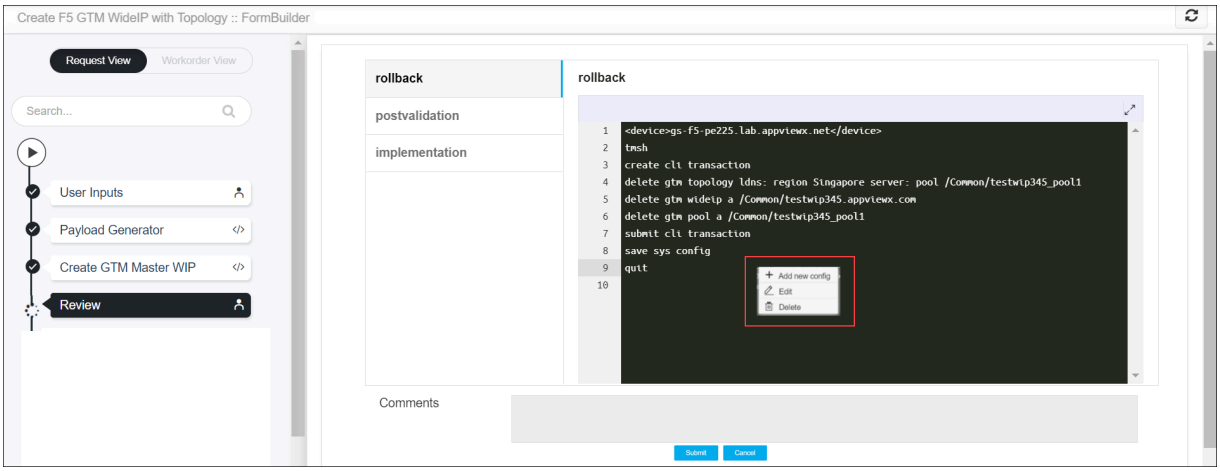
> **Note:**
> - If there is any failure at this stage, start a new request by providing the correct data.
> - Alternatively, select the failed request and clone it. Update the correct input data in the form input, and submit the workflow again.

18. Review the input data under the **implementation**, **rollback**, and **postvalidation** tabs:



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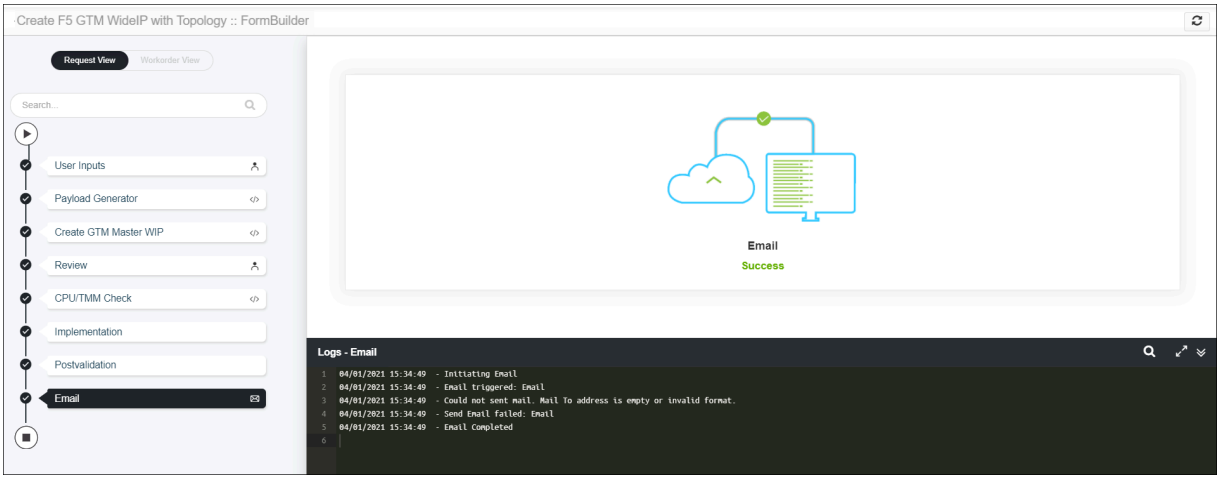
19. (Optional) If you need to update any data at this stage, you can do so by clicking the right side of the mouse on the data and selecting the desired option.



20. After the review, click the **Submit** button.
    The Confirmation popup opens.

> **Note:** To stop running the workflow creation, click **Cancel**.

21. Click **Ok** to continue the workflow creation.
    It takes a while to complete the request.
22. After the successful post-validation, the workflow is created and the email triggered to the configured email IDs.



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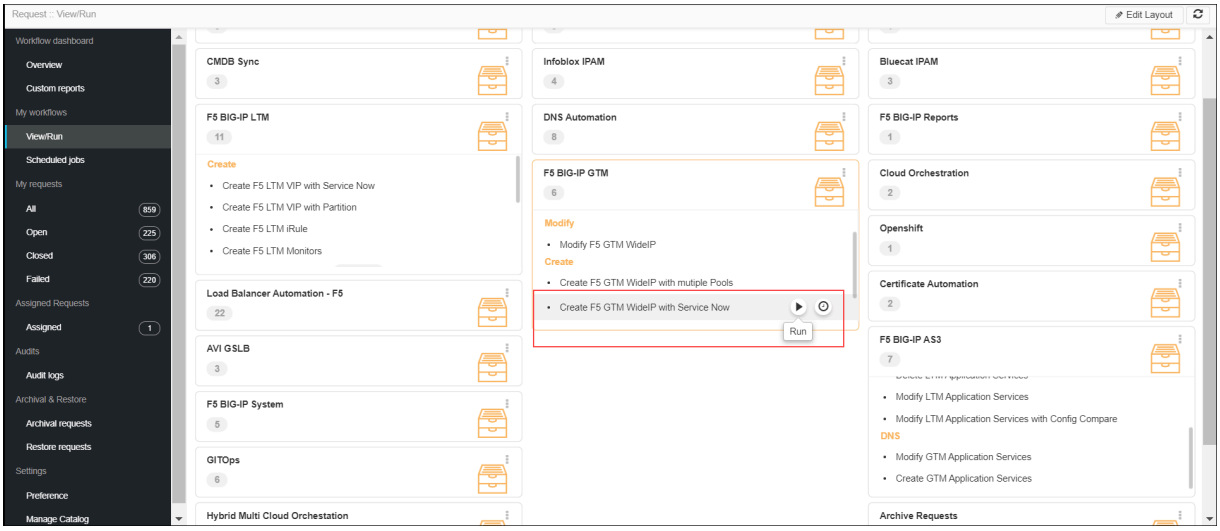
Note: The stages of the request are shown in the left side of the screen. To view a particular stage of the request, click the respective stage.

Create F5 GTM WideIP with Service Now

This workflow creates a WideIP with multiple Pools and integrates with ITSM – Service Now, where you can set Time Zone, Start time, and End time for the ticket creation.

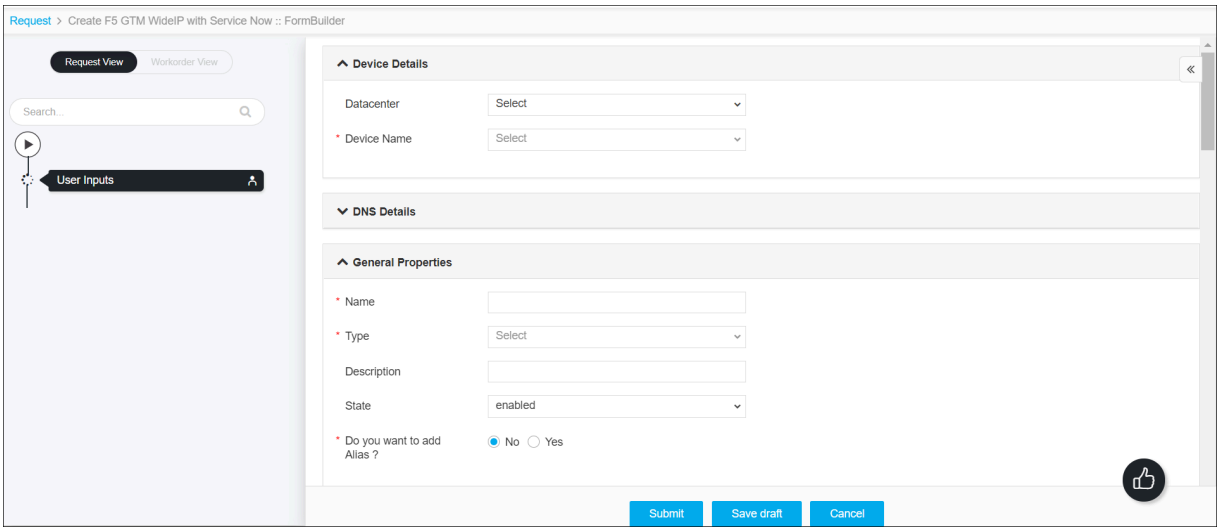
To run this workflow,

1. Go to **Menu** > **Request** > **View/Run**.
   The Workflow Catalog page appears.
2. In the Workflow Catalog page, hover over the **Create F5 GTM WideIP with Service Now** workflow.
   The Run and Schedule buttons are shown.

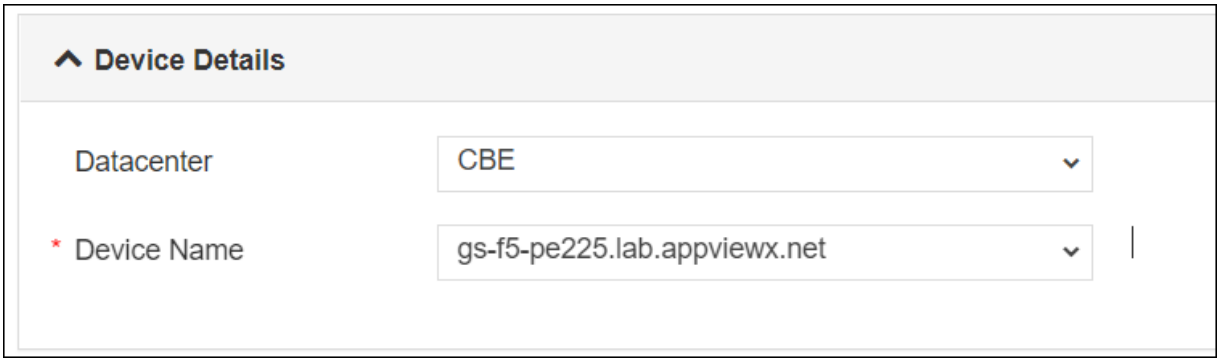


3. Click the Run button.
   The Form Input page opens:

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4. Enter or select the field information in the **Device Details** section of Form Input.



5. The following table provides the field description for the **Device Details** section of Form Input:

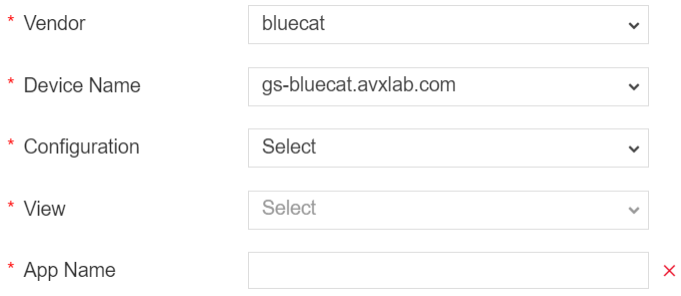
Field	Description
Datacenter	Displays the list of datacenters of the devices, which are created in the Device Inventory. Select the datacenter of a device from the drop-down option for which this request is to be created. For the devices, which are created without a datacenter in the Device Inventory, select the datacenter as **None**.
*Device Name	Displays the list of devices associated with the selected datacenter. If the datacenter is selected as **None**, the devices that are created without datacenter details are listed. Select the desired device from the drop-down option.

6. Enter or select the field information in the **DNS Details** section of Form Input.

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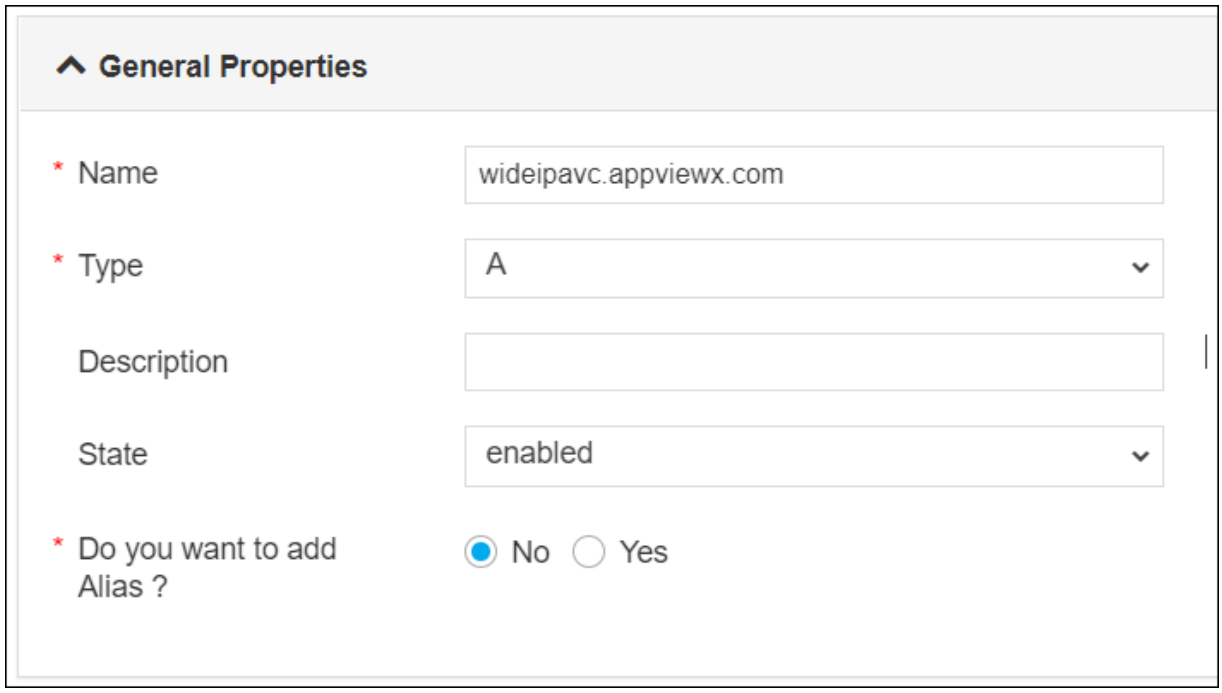
7. The following table provides the field description for the **DNS Details** section of Form Input:

Field	Description
*Do you want to integrate with DNS	By default, the **No** option is selected. If you want to integrate with DNS for CNAME record creation, select **Ye** When you select **Yes**, the following fields are displayed:  Select the **Vendor** from the drop-down list. The default vendors are: **Infoblox** and **bluecat**. When you select DNS vendor as **Infoblox**, you need to provide the following details: • Select the **Device Name** from the drop-down list. • Enter the **App Name** for the WideIP name. When you select DNS vendor as **bluecat**, you need to provide the following details: 

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Field	Description
	• Select the **Device Name** from the drop-down list. • Select the **Configuration** from the drop-down list. • Select the **View** for the selected configuration. The options are displayed based on the selected configurat • Enter the **App Name** for the WideIP name.

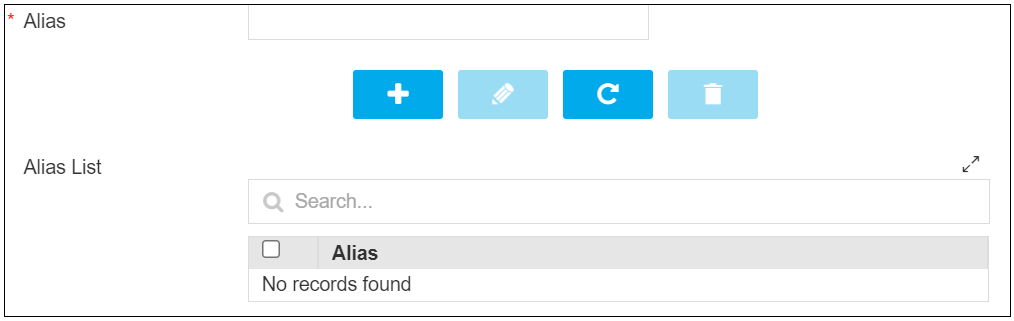
8. Enter or select the field information in the **General Properties** section of Form Input.



9. The following table provides the field description for the **General Properties** section of Form Input:

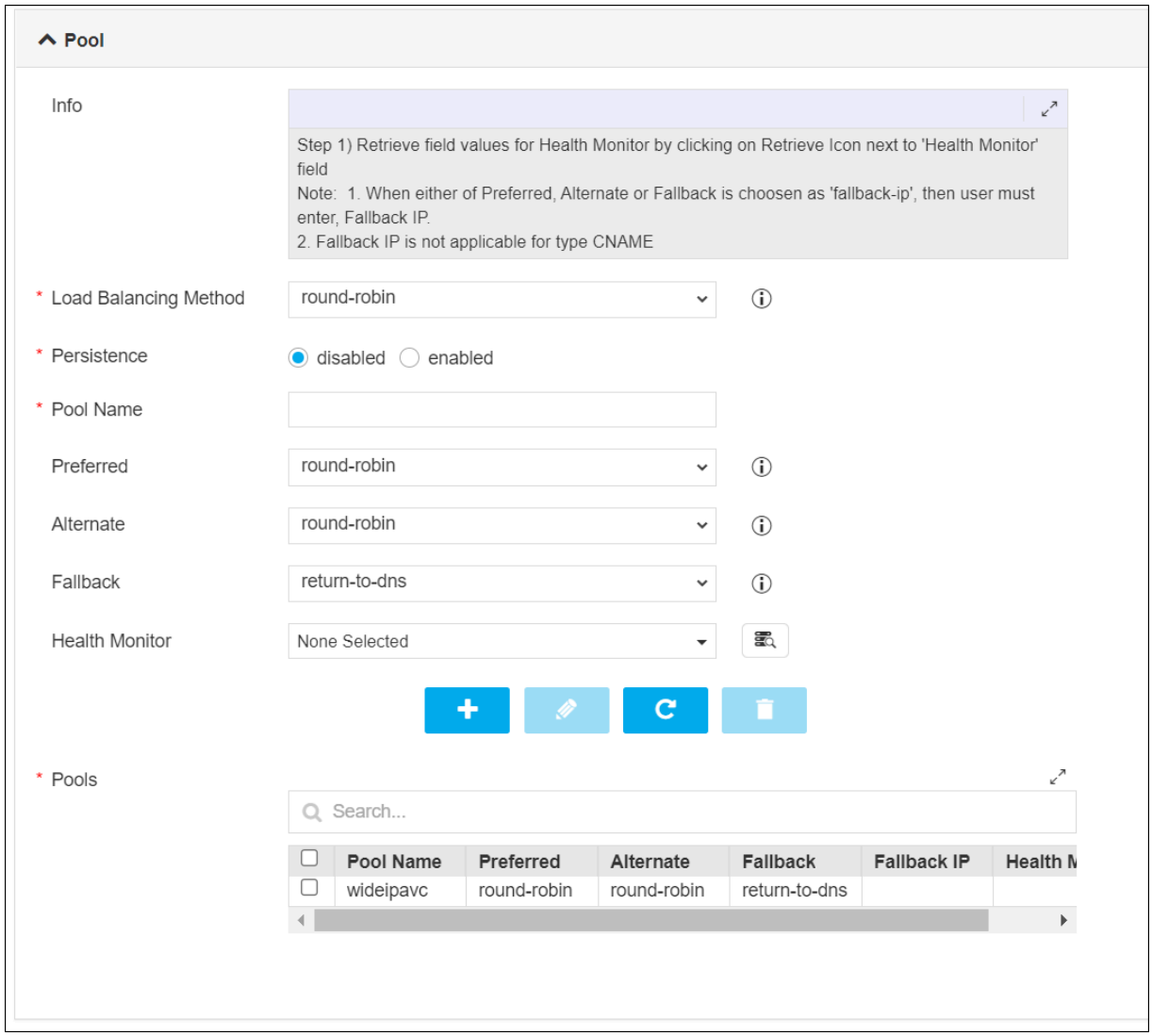
Field	Description
*Wide IP Name	Enter the WideIP Name in the FQDN format.
*Type	Select the pool/WideIP type. The types are: • A - the pool/Wide IP responds to A queries. The A pool/Wide IP is a mapping of an FQDN to a set of IPv4 virtual servers that host the domain's content, such as a Web site or an e-commerce site. You can also specify pool members' virtual server and ratio settings. • CNAME - the pool/Wide IP responds to CNAME queries. A CNAME pool/Wide IP is a mapping of a FQDN to its canonical name. This is the configuration of a static name

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Field	Description
	or a Wide IP name. Static names support older configurations. Wide IP names allow service checking, enhanced load balancing, and CNAME chasing in the reply. You can also specify pool members' ratio.
Description	Enter the descriptive text to identify the WideIP.
State	It allows the system to use this wide IP and its resources for load balancing. The options are: • enabled (default) • disabled
*Do you want to add Alias ?	Add Alias for the WideIP name. The options are: • **No** (default) • **Yes** – When you select **Yes** the following fields are displayed to add alias details:  Enter the alias name for WideIP in the Alias field. You can add any number of aliases for WideIP. After entering the alias in the Alias field, click  to add an alias. The added aliases are displayed under the Alias List. You can manage the added alias(es) to the list.

10. Enter or select the field information in the **Pool** section of Form Input.

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11. The following table provides the field description for the **Pool** section of Form Input:

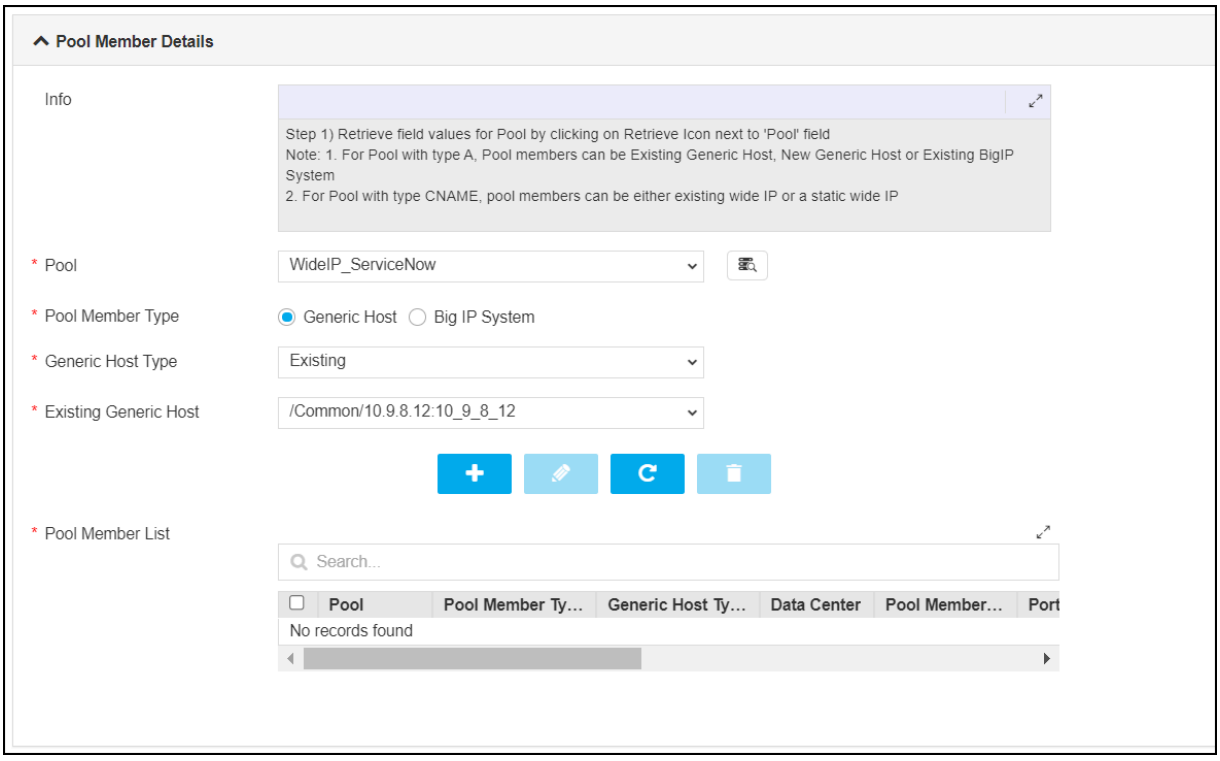
Field	Description
Info	Information that are to be noted while entering the details in this section.
*Load Balancing Method	The load balancing method is used to select a pool in this WideIP. The methods are: • **round-robin** - the system selects the pools sequentially. • **global-availability** -. the system selects a pool by following the order of the Pool List. The system repeatedly selects the first pool in the list for as long as its status

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Field	Description
	is available. If the pool becomes unavailable for any reason, the system then repeatedly selects the next pool in the list, and so on. • **ratio** - the system selects a pool based on the ratio that you assign to the pool.
*Persistence	By default, this option is disabled. When enabled, a local DNS makes repetitive requests on behalf of a client, the system reconnects the client to the same resource as previous requests.
*Pool Name	Name of the pool.
Preferred	Select the preferred load balancing method. The system tries this method first. **Note:** When you choose the fallback-ip option, the Fallback IP field will be displayed and you need to input the Fallback IP.
Alternate	Select the alternate load balancing method. The system tries this method if the Preferred method is unsuccessful in picking the WideIP. **Note:** When you choose the fallback-ip option, the Fallback IP field will be displayed and you need to input the Fallback IP.
Fallback	Select the alternate load balancing method. The system tries this method if the Preferred and Alternate methods are unsuccessful in picking the WideIP.
Fallback IP	When the fallback-ip option is selected as Preferred or Alternate load balancing method, this field will be displayed to add the Fallback IP. The Fallback IP is not applicable for the pool type CNAME.
Health Monitor	The health monitors that the system uses to determine whether it can use this pool for load balancing. To get the fields to be monitored, click the Retrieve  button, and then select the objects from the drop-down option.
*Pools	Add multiple pools by clicking the Add  button. After adding pool(s) to the list. You can manage them.

12. Enter or select the field information in the **Pool Member Details** section of Form Input.

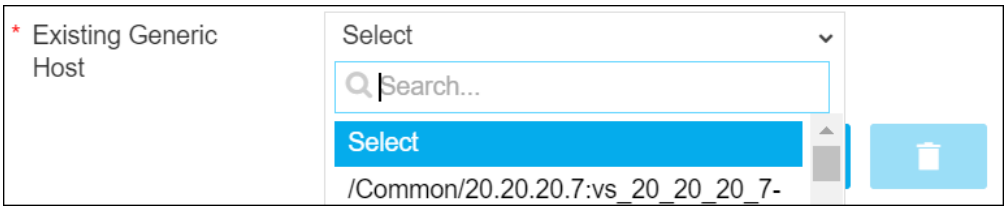
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13. The following table provides the field description for the **Pool Member Details** section of Form Input:

Field	Description
Info	Information that are to be noted while entering the details in this section.
*Pool	Click the Retrieve () button to select the pool name.
*Pool Member Type	Select the pool member types. The pool member types are: • Generic Host – When you select this pool member type, you get the option to select the Generic Host Type

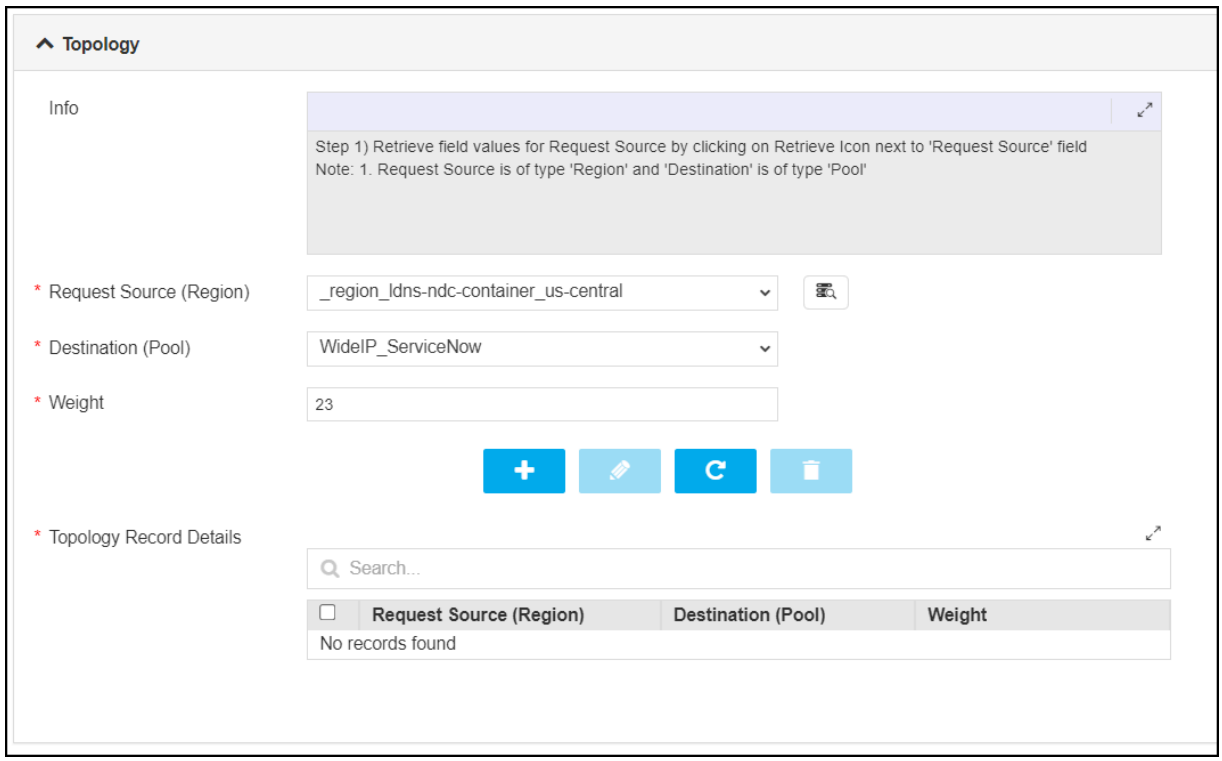
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Field	Description
	 • Big IP System – When you select this pool member type, you get the option to select the configured virtual  **Note:** It takes a while to load the servers.
*Generic Host Type	When the pool member type is selected as Generic Host, you need to select the type of generic host. The ge Existing – This option allows to select the existing host. When you select this option, the existing generic hos 

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Field	Description
	Create New – This option allows you to create a generic host. When you select this, the following fields are c • ***Data Center** – select the datacenter of the pool member. • ***Pool Member IP** – enter the IP of the pool member. • ***Port** – enter the port of the pool member.
*Virtual Server	When the pool member type is selected as Big IP System. Select a virtual server from the dropdown list.
*Pool Member List	Enter the IP address of the pool member. And then click the Add button. Any number of pool numbers

14. Enter or select the field information in the **Topology** section of Form Input.



15. The following table provides the field description for the **Topology** section of Form Input:

Field	Description
Info	Information that is to be noted while entering the details in this section.

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Field	Description
*Request Source (Region)	The origination section of the topology record for the pool. Click the Retrieve  button to get the list of associated regions.
*Destination (Pool)	The target section of the topology record for the pool.
*Weight	The weight of the topology record. The system finds the weight of the first topology record that matches the server object (pool or pool member) and the local DNS. The system then assigns that weight as the topology score for that server object. The system load balances to the server object with the highest topology score. If the system finds no topology record that matches both the server object and the local DNS, then the system assigns that server object a zero score.
*Topology Record…	After providing the topology details for the pool, click Add  icon. The List of topologies is added for the pool. You can manage topology records after adding them.

16. Enter or select the field information in the **Change Management** section of Form Input.



17. The following table provides the field description for the **Change Management** section of Form Input:

Field	Description
*Do you want to integrate ServiceNow?	By default, the **No** option is selected. If you want to integrate with ServiceNow, select **Yes** and provide t  • **Timezone** – select the timezone from the drop-down list. • **Start Time** – select the start date and time from the calendar. • **End Time** – select the end date and time from the calendar.

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18. Click the **Submit** button.
    The Confirmation popup opens.

> **Note:**
> • If you want to save this form to edit it later, click the Save Draft button, and then click Ok in the Confirmation popup window. The form will be saved as Open request under Request > My Request.
> • If you want to cancel this form, click the Cancel button.

19. Click **Ok** to submit the form.
    The validation starts automatically and reaches the **Review** stage.

> **Note:**
> • If there is any failure at this stage, start a new request by providing the correct data.
> • Alternatively, select the failed request and clone it. Update the correct input data in the form input, and submit the workflow again.

20. Review the input data under the **implementation**, **rollback**, and **postvalidation** tabs: <screenshot>
21. (Optional) If you need to update any data at this stage, you can do so by clicking the right side of the mouse on the data and selecting the desired option.<screenshot>
22. After the review, click the Submit button.
    The Confirmation popup opens.

> **Note:** Click Cancel to stop running the workflow creation.

23. Click **Ok** to continue the workflow creation.
    It takes a while to complete the request.
24. The workflow is created and the email is triggered to the configured email IDs. <screenshot>

> **Note:** The stages of the request are shown in the left side of the screen. To view a particular stage of the request, click the respective stage.

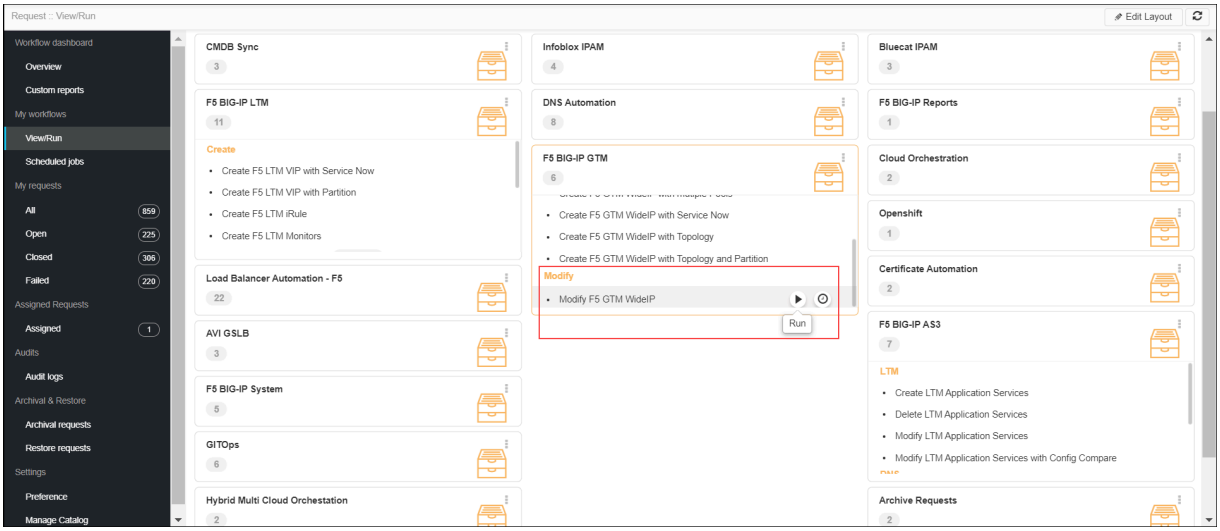
Modify F5 GTM WideIP

This workflow modifies an existing WideIP and/or its Pool details, which is associated with the WideIP, and manages Pool members.

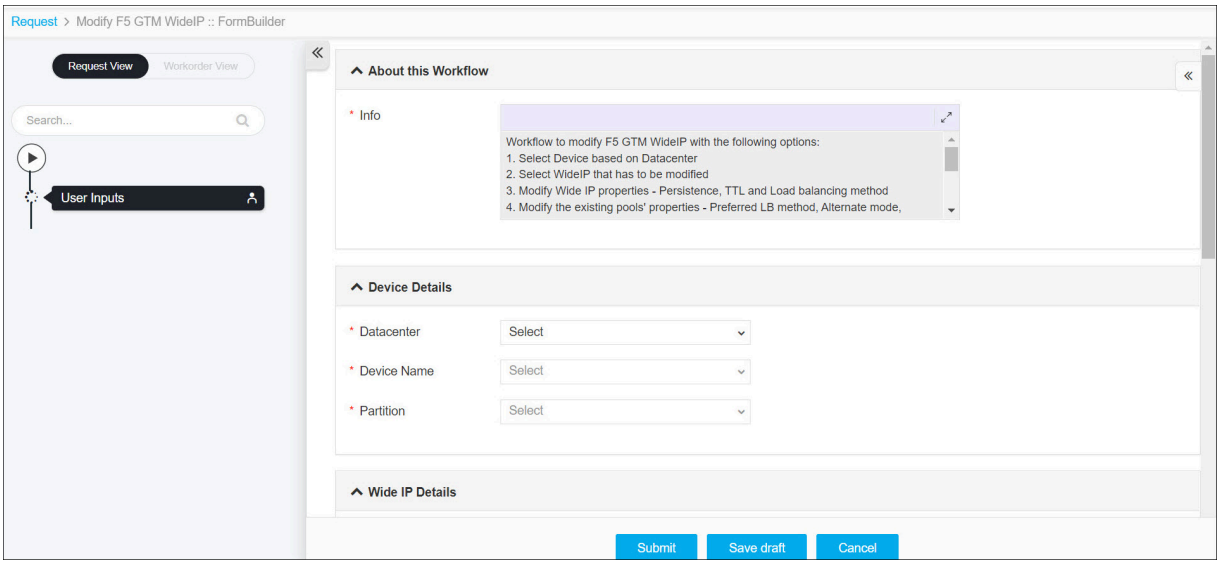
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To run this workflow,

1. Go to **Menu** > **Request** > **View/Run**.
   The Workflow Catalog page appears.
2. In the Workflow Catalog page, hover over the **Modify F5 GTM WideIP** workflow.
   The Run and Schedule buttons are shown.

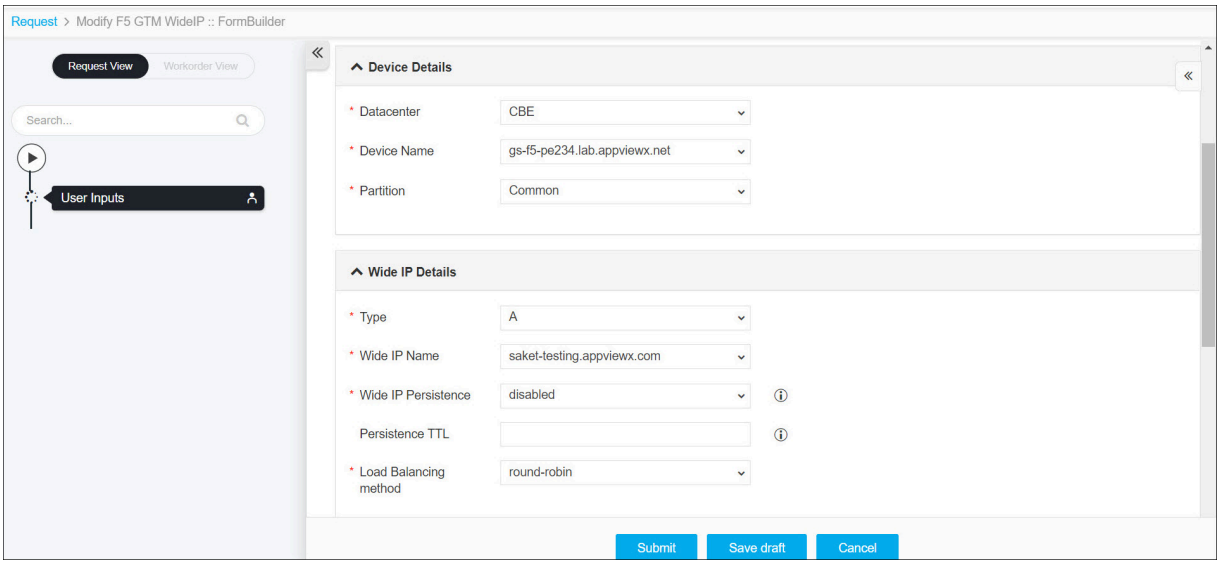


3. Click the Run  button.
   The Form Input page opens:



4. Provide the WideIP, pool, and pool member details of the device that are to be modified.

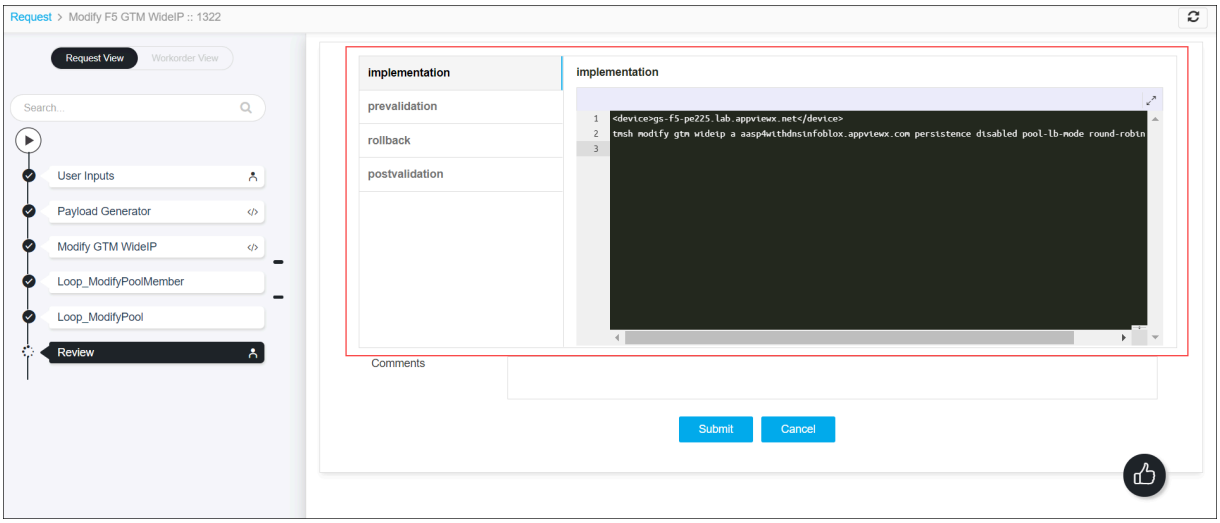
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5. Update the necessary details of WIP, pool, and pool member, and then click the **Submit** button.
   The validation starts automatically and reaches the **Review** stage.

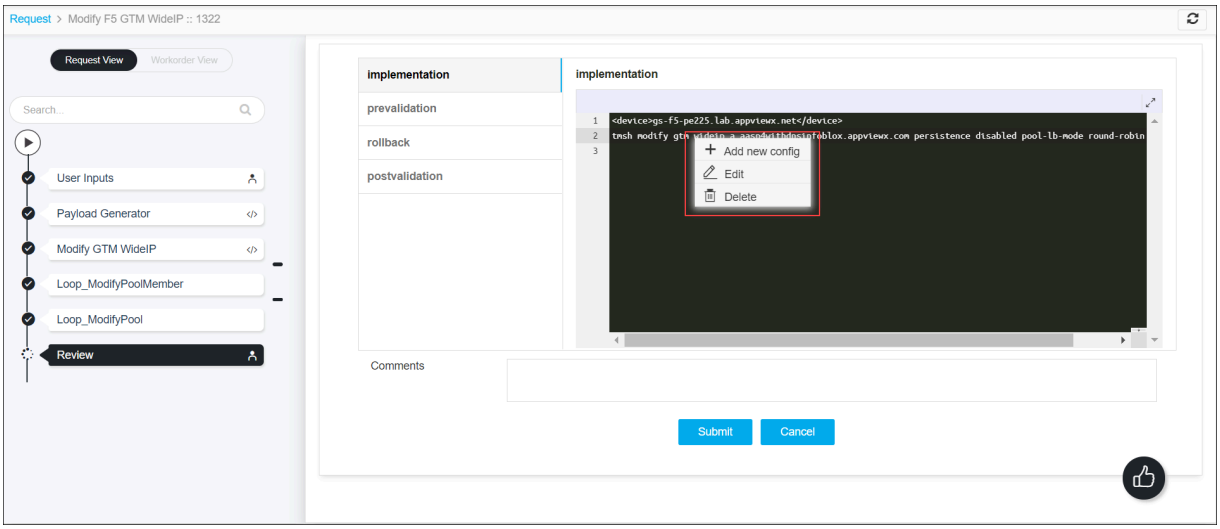
> **Note:**
> - If you want to save this form to edit it later, click the **Save Draft** button, and then click **Ok** in the Confirmation popup window. The form will be saved as Open request under **Request** > **My Request**.
> - If you want to cancel this form, click the **Cancel** button.

6. Review the input data under the **implementation**, **rollback**, and **postvalidation** tabs:



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7. (Optional) If you need to update any data at this stage, you can do so by clicking the right side of the mouse on the data and selecting the desired option.



8. After the review, click the **Submit** button.

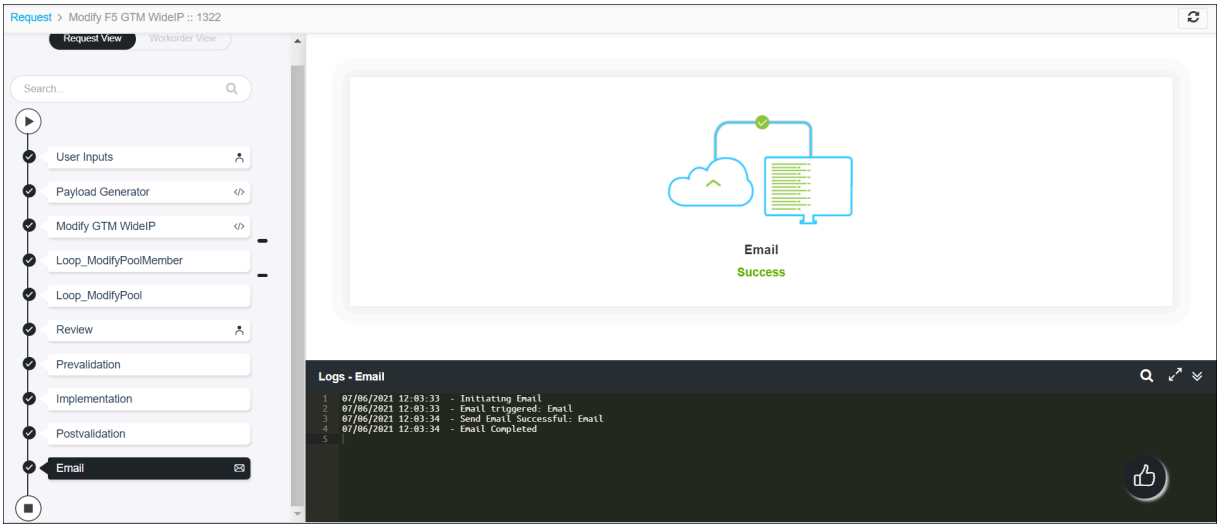
   The Confirmation popup opens.

> **Note:** To stop running the workflow creation, click **Cancel**.

9. Click **Ok** to continue the workflow creation.

   It takes a while to complete the request.

10. The workflow is created and the email is triggered to the configured email IDs.



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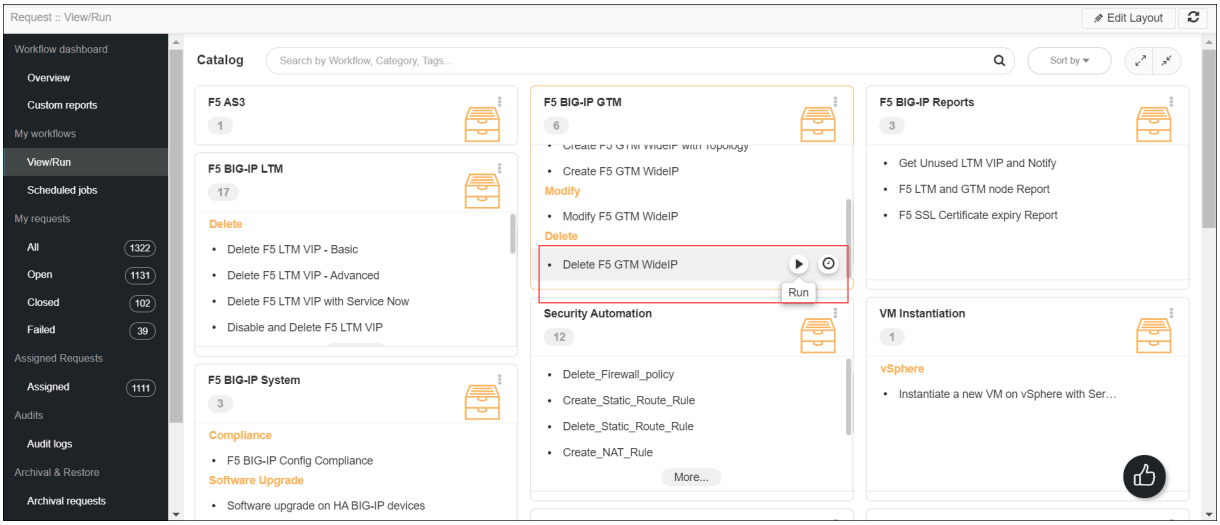
Note: The stages of the request are shown in the left side of the screen. To view a particular stage of the request, click the respective stage.

Delete F5 GTM WideIP

This workflow deletes an existing WideIP. On deleting a WideIP, associated Pool, Pool members, Topology, Monitor, and Servers with the WideIP are deleted if they are not associated with any other WideIP. Also, it deletes the associated CNAME record in the DNS – Infoblox/Bluecat.

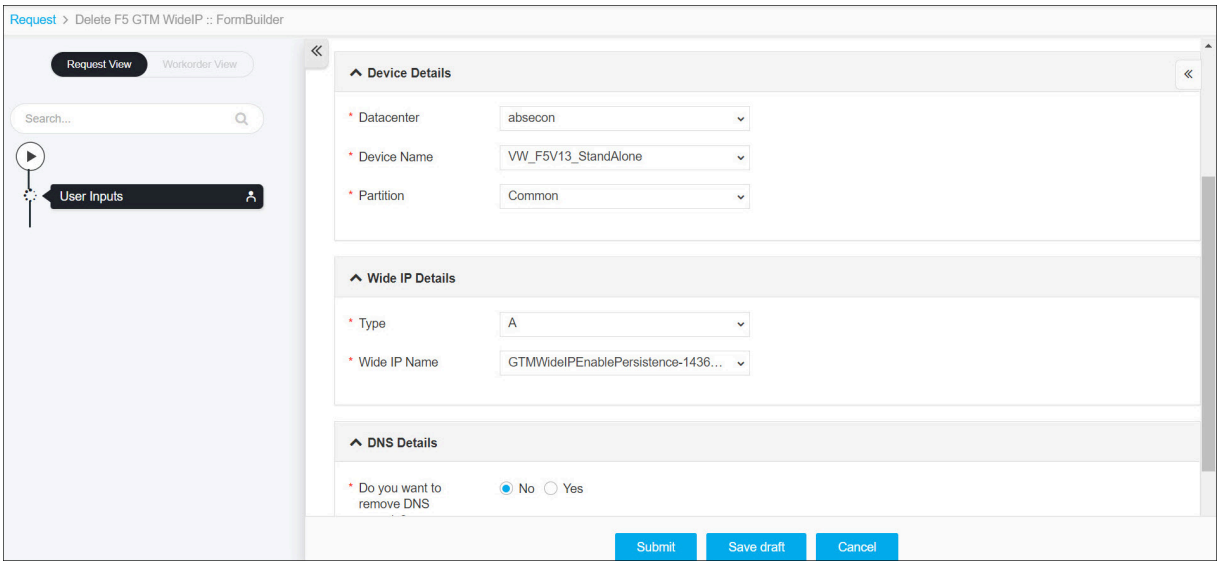
To run this workflow,

1. Go to **Menu** > **Request** > **View/Run**.
   The Workflow Catalog page appears.
2. In the Workflow Catalog page, hover over the **Delete F5 GTM WideIP** workflow.
   The Run and Schedule buttons are shown.



3. Click the Run  button.
   The Form Input page opens:

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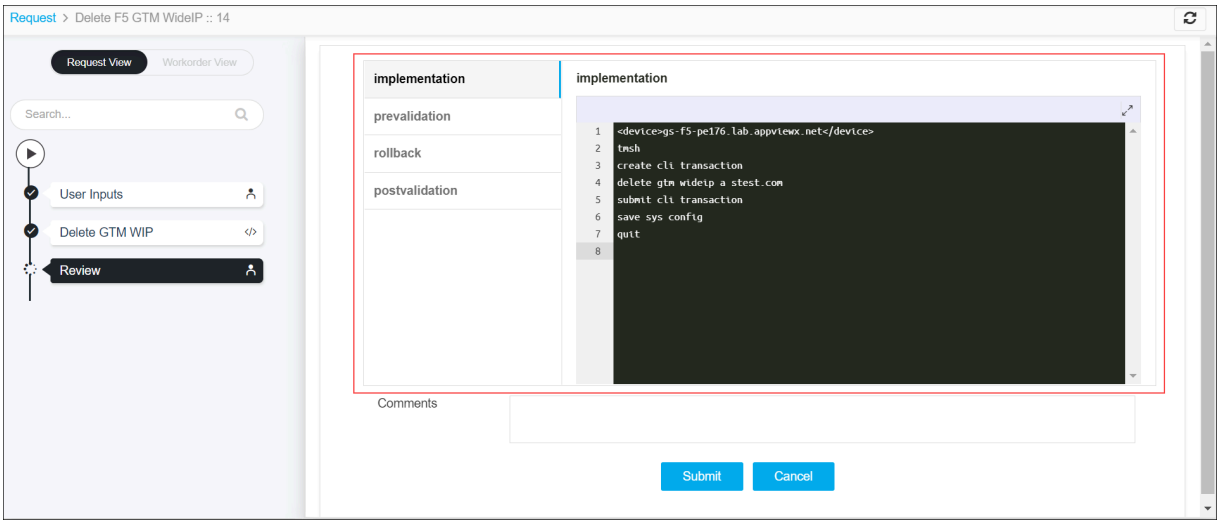


4. Select the necessary details of the device, WIP, and DNS to delete.
5. Click the **Submit** button.

   The validation starts automatically and reaches the **Review** stage.

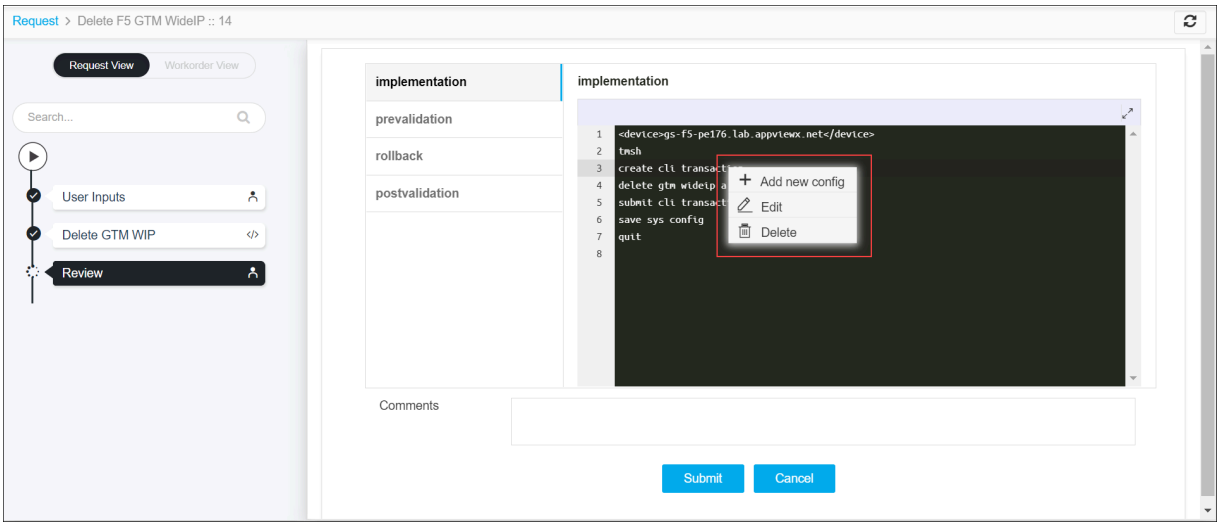
> **Note:**
> - If you want to save this form to edit it later, click the **Save Draft** button, and then click **Ok** in the Confirmation popup window. The form will be saved as Open request under **Request** > **My Request**.
> - If you want to cancel this form, click the **Cancel** button.

6. Review the input data under the **implementation**, **rollback**, and **postvalidation** tabs:



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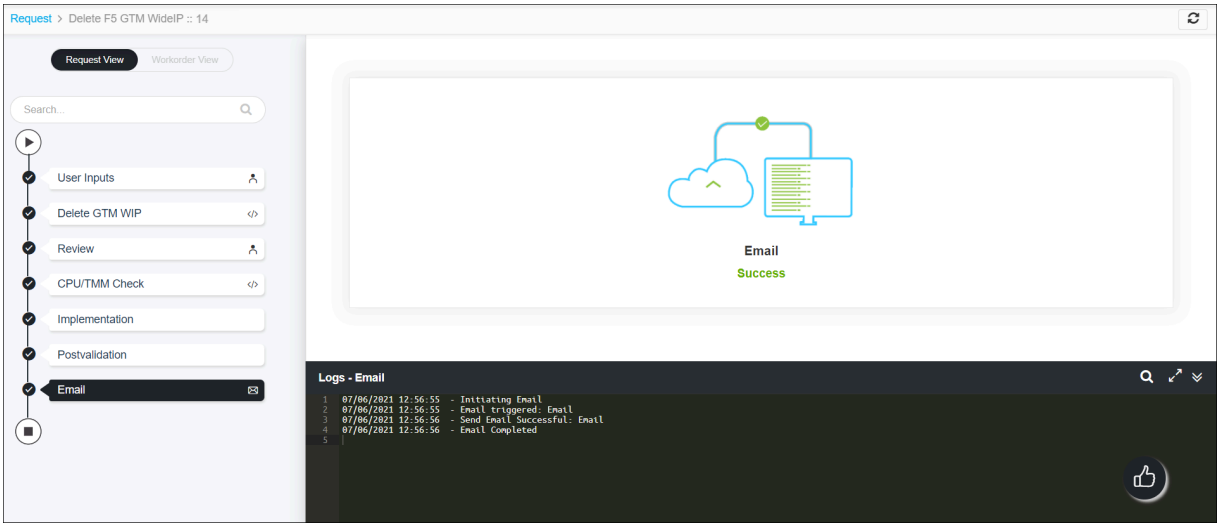
7. (Optional) If you need to update any data at this stage, you can do so by clicking the right side of the mouse on the data and selecting the desired option.



8. After the review, click the **Submit** button.
   The Confirmation popup opens.

> **Note:** To stop running the workflow creation, click **Cancel**.

9. Click **Ok** to continue the workflow creation.
   It takes a while to complete the request.
10. The workflow is created and the email is triggered to the configured email IDs.



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Note: The stages of the request are shown in the left side of the screen. To view a particular stage of the request, click the respective stage.

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Chapter 5: F5 BIG-IP System

- Automate F5 BIG-IP Upgrades
- Compliance - CVE Reporting and Golden Config Compliance

Automate F5 BIG-IP Upgrades

The workflows grouped under this sub-category are:

- F5 BIG-IP Software Upgrade on Standalone Devices
- F5 BIG-IP Software Upgrade on HA Devices

F5 BIG-IP Software Upgrade on Standalone Devices

- Overview
- Pre-requisite
- Running Software Upgrade on Standalone Devices

Overview

This workflow upgrades the BIG-IP version from the existing version to a higher version as recommended by F5. For more information, refer to https://support.f5.com/csp/article/K13845.

Pre-requisite

The prerequisites are,

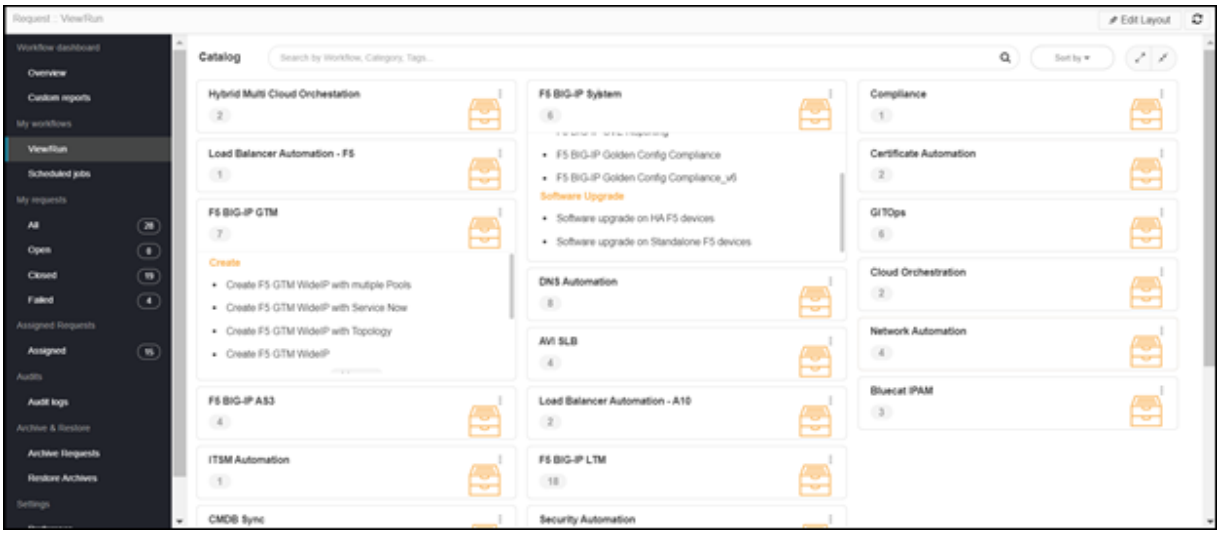
- The ISO files for the software upgrade must be available in path /shared/images of the F5-BIG IP in which upgrade to be performed.
- The User using which F5 BIG-IP is Managed in AppViewX should have Advance shell Access.
- For License reactivation, the F5 device should have Internet access.

Running Software Upgrade on Standalone Devices

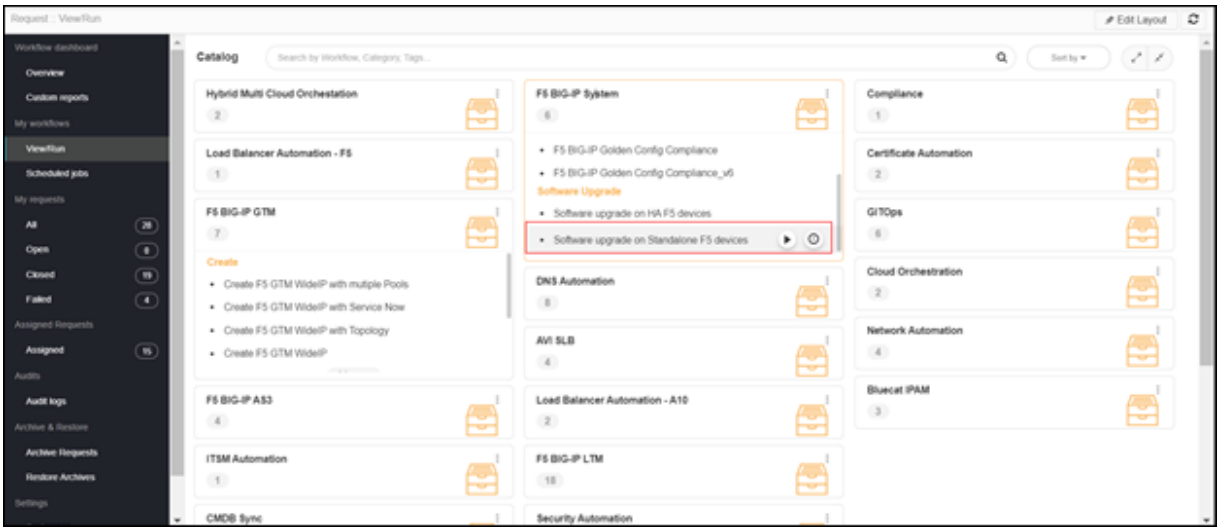
To run this workflow,

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1. Go to **Menu** > **Request** > **View/Run**.
   The ADC OOB workflows are listed.



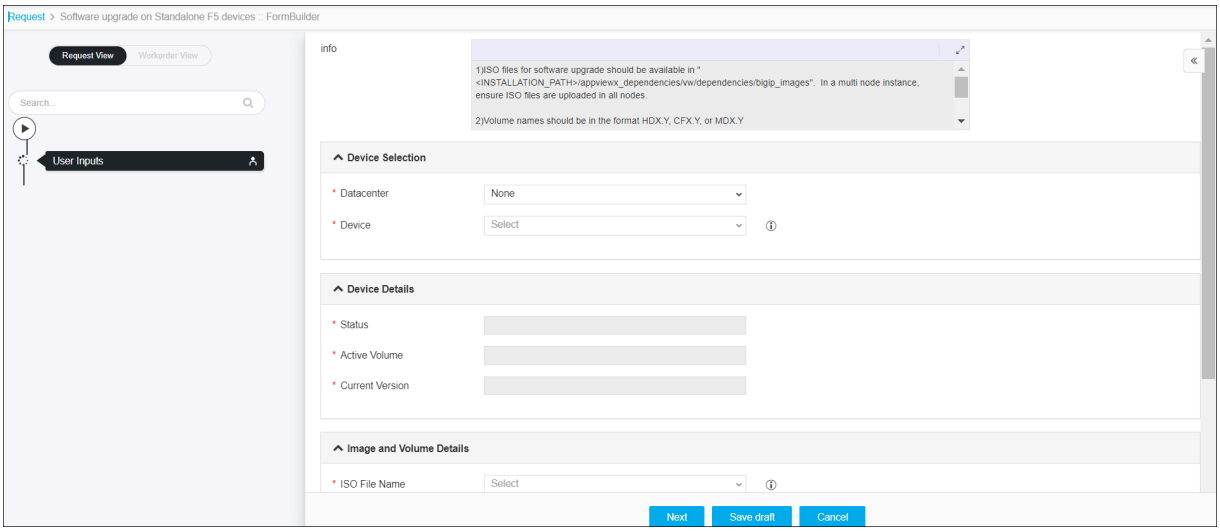
2. In the Workflow Catalog page, hover over the **Software upgrade on Standalone F5 devices** workflow.



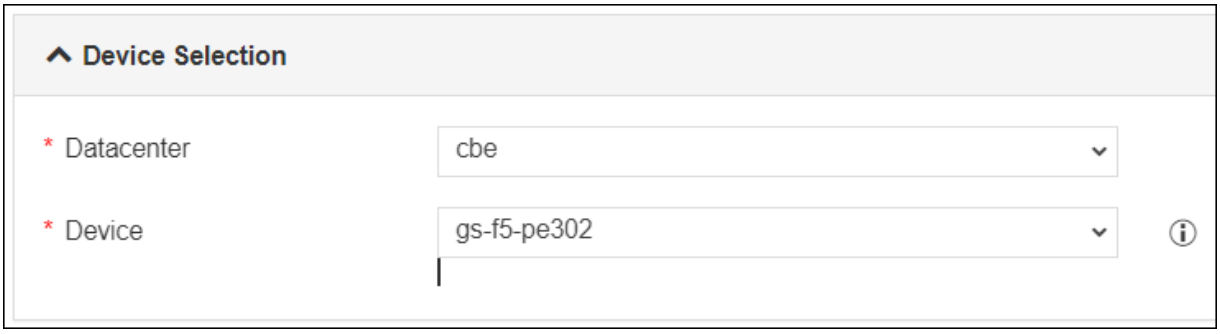
   The Run and Schedule buttons are shown.

3. Click the Run button.
   The Form Input page opens:

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4. Enter or select the field information in the **Device Selection** section of Form Input.

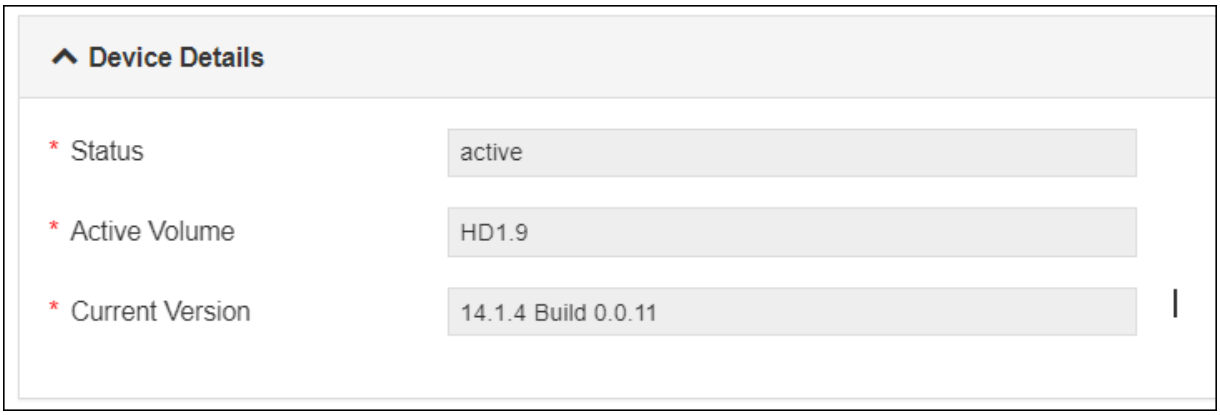


5. The following table provides the field description for the **Device Selection** section of Form Input:

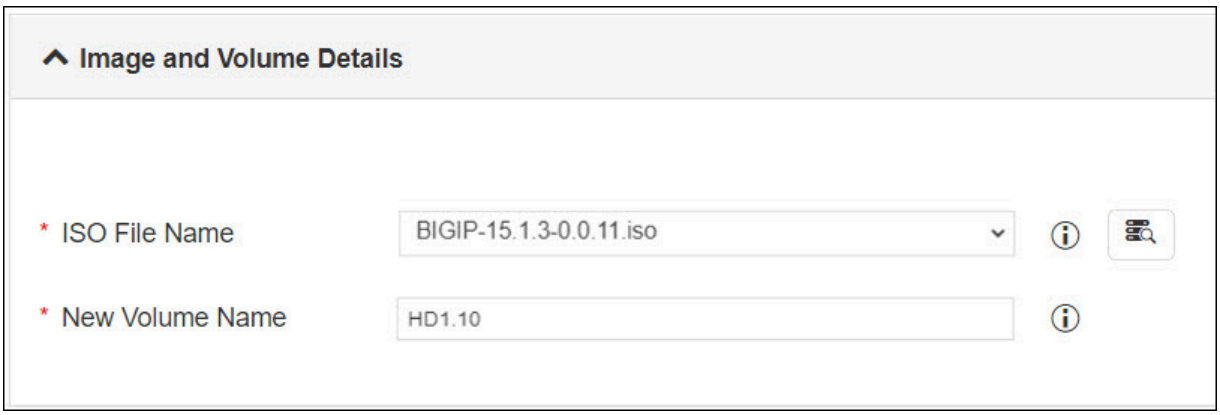
Field	Description
*Datacenter	Displays the list of datacenters of the devices, which are created in the Device Inventory. Select the datacenter of a device from the drop-down option for which this request is to be created. For the devices, which are created without a datacenter in the Device Inventory, select the datacenter as **None**.
*Device Name	Displays the list of devices associated with the selected datacenter. If the datacenter is selected as **None**, the devices that are created without datacenter details are listed. Select the desired device from the drop-down option.

6. The **Status**, **Active Volume**, and **Current Version** of the device in the **Device Details** are loaded automatically.

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7. Enter or select the field information in the **Image and Volume Details** section of Form Input.

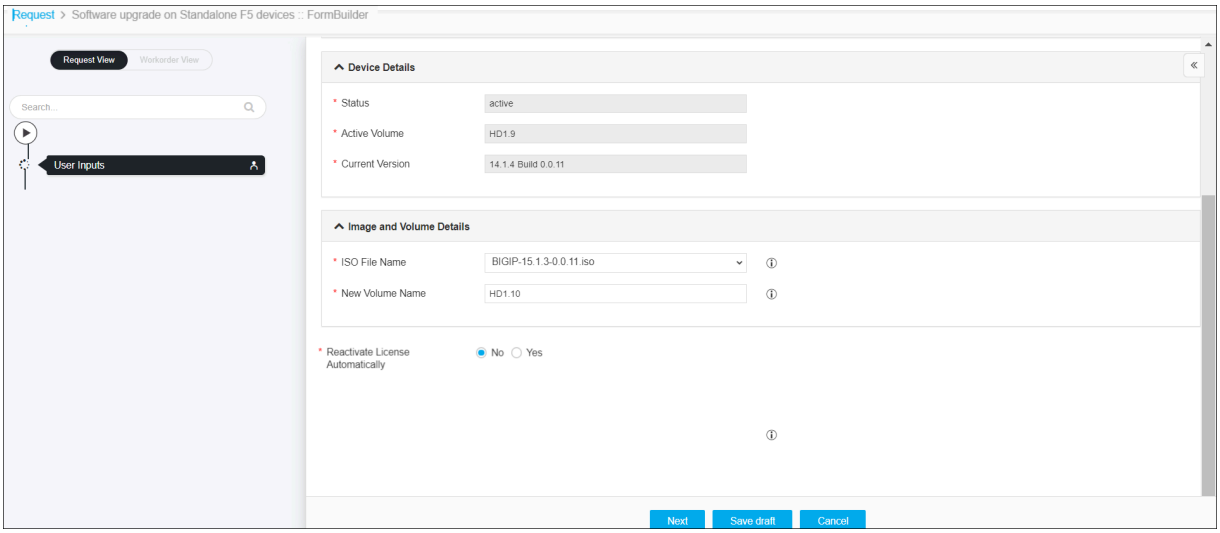


8. The following table provides the field description for the **Image and Volume Details** section of Form Input:

Field	Description
*ISO File Name	Click the retrieve button and then select a desired ISO file name from the dropdown list.
*New Volume Name	Enter the new volume name. The format of the volume name must be in the form of HDX.Y, CFX.Y, or MDX.Y.

9. Select **Renew License**. The possible values for Renew License are:
   - **No** – This option does not allow you to renew the license. By default, this option is selected.
   - **Yes** – Select this option to generate
10. Click the **Next** button.

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The Confirmation popup opens.

Note:

- · If you want to save this form to edit it later, click the **Save Draft** button, and then click **Ok** in the Confirmation popup window. The form will be saved as an Open request under Request > My Request.
- · If you want to cancel this form, click the **Cancel** button.

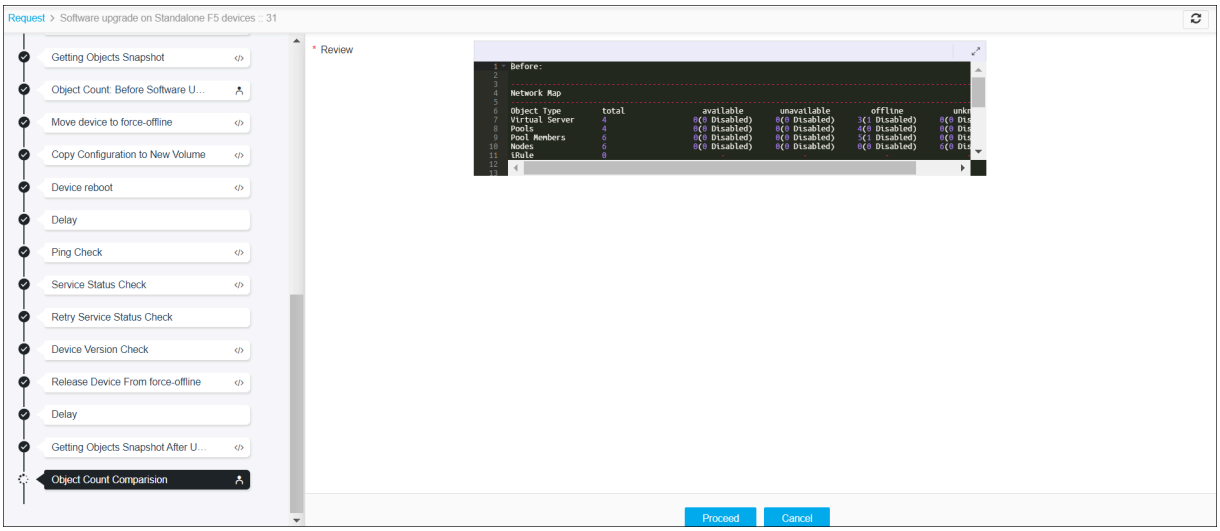
11. Click **Ok** to submit the form.
    The software upgrade starts. It takes a while to complete the software upgrade.

Note:

- A request is created for this workflow. To view the request, navigate to Menu > Request > All.
- If there is any failure in running this workflow, start a new workflow by providing the correct data.
- Alternatively, clone the request, update the correct input data in the form input, and submit the workflow.

12. After the manual check, click the **Proceed** button.
    The Confirmation popup opens.
13. Click **Ok** to submit the form.
14. After the **Object Count Comparison**, click the **Proceed** button.

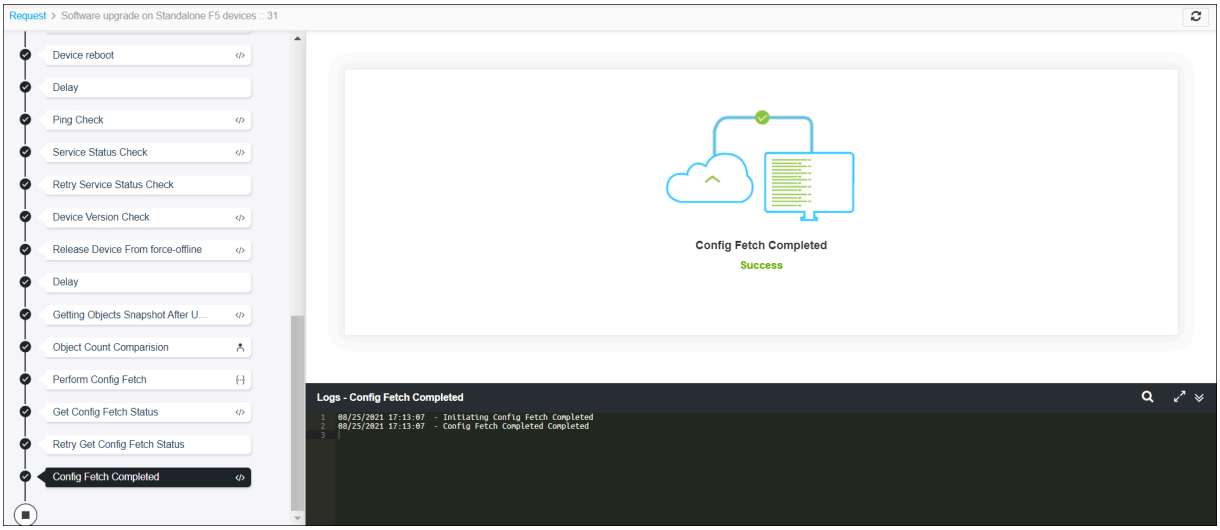
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The Confirmation popup opens.

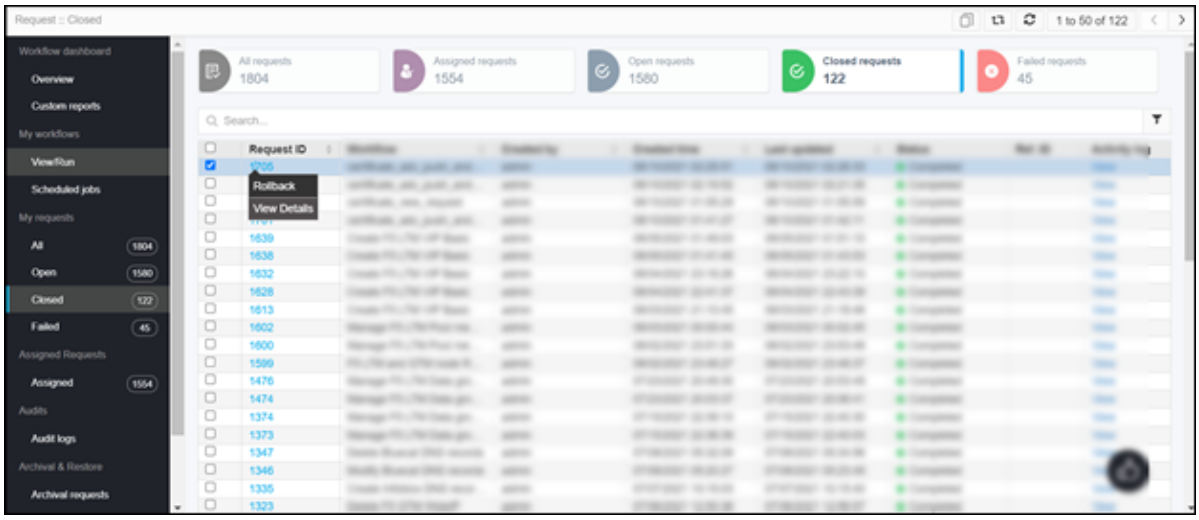
15. Click **Ok** to submit the form.

    The implementation process for software upgrade is completed:



16. In case the request has to be reverted, perform the following steps:
    - Go to the **Menu** > **Request** > **All**.
    - Right-click the row on your desired Request ID.
    - Select the Rollback option.

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- Select **Yes** on the Rollback confirmation dialog.
- A new request is triggered for performing rollback.

F5 BIG-IP Software Upgrade on HA Devices

- Overview
- Prerequisites
- Running Software Upgrade on F5 HA Devices

Overview

This workflow upgrades the BIG-IP version from the existing version to a higher version as recommended by HA F5. For more information, refer to https://support.f5.com/csp/article/K13845.

Prerequisites

The prerequisites are,

- The ISO files for the software upgrade must be available in both active and standby devices and the file should be in the path /shared/images of the F5-BIG IP in which upgrade to be performed.
- The User using which F5 BIG-IP is Managed in AppViewX should have Advance shell Access.
- For License reactivation, the F5 device should have Internet access.

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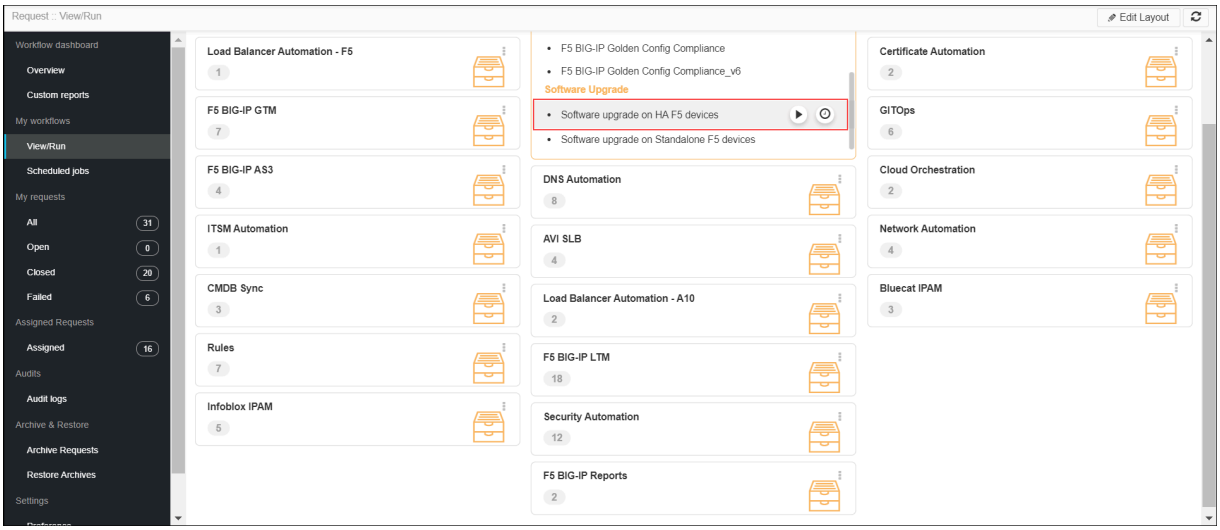
Running Software Upgrade on F5 HA Devices

To run this workflow,

1. Go to **Menu** > **Request** > **View/Run**.
   The ADC OOB workflows are listed.



2. In the Workflow Catalog page, hover over the **Software upgrade on Standalone F5** devices workflow.

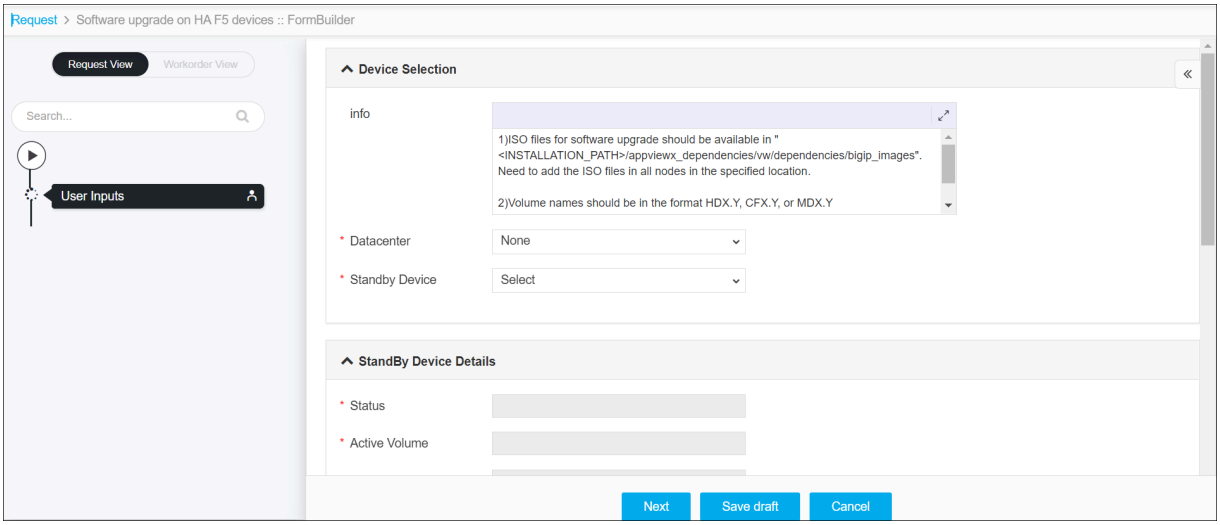


   The Run and Schedule buttons are shown.

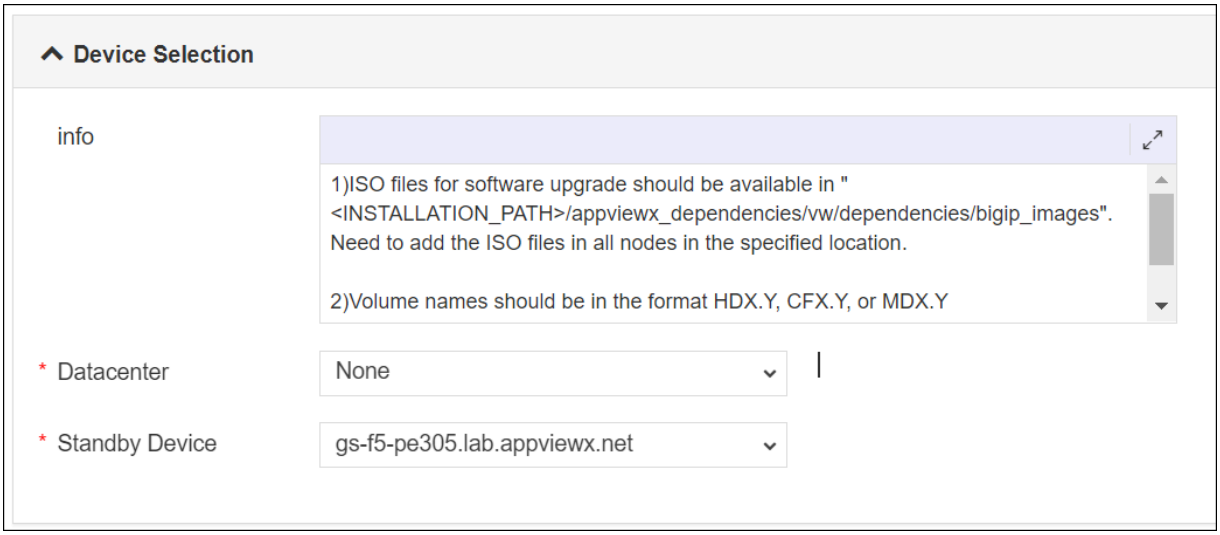
3. Click the Run  button.

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The Form Input page opens:



4. Enter or select the field information in the **Device Selection** section of Form Input.



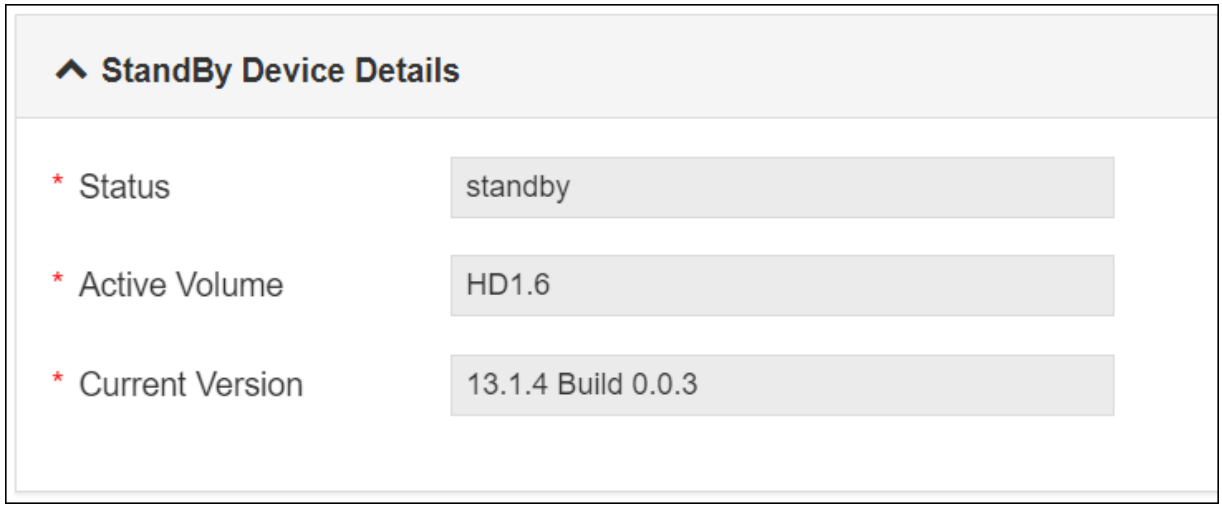
5. The following table provides the field description for the **Device Selection** section of Form Input:

Field	Description
*Datacenter	Displays the list of datacenters of the devices, which are created in the Device Inventory. Select the datacenter of a device from the drop-down option for which this request is to be created. For the devices, which are created without a datacenter in the Device Inventory, select the datacenter as **None**.

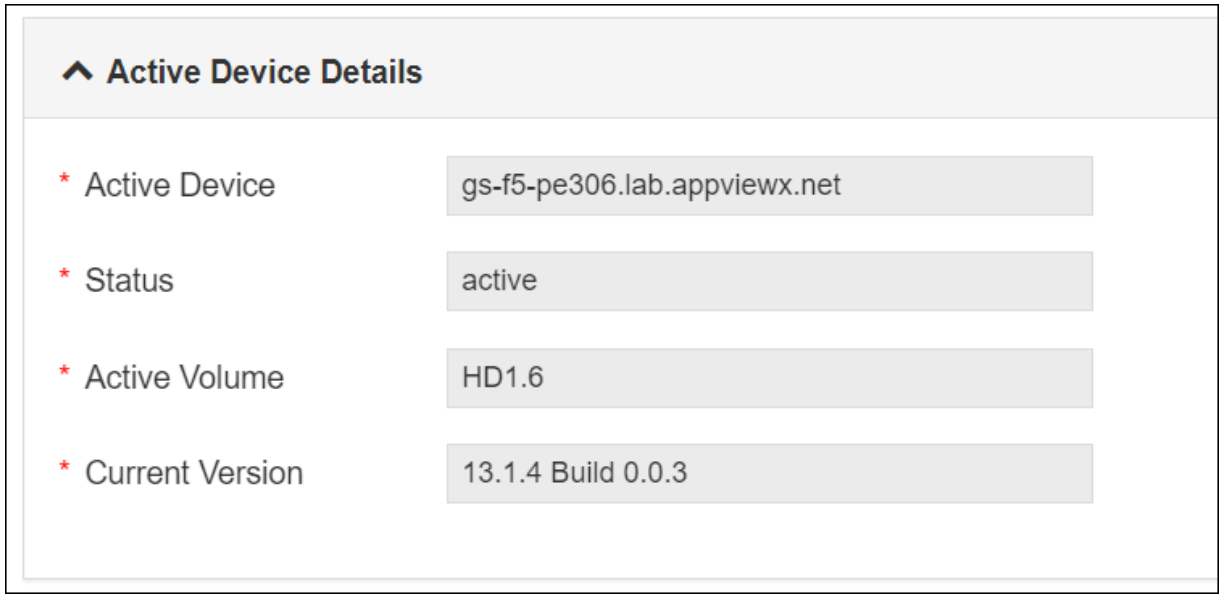
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Field	Description
*Device Name	Displays the list of devices associated with the selected datacenter. If the datacenter is selected as **None**, the devices that are created without datacenter details are listed. Select the desired device from the drop-down option.

6. The Status, Active Volume, and Current Version of the standby device in the **StandBy Device Details** are loaded automatically.

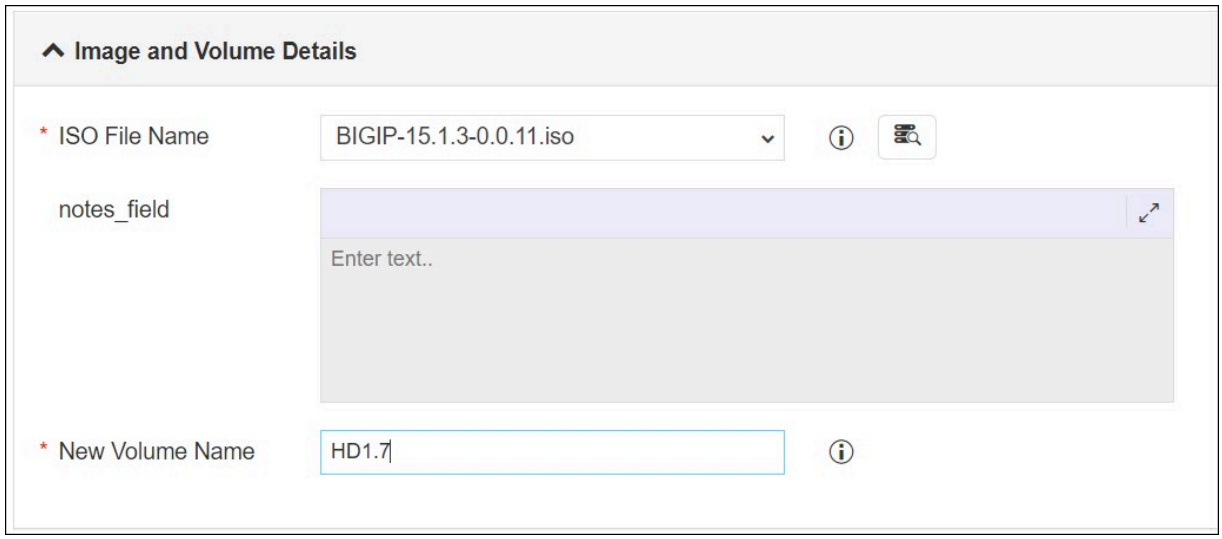


7. The **Active Device**, **Status**, **Active Volume**, and **Current Version** of the active device in the **Active Device Details** are loaded automatically.



8. Enter or select the field information in the **Image and Volume Details** section of Form Input.

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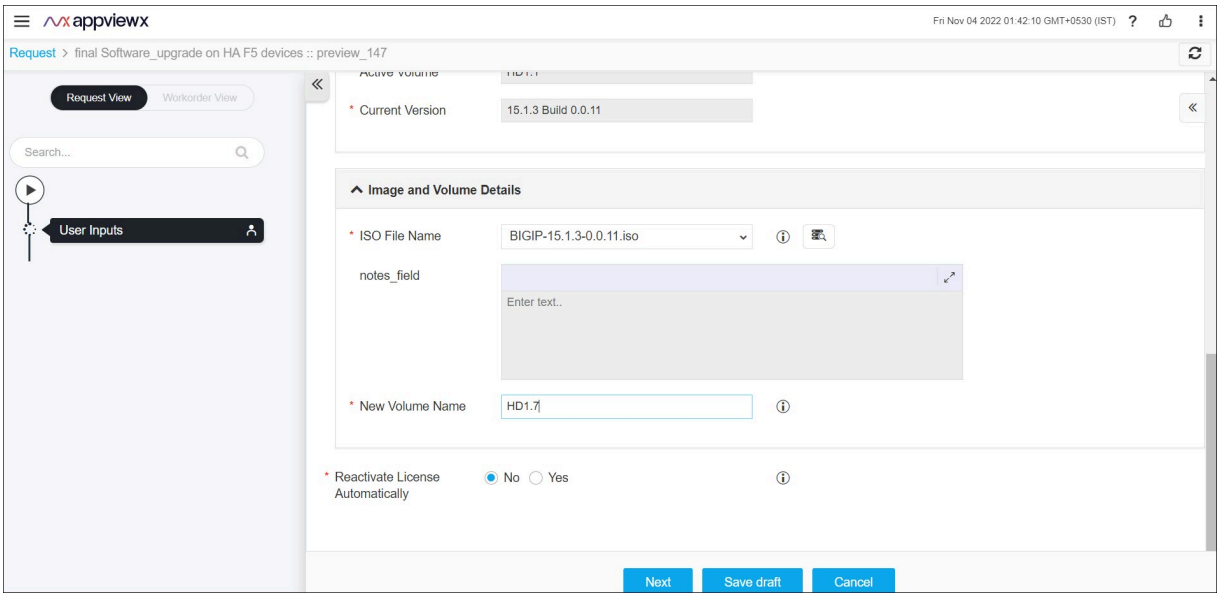


9. The following table provides the field description for the **Image and Volume Details** section of Form Input:

Field	Description
*ISO File Name	Click the retrieve button and then select a desired ISO file name from the dropdown list.
notes_field	Error messages will be shown in this field in case of non-availability of an ISO file.
*New Volume Name	Enter the new volume name. The format of the volume name must be in the form of HDX.Y, CFX.Y, or MDX.Y.

10. Select **Renew License**. The possible values for Renew License are:
    - **No** – This option does not allow you to renew the license. By default, this option is selected.
    - **Yes** – Select this option to generate
11. Click the **Next** button.

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The Confirmation popup opens.

Note:

- If you want to save this form to edit it later, click the **Save Draft** button, and then click **Ok** in the Confirmation popup window. The form will be saved as an Open request under **Request** > **My Request**.
- If you want to cancel this form, click the **Cancel** button.

12. Click **Ok** to submit the form.

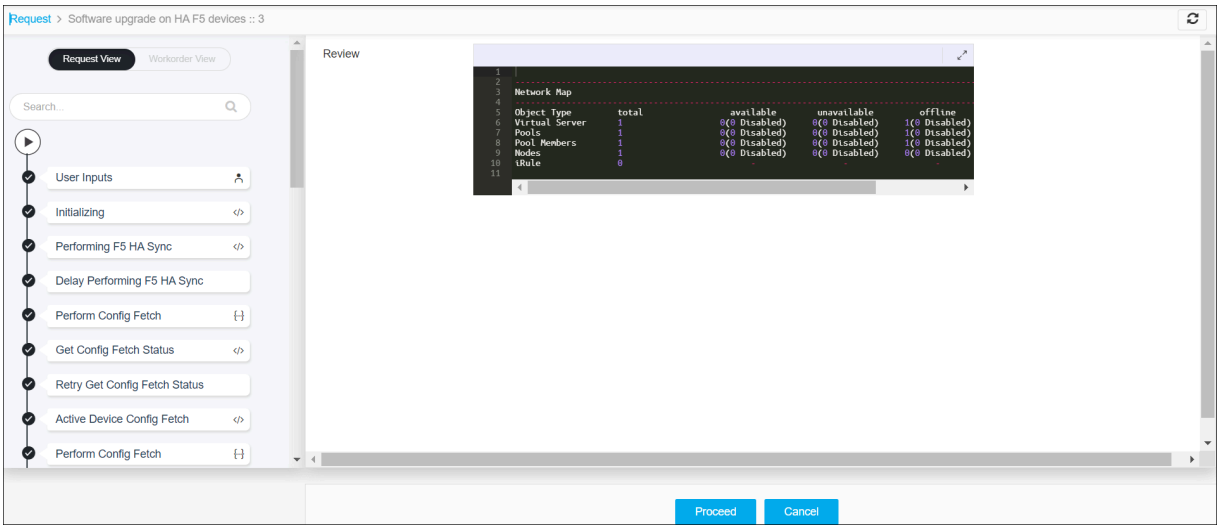
    The software upgrade starts. It takes a while to complete the software upgrade.

Note:

- A request is created for this workflow. To view the request, navigate to Menu > Request > All.
- If there is any failure in running this workflow, start a new workflow by providing the correct data.
- Alternatively, clone the request, update the correct input data in the form input, and submit the workflow.

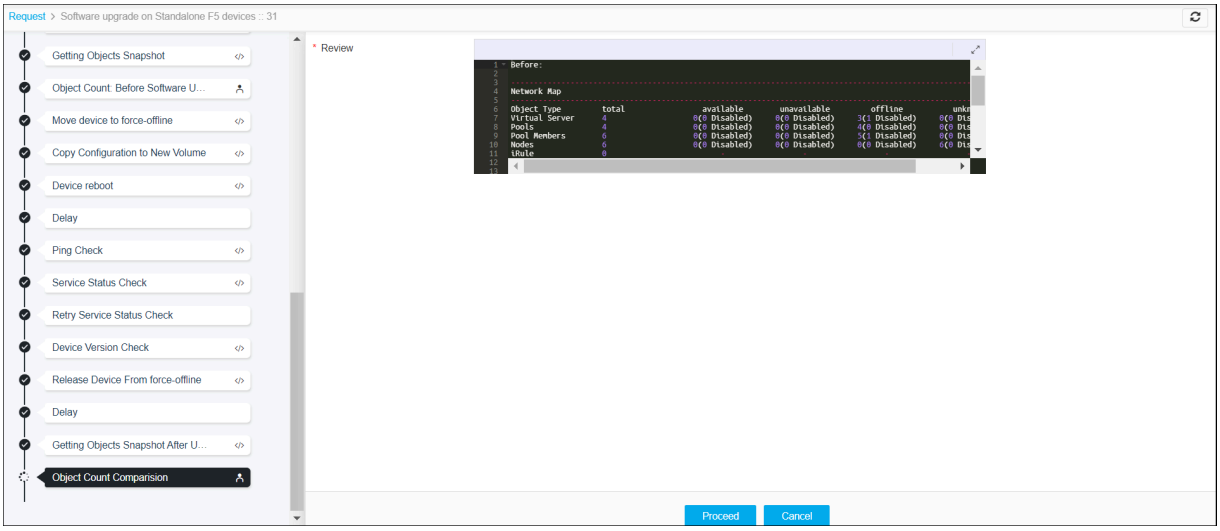
13. After the manual check, click the **Proceed** button.

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The Confirmation popup opens.

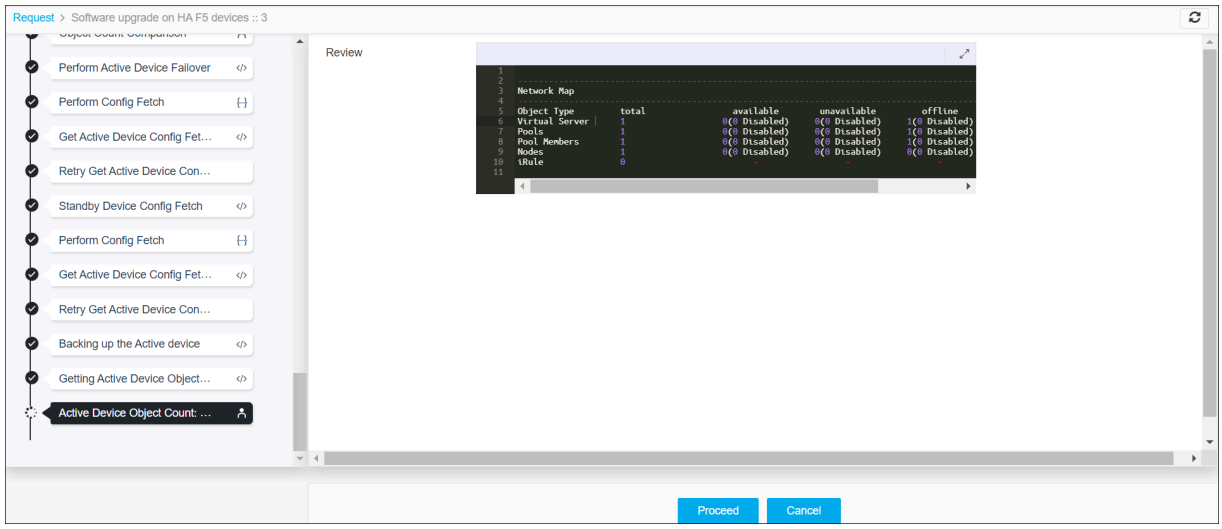
14. Click **Ok** to submit the form.
15. After the **Object Count Comparison**, click the **Proceed** button.



The Confirmation popup opens.

16. Click **Ok** to submit the form.
17. After the **Active Device Object Count**, click the **Proceed** button.

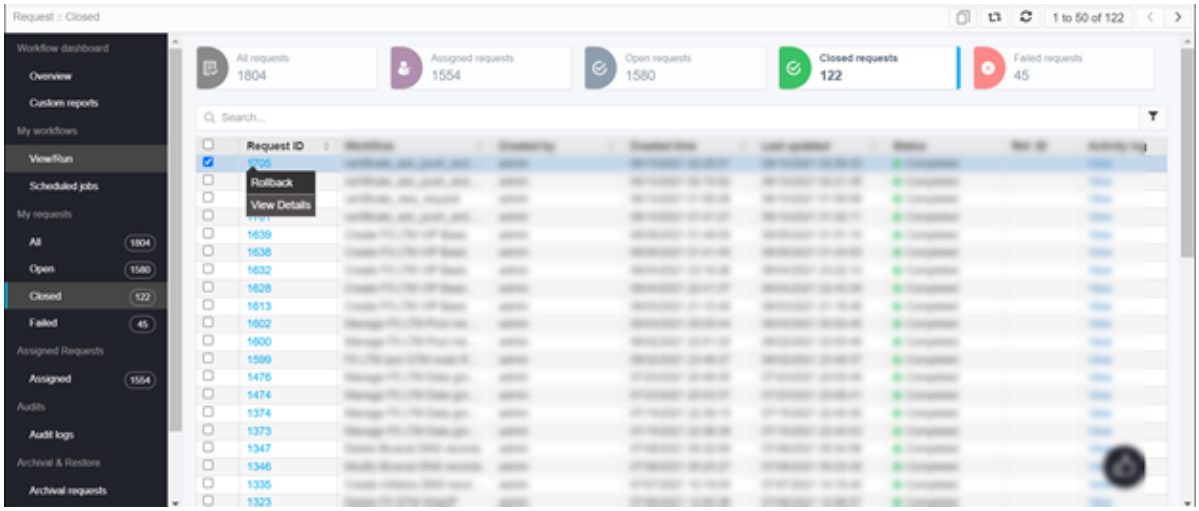
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The Confirmation popup opens.

18. Click **Ok** to submit the form.
19. The implementation process for software upgrade is completed:

    <screenshot>
20. In case the request has to be reverted, perform the following steps:
    - Go to the **Menu** > **Request** > **All**.
    - Right-click the row on your desired Request ID.
    - Select the Rollback option.



- Select Yes on the Rollback confirmation dialog.
- A new request is triggered for performing rollback.

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Compliance - CVE Reporting and Golden Config Compliance

The workflows grouped under this sub-category are:

- Fetch F5 BIG-IP CVEs
- F5 BIG-IP CVE Reporting
- F5 BIG-IP Golden Config Compliance

Fetch F5 BIG-IP CVEs

- Overview
- Prerequisites
- Running F5 BIG-IP CVE Reporting

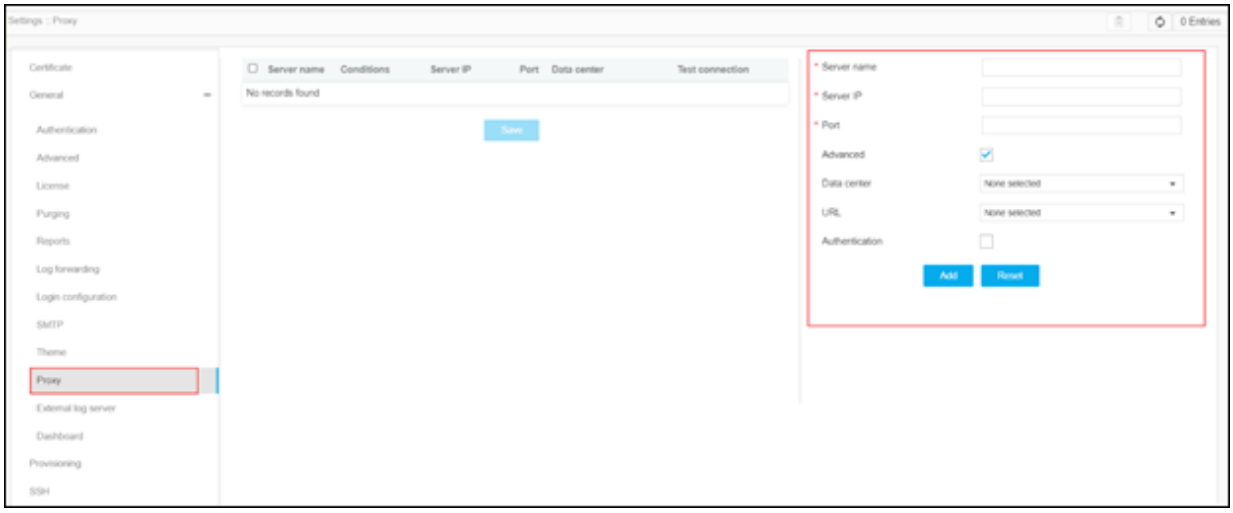
Overview

This workflow fetches a list of CVE vulnerabilities from the Global site https://cve.mitre.org/ and stores them in the AppViewX Database. By using these vulnerabilities stored in the Database, the managed F5 load balancers in AppViewX can be validated to see whether they are vulnerable or not. This workflow only downloads the vulnerability data from the site and stores it in the database. The vulnerability validation and report generation can be done using the F5 BIG-IP CVE Reporting workflow. The vulnerabilities are identified for the Modules (LTM, GTM, ASM, AFM).

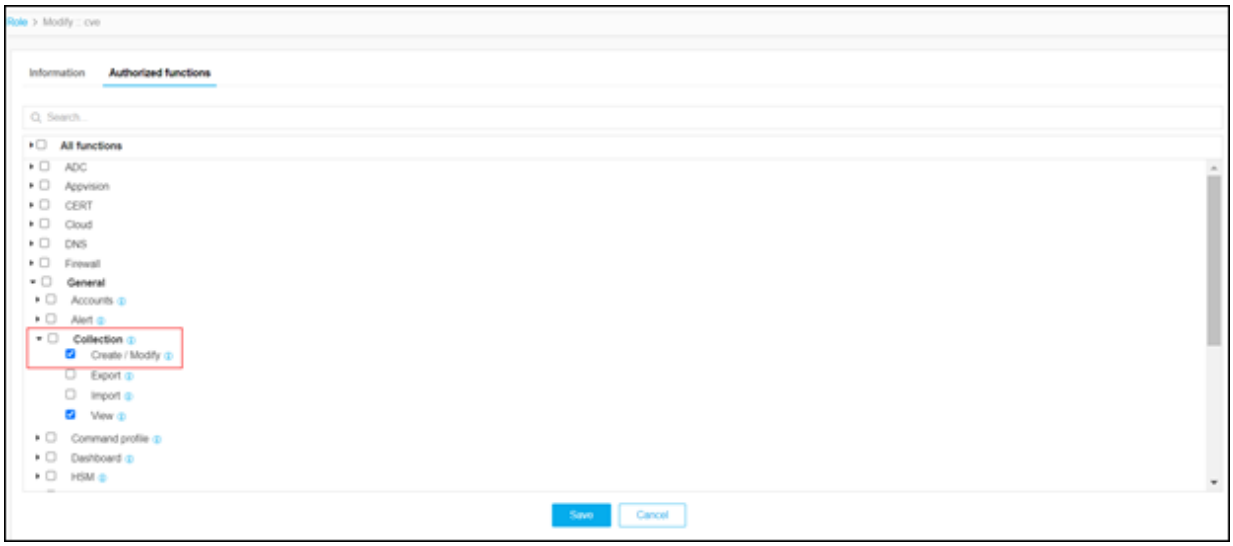
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Prerequisites

- The VM (Virtual Machine) in which AppViewX is installed should have internet access or access to the proxy server, the proxy server should be configured in AppViewX. To configure, go to **Settings** > **General** > **Proxy**.



- You must be mapped to a role in which access to Collection, **Create/Modify** should be enabled to run this workflow.



Running F5 BIG-IP CVE Reporting

To run this workflow,

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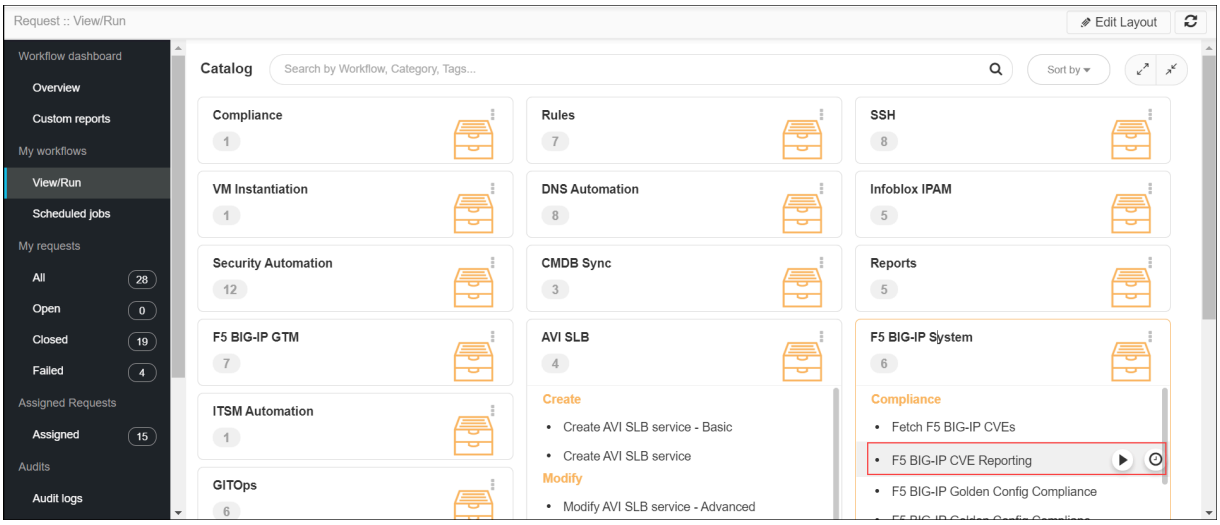
1. Go to **Menu** > **Request** > **View/Run**.

   The ADC OOB workflows are listed.



2. In the Workflow Catalog page, hover over the Fetch F5 BIG-IP CVEs workflow.

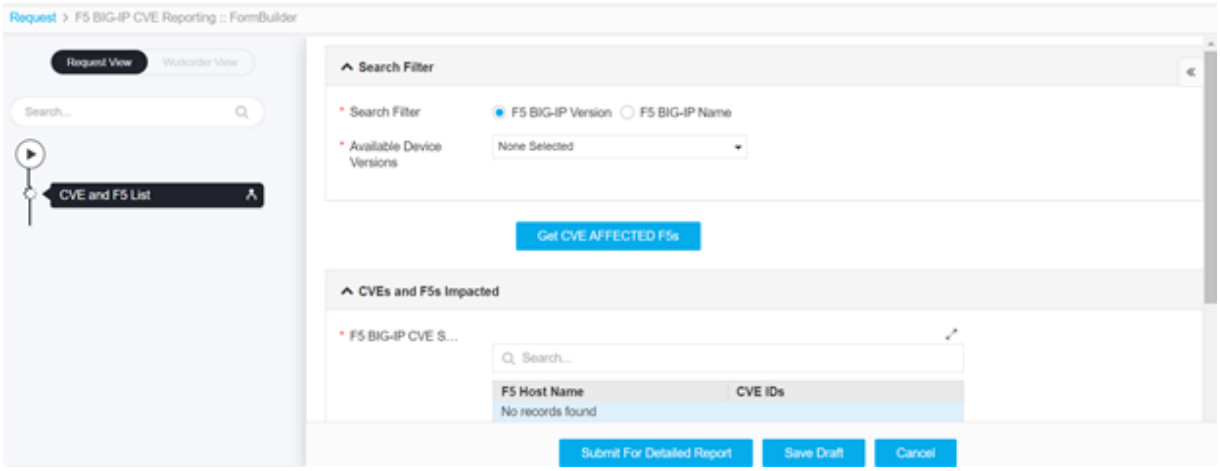
   The Run and Schedule buttons are shown.



3. Click the Run  button.

   The Form Input page opens:

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4. Enter or select the field information in the **Search Filter** section of Form Input.



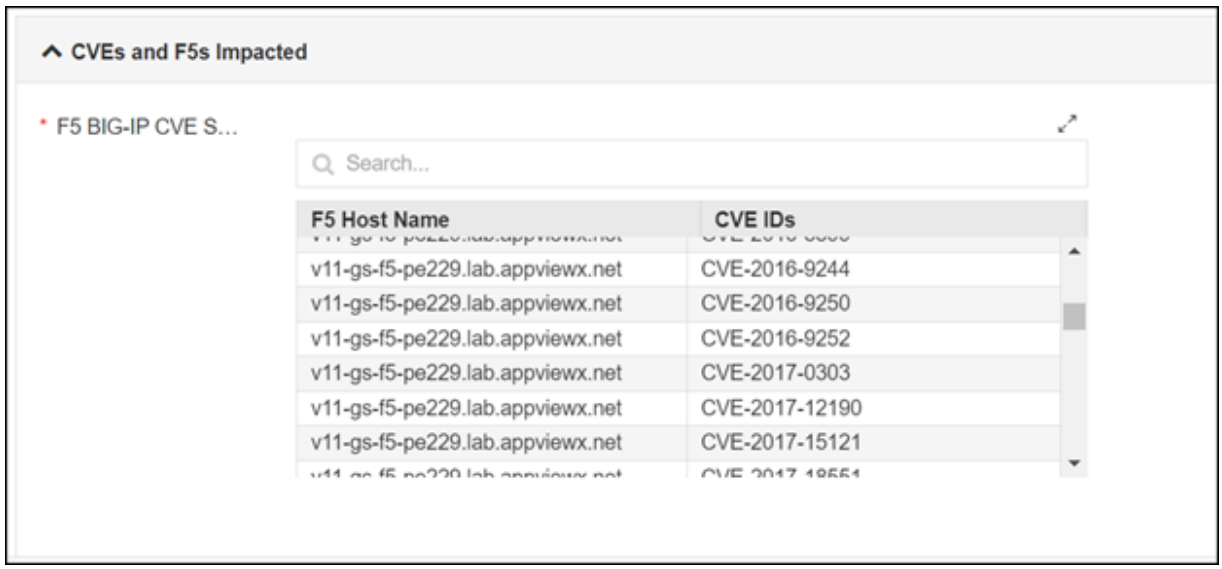
5. The following table provides the field description for the **Search Filter** section of Form Input:

Field	Description
Search Filter	Select the search filter. The possible options are: • F5 BIG-IP Version – This option allows you to get the devices based on the product version. The product versions listed in the drop-down option are in the format <major version>.x.x. The vulnerabilities will be validated for the devices of selected product versions. • F5 Big-IP Name – This option allows you to get the devices based on the name.
*Available Device Versions	Select the devices or product version from the drop-down list for which CVE validation to be triggered. The drop-down list is displayed if Search Filter is F5 BIG-IP Version.

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Field	Description
*Available Devices	Select the devices from the drop-down list for which CVE validation to be triggered. The drop-down list is displayed if Search Filter is F5 BIG-IP Name.

6. Click the **Get CVE AFFECTED F5s** button to get the devices which are affected by the CVE vulnerabilities.



The devices that are affected by the vulnerabilities are listed in the CVEs and F5s Impacted section.

7. If this report is to be sent via email, select the **Get Report By Email** option as **Yes**, and then enter the email IDs in the **Email_id** field.



Note: Multiple email IDs can be added as comma-separated values.

8. Click the **Submit For Detailed Report** button.

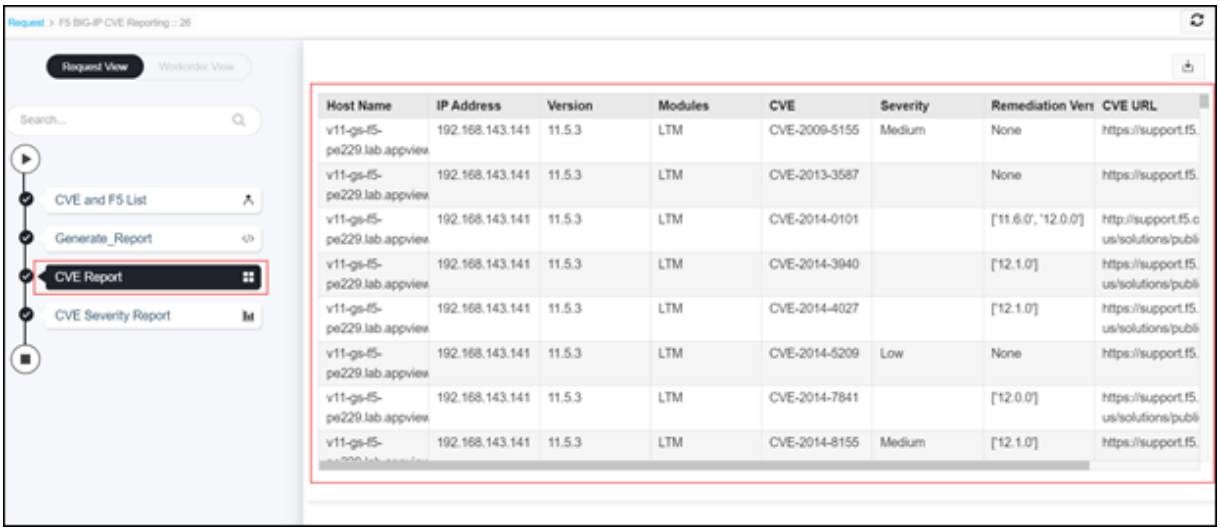
Note:

- To save this form for later run by clicking the **Save Draft** button.
- To cancel this workflow, click the **Cancel** button.

9. Click **Ok** in the Confirmation popup.
   The report generation starts automatically.

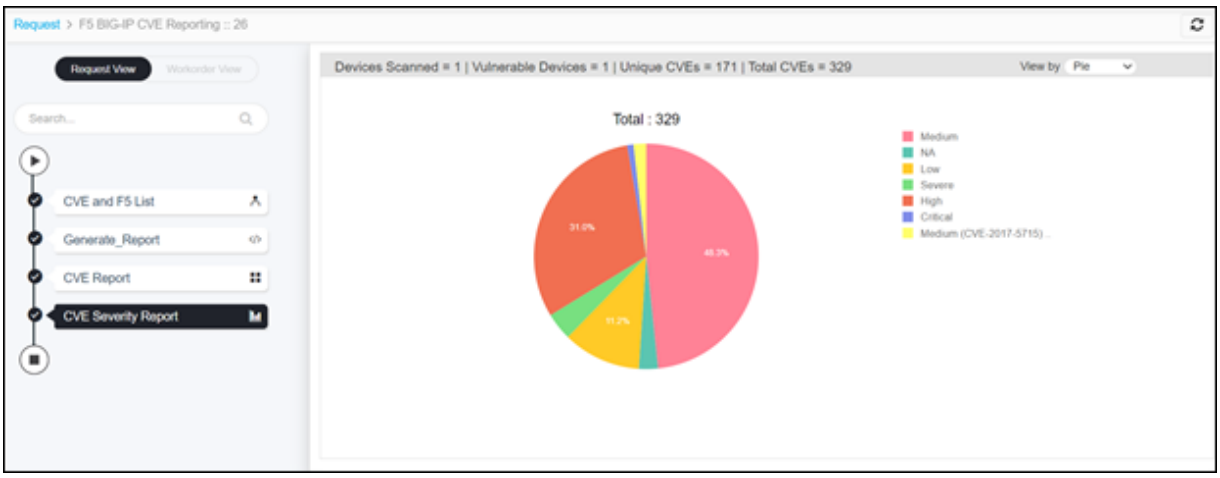
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10. The CVE Report and CVE Severity Report are generated.
11. To view the CVE Report, click the **CVE Report** tab in the left panel.



The report can be downloaded by clicking the Download ( ) button.

12. To view CVE Severity Report, click the **CVE Severity Report** tab in the left panel.



The view of this report can be changed from Pie chart or Donut view by selecting the option from the View by drop-down option.

13. The CVE Severity Report displays the following details:
    - **Device Scanned** – Total number of scanned devices.
    - **Vulnerable Devices** – Total number of vulnerable devices in the devices scanned.

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- **Unique CVEs** - Unique vulnerability.
- **Total CVEs** – Cumulative count of severities (Critical, Medium, High, etc.) reported for each module (LTM, GTM, AFM, and ASM) in the device. The severity reported for a module is identified only if the module is enabled in AppViewX while adding the device in the Inventory.

The remediation versions are mentioned for each module (LTM/GTM/AFM/ASM) in the vulnerable devices, in the CVE Report tab. If required, trigger the F5 BIG-IP Software Upgrade on Standalone or F5 BIG-IP Software Upgrade on HA Devices to fix the vulnerabilities in the device.

F5 BIG-IP CVE Reporting

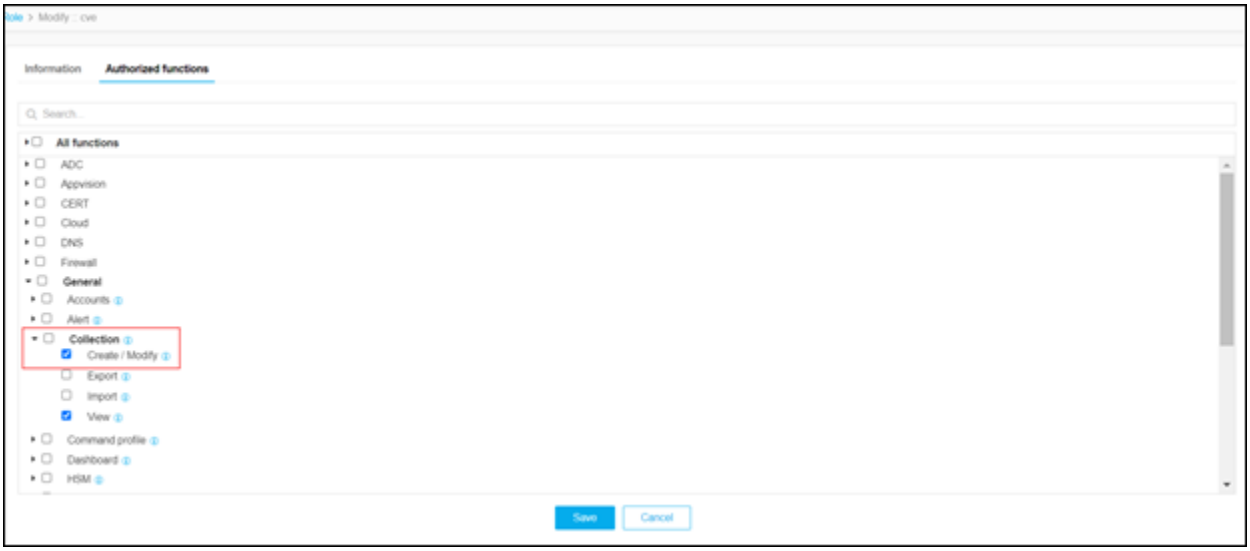
- Overview
- Prerequisites
- Running F5 BIG-IP CVE Reporting

Overview

This workflow validates the vulnerabilities against the device and generates reports. Before you run this workflow, make sure to run the Fetch F5 BIG-IP CVEs workflow to get the latest vulnerabilities list from the Global site.

Prerequisites

You must be mapped to a role in which access to Collection, **Create/Modify** should be enabled to run this workflow.

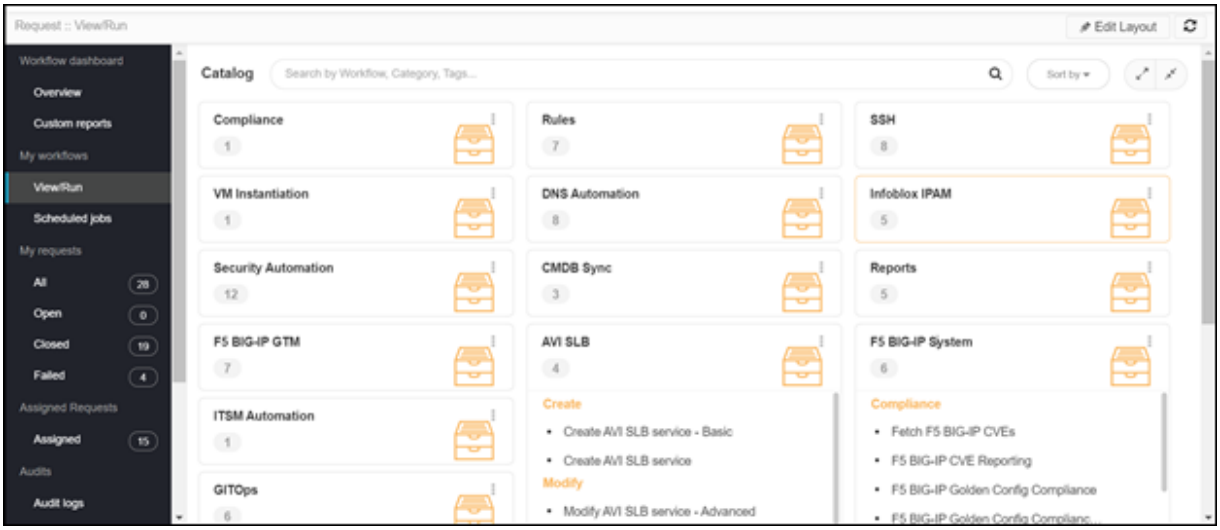


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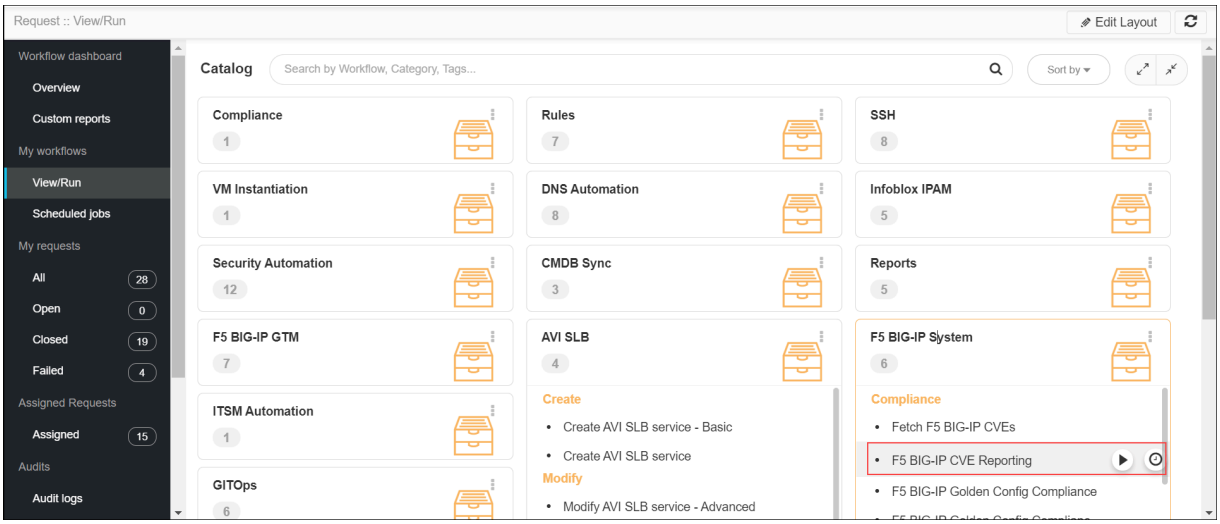
Running F5 BIG-IP CVE Reporting

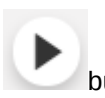
To run this workflow,

1. Go to **Menu** > **Request** > **View/Run**.
   The ADC OOB workflows are listed.



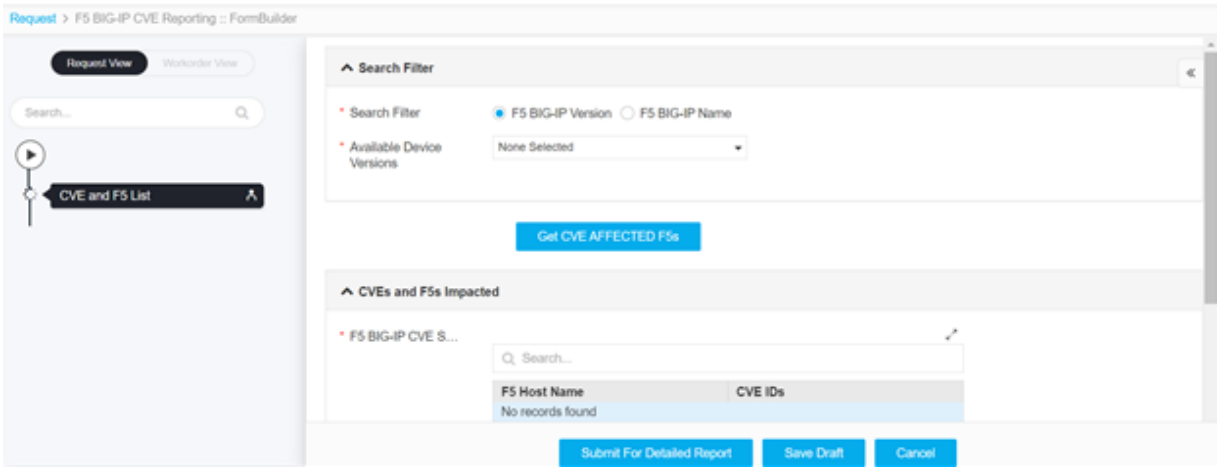
2. In the Workflow Catalog page, hover over the Fetch F5 BIG-IP CVEs workflow.
   The Run and Schedule buttons are shown.



3. Click the Run  button.

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The Form Input page opens:



4. Enter or select the field information in the **Search Filter** section of Form Input.



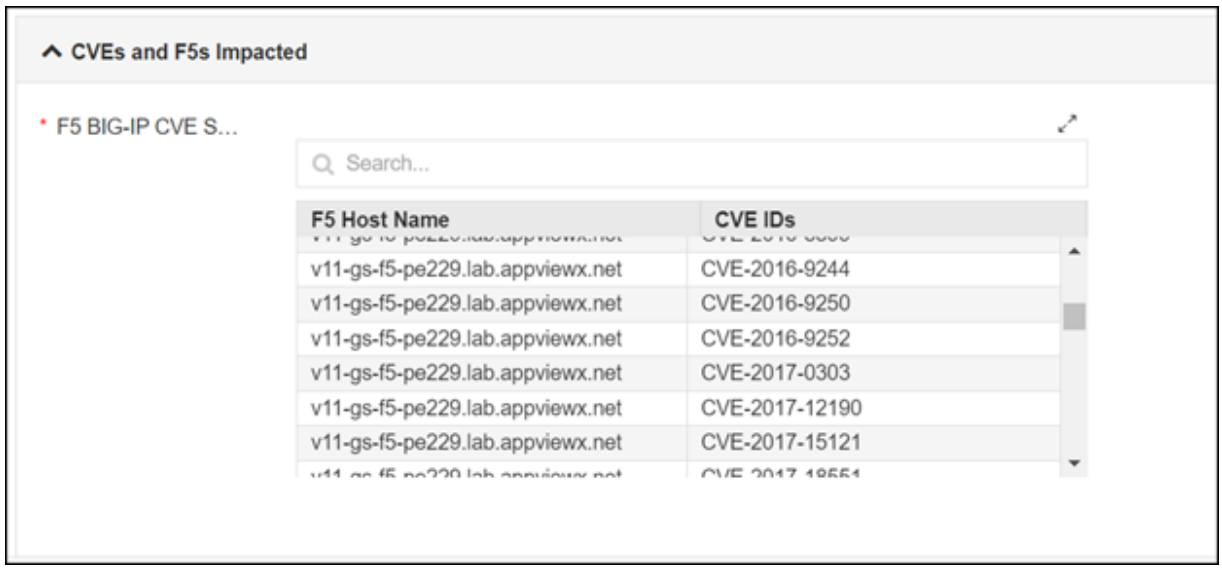
5. The following table provides the field description for the **Search Filter** section of Form Input:

Field	Description
Search Filter	Select the search filter. The possible options are: • F5 BIG-IP Version – This option allows you to get the devices based on the product version. The product versions listed in the drop-down option are in the format <major version>.x.x. The vulnerabilities will be validated for the devices of selected product versions. • F5 Big-IP Name – This option allows you to get the devices based on the name.
*Available Device Versions	Select the devices or product version from the drop-down list for which CVE validation to be triggered. The drop-down list is displayed if Search Filter is F5 BIG-IP Version.

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Field	Description
*Available Devices	Select the devices from the drop-down list for which CVE validation to be triggered. The drop-down list is displayed if Search Filter is F5 BIG-IP Name.

6. Click the **Get CVE AFFECTED F5s** button to get the devices which are affected by the CVE vulnerabilities.



The devices that are affected by the vulnerabilities are listed in the CVEs and F5s Impacted section.

7. If this report is to be sent via email, select the **Get Report By Email** option as **Yes**, and then enter the email IDs in the **Email_id** field.



Note: Multiple email IDs can be added as comma-separated values.

8. Click the **Submit For Detailed Report** button.

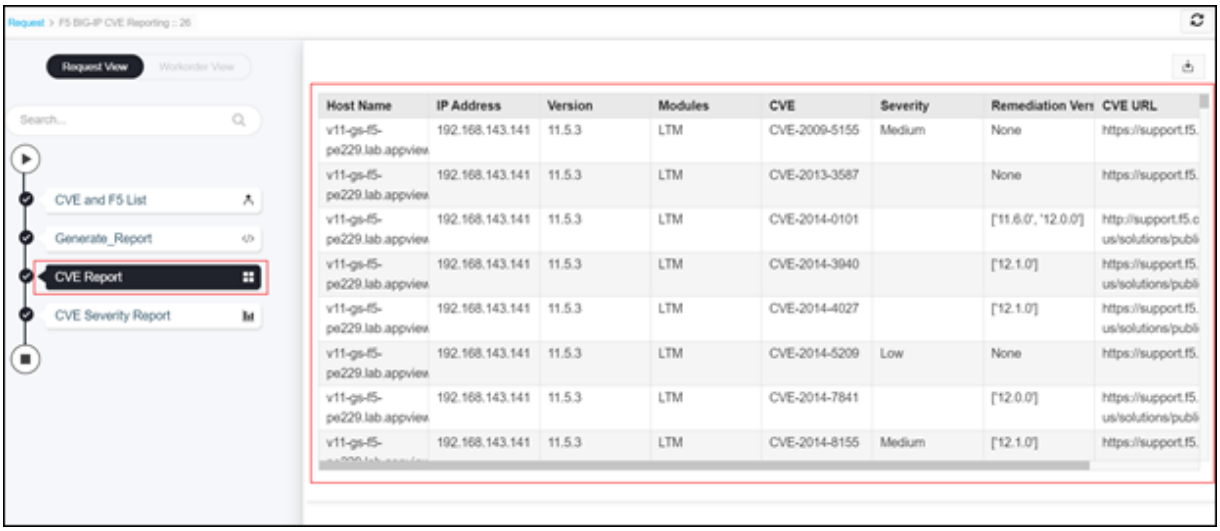
Note:

- To save this form for later run by clicking the **Save Draft** button.
- To cancel this workflow, click the **Cancel** button.

9. Click **Ok** in the Confirmation popup.
   The report generation starts automatically.

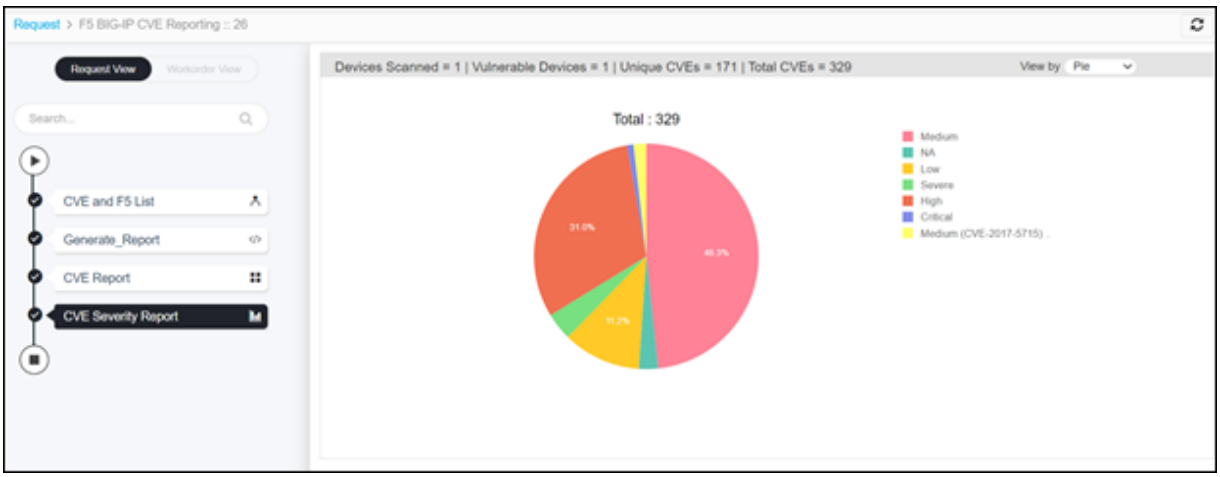
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10. The CVE Report and CVE Severity Report are generated.
11. To view the CVE Report, click the **CVE Report** tab in the left panel.



The report can be downloaded by clicking the Download () button.

12. To view CVE Severity Report, click the **CVE Severity Report** tab in the left panel.



The view of this report can be changed from Pie chart or Donut view by selecting the option from the View by drop-down option.

13. The CVE Severity Report displays the following details:
    - **Device Scanned** – Total number of scanned devices.
    - **Vulnerable Devices** – Total number of vulnerable devices in the devices scanned.

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- **Unique CVEs** - Unique vulnerability.
- **Total CVEs** – Cumulative count of severities (Critical, Medium, High, etc.) reported for each module (LTM, GTM, AFM, and ASM) in the device. The severity reported for a module is identified only if the module is enabled in AppViewX while adding the device in the Inventory.

The remediation versions are mentioned for each module (LTM/GTM/AFM/ASM) in the vulnerable devices, in the CVE Report tab. If required, trigger the F5 BIG-IP Software Upgrade on Standalone or F5 BIG-IP Software Upgrade on HA Devices to fix the vulnerabilities in the device.

F5 BIG-IP Golden Config Compliance

- Overview
- Prerequisites
- Running F5 BIG-IP Golden Config Compliance

Overview

This workflow validates a set of default parameters and custom parameters, if any, in the F5 load balancers managed in the AppViewX. Post validation, it generates a report of compliant and non-compliant parameters.

- **Complaint parameter** - The value of the parameter in the device matches with the value defined in the Compliance Policy in AppViewX for the parameter.

- **Non-complaint parameter** - The value of the parameter in the device does not match with the value defined in the Compliance Policy in AppViewX for the parameter.

This workflow provides an option to make the non-compliant parameters to compliant parameters in the F5 load balancer by writing the value as defined in the AppViewX. AppViewX ships the Standard Compliance policy Default_F5_Configuration_Compliance with Default parameters and sample values. The Standard Compliance policy file is non-editable. You can create Custom Compliance policies with Custom or selected Default parameters of your choice.

- Default Parameters – The parameters supported by default in AppViewX are:

  - Command to read the values for the parameter.
  - Command to write the value for the parameter.
  - Command to revert the value for the parameter.

In F5, the commands are defined in AppViewX.

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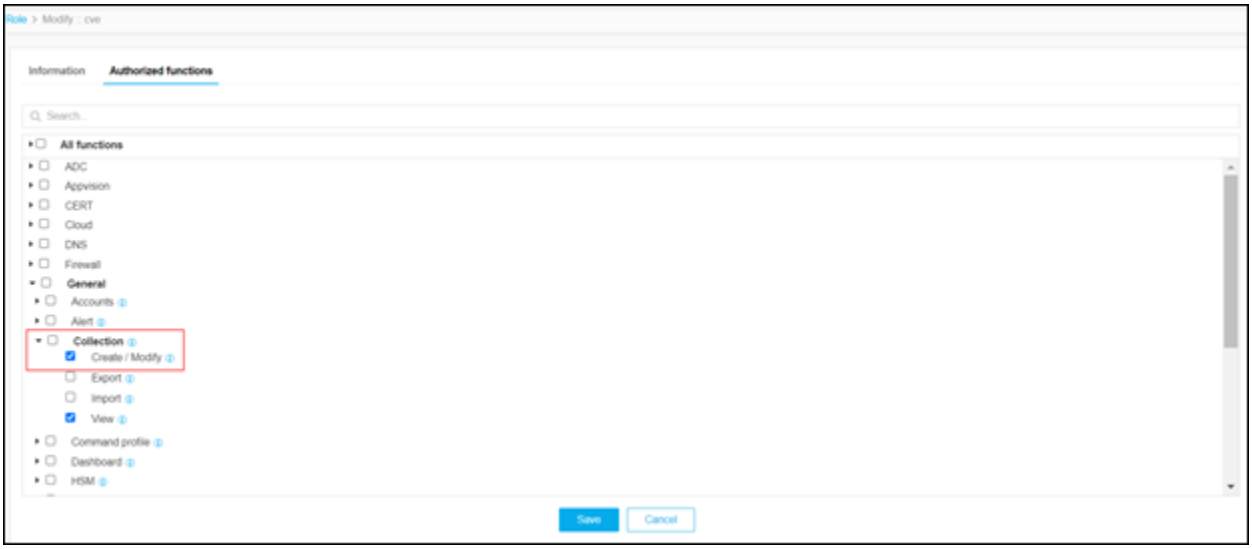
- Custom Parameters – The Parameters newly added by the user. The user must provide the command to read, the command to write, the command to revert, as an input in the Workflow.

Compliant or Non-compliant parameters are decided based on the logic below:

- A value is mapped to a parameter in the Policy.
- The Parameter complete config is taken from the device, as a response.
- If the value defined in the Policy is available in the response, then it is compliant, else non-compliant. For a few default parameters (syslog_param, cm-device-group-auto-sync, net-self-allow-service), the logic changes. For more details, click here.

Prerequisites

You must be mapped to a role in which access to Collection, **Create/Modify** should be enabled to run this workflow.

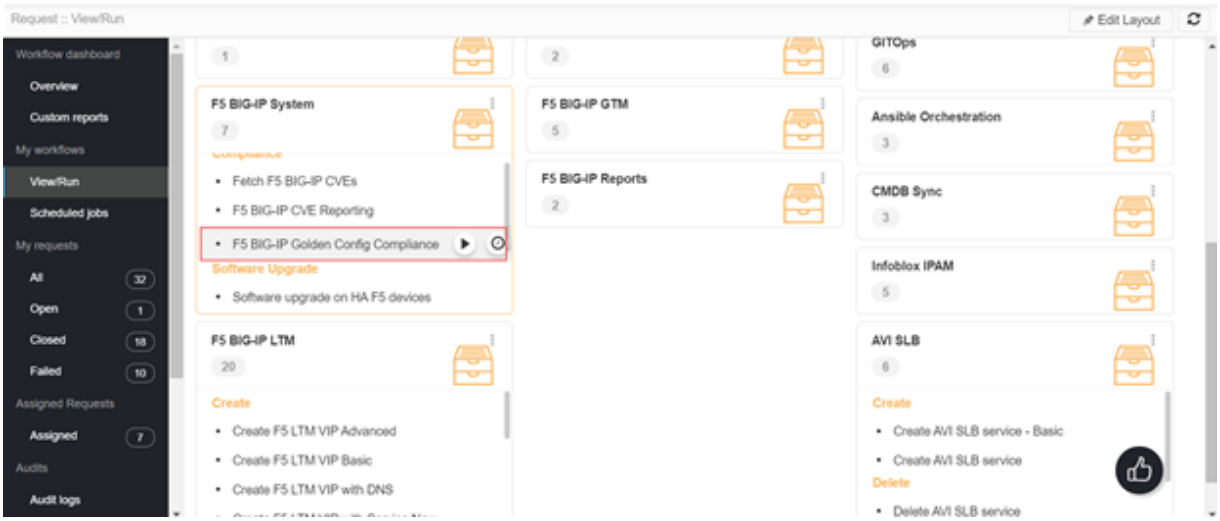


Running F5 BIG-IP Golden Config Compliance

To run this workflow,

1. Go to ☰ **Menu** > **Request** > **View/Run**.
   The Workflow Catalog page appears.
2. In the Workflow Catalog page, hover over the **F5 BIG-IP Golden Config Compliance** workflow.

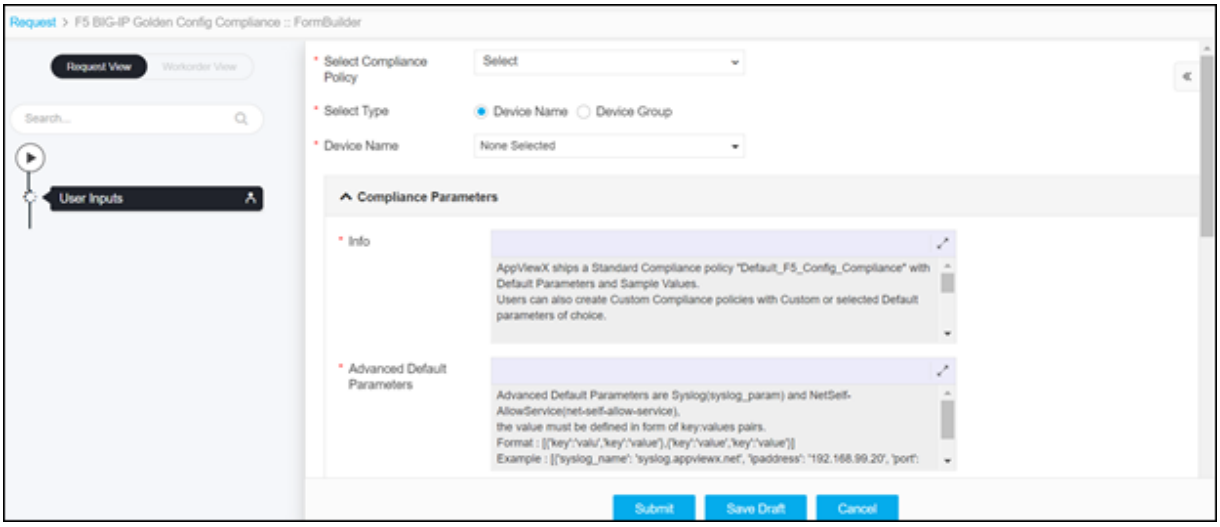
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The Run and Schedule buttons are shown.

3. Click the Run  button.

   The Form Input page opens:



4. Select the **Select Compliance Policy** from the drop-down option.

   The Compliance Policy options are:

   - **Create New Compliance** – Select this option if you want to create a custom compliance policy file. When you select this option, the Compliance Policy Name field is shown in the form input to enter the name of the compliance policy file name.



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- **Default_F5_Configuration_Compliance** - Select this option to use the Standard Compliance policy file, which was shipped by AppViewX.
- **<Custom Compliance Policy File Name>** - Other custom compliance policy files If any custom compliance policy file was created already.

5. Select the **Select Type** options are:



- **Device Name** - When you select **Device Name** option, you get the option to select devices in the **Device Name** field for which the compliance policy validation is triggered.

Note: Only the devices that are in managed and active status are displayed for the selection.



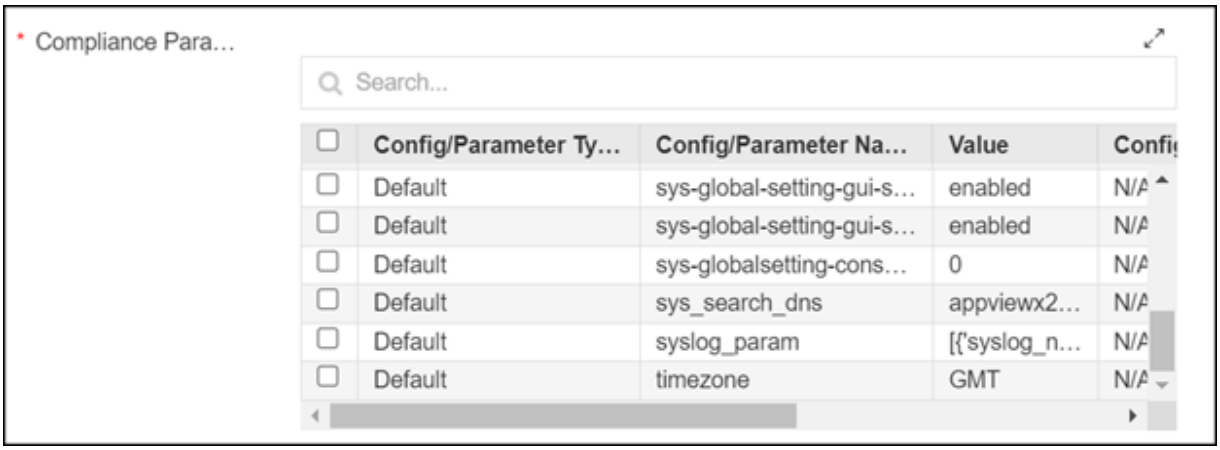
- **Device Group** - When you select the Device Group option, you get the option to select the device group in the Device Group field for which the compliance policy validation is triggered.

Note: Only the devices that are in managed and active status within the group are displayed.



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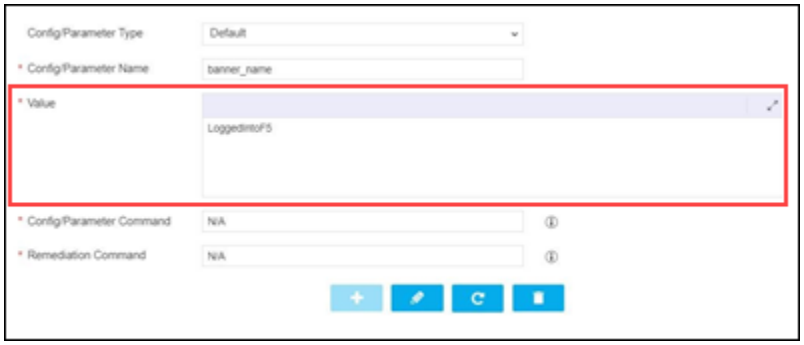
6. After the **Device Name** selection or **Device Group** selection, the Compliance Parameter Table is updated with the parameters based on the selected compliance policy.



- When the **Create New Compliance** or **Default_F5_Configuration_Compliance** option is selected in the **Select Compliance Policy** field, the **Compliance Parameter Table** displays the Default parameters.
  - The Default Parameters Value in the **Compliance Parameter** table must be modified accordingly. To modify,
    - Select a Param:



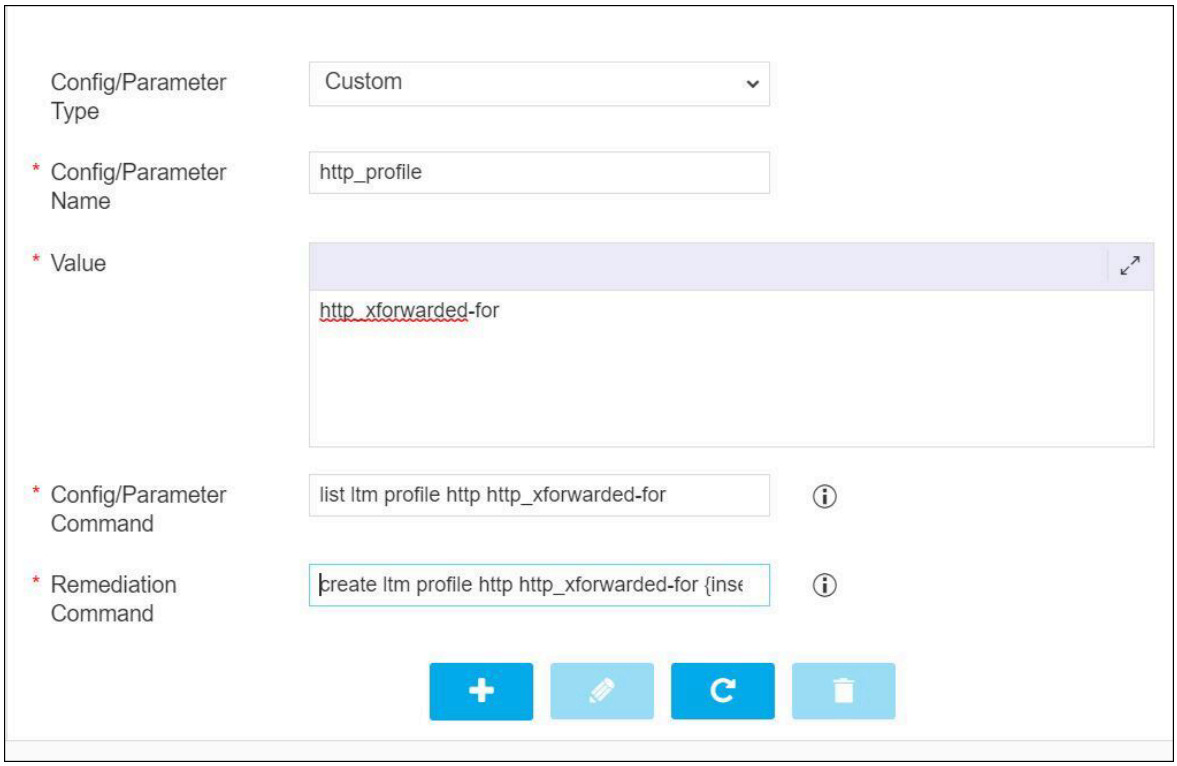
    - Modify **Value** for a Param:



    - Update the Value. To update the modified value into the table, click the edit  button.

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- New Custom Parameters can also be added. The custom parameter can be added by providing the details for it as follows:



- If the Default compliance policy is selected and the values are modified, save this as a new compliance policy by clicking the **Save as** option as **Yes**.



- If you select the **Save as** option as **No**, the modified values or added any custom parameter will not be saved as a new compliance policy.
- On selecting a specific compliance policy in the beginning of this form, the **Compliance Parameter Table** displays default and custom parameters as customized.
- If any values are modified or any new custom parameter is added to the table, then you can save them in the compliance policy by selecting the option Update Policy – **Yes**.



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Note:

- You can only update the values for the default parameters and should not modify the Config/Parameter Name field for Default parameters. Modifying the Config/Parameter Name field might lead to incorrect validation.
- Any new Config/Param added as type Default will also be considered as Custom parameter.

7. In the Compliance Parameter Table, select or enter the following details:

Field	Description
Config/ Parameter Type	You can select **Custom** or Default Config/Parameter type. For Custom Compliance policy, the Config/Parameter type is considered as **Custom** by default even if it is selected as **Default**.
Config/ Parameter Name	Enter the config/parameter name.
Value	Enter the expected value in the device for the parameter.
Config/ Parameter Command	Enter the command to validate the parameter (Applicable only for Custom Parameter). For the Default parameter, the command is defined by AppViewX.
Remediation Command	Enter the command to remediate the parameter (Applicable only for the Custom parameter). For the Default parameter, the command is defined by AppViewX.

8. To add a new parameter to the Compliance Parameter Table, click Add () button After adding the parameter, you can manage (update/delete) it.
9. Click the **Submit** button.
   The Confirmation popup opens.

Note:

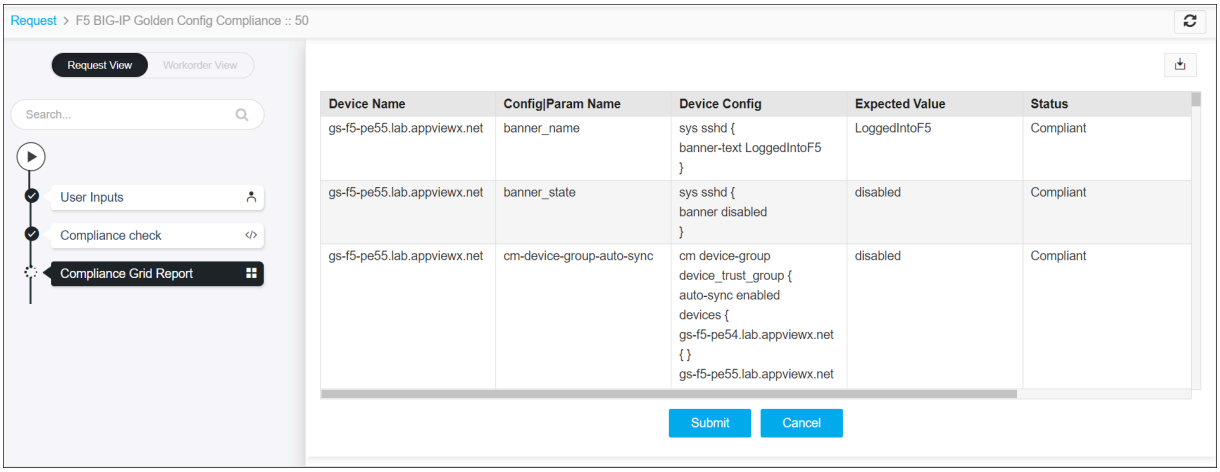
- If you want to save this form to edit it later, click the **Save Draft** button, and then click **Ok** in the Confirmation popup window. The form will be saved as Open request under **Request** > **All**.
- If you want to cancel this form, click the **Cancel** button.

10. Click **Ok** to submit the form.

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11. The Compliance Check runs automatically and generates **Compliance Grid Report**.
12. From the Compliance Grid Report, you get to know if the device parameters are Compliant or Non-Compliant.

    You can download the **Compliance Grid Report** in the .csv or .xlsx format by clicking the Download () button.



    The summary of the Compliance Grid Report are:

    - The first column displays the device name.
    - The other columns display Config/Parameter names.
    - The report has two body rows. They represent the following:
    - First Row - the status of the Parameter in the device.
    - Second Row - the actual value of the parameter in the device.

13. Click the **Submit** button, and then click **Ok** in the confirmation pop-up.

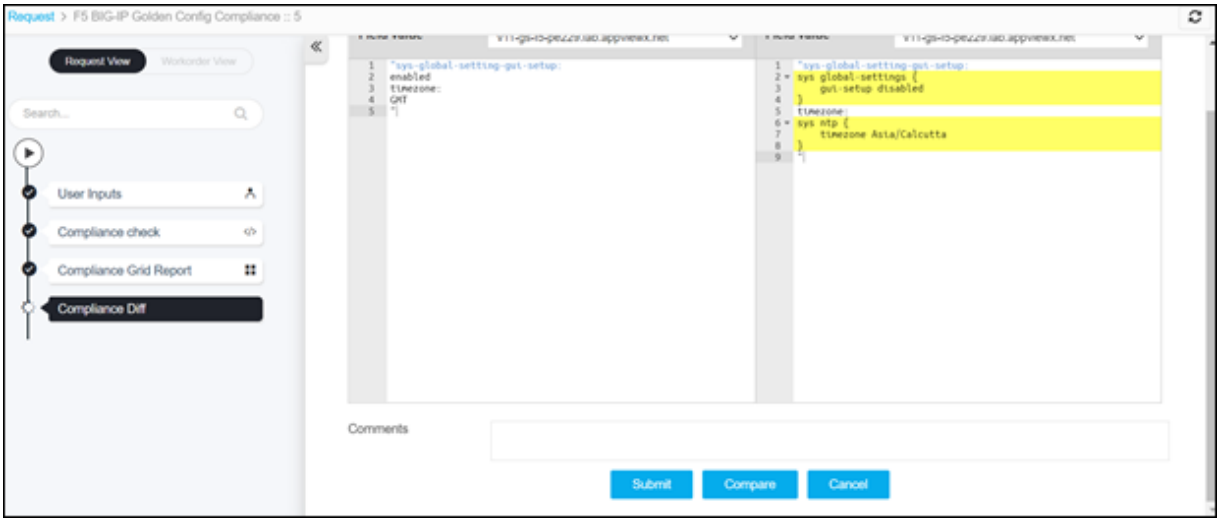
    The **Compliance Diff check** runs.

14. The **Compliance Diff check** displays the details of non-compliant parameters for each device.
15. The details are:

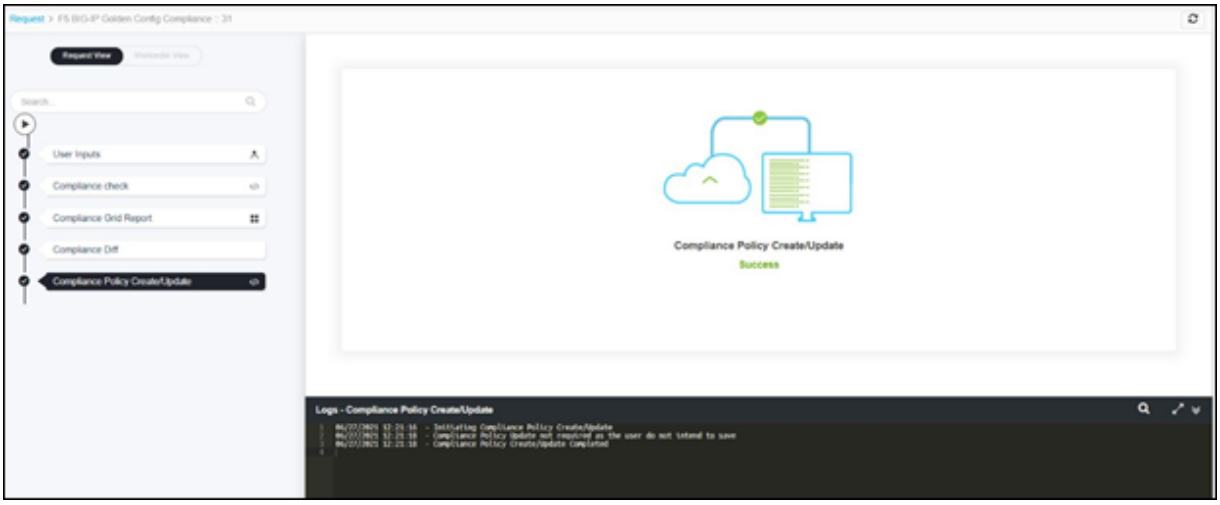
    - Parameter name and the value in the selected policy – shown in the left side of the diff Palate-Golden Config.
    - Parameter name and the value in the selected device - shown in the right side of the diff Palate-actual config.

> **Note:** To view the compliance difference for the other devices, select a device from the field value drop-down list in the left and/or right side of the diff Palate.

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16. Click the **Submit** button, and then click **Ok** in the confirmation pop-up.
17. The **Compliance Policy Create/Update** runs automatically:



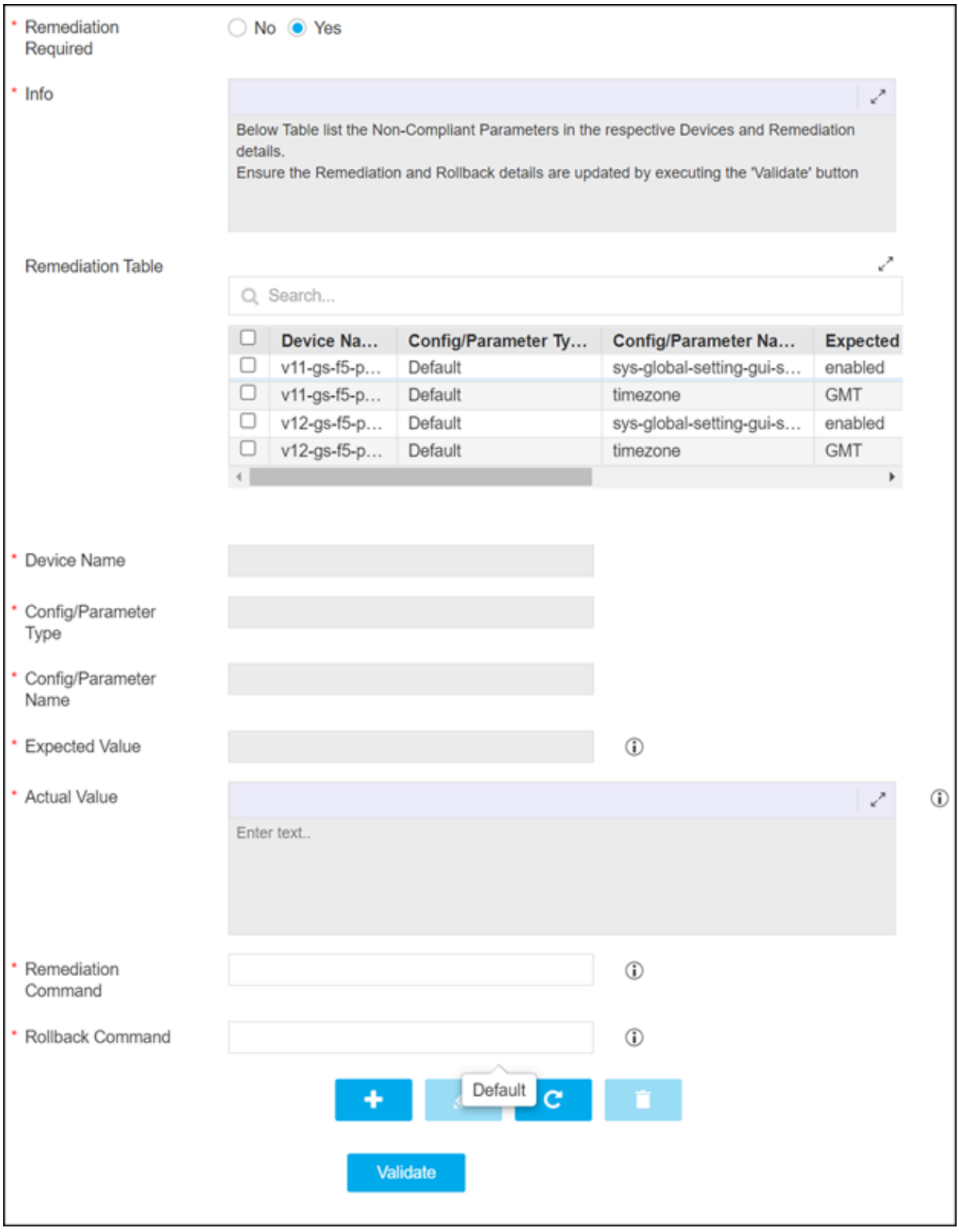
> **Note:** At this phase, the policy is created/updated if you have selected the option Create New Compliance, SaveAs – Yes, Update Policy -Yes in the form input.

18. Remediation Review: The Page displays a list of the Non-Compliant Parameters. By default, two options are displayed: No, Yes.

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- **No** – By default this option is selected. When this option is selected and you **Submit**, the remediation will not be applied to the non-compliant parameters, the workflow ends.
- **Yes** – When you select **Yes**, the remediation table is displayed for the non-compliant parameters.

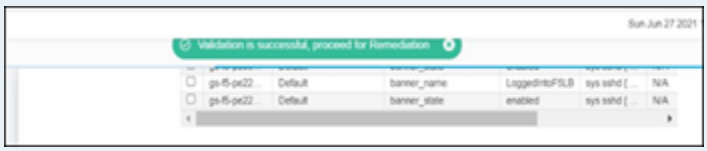
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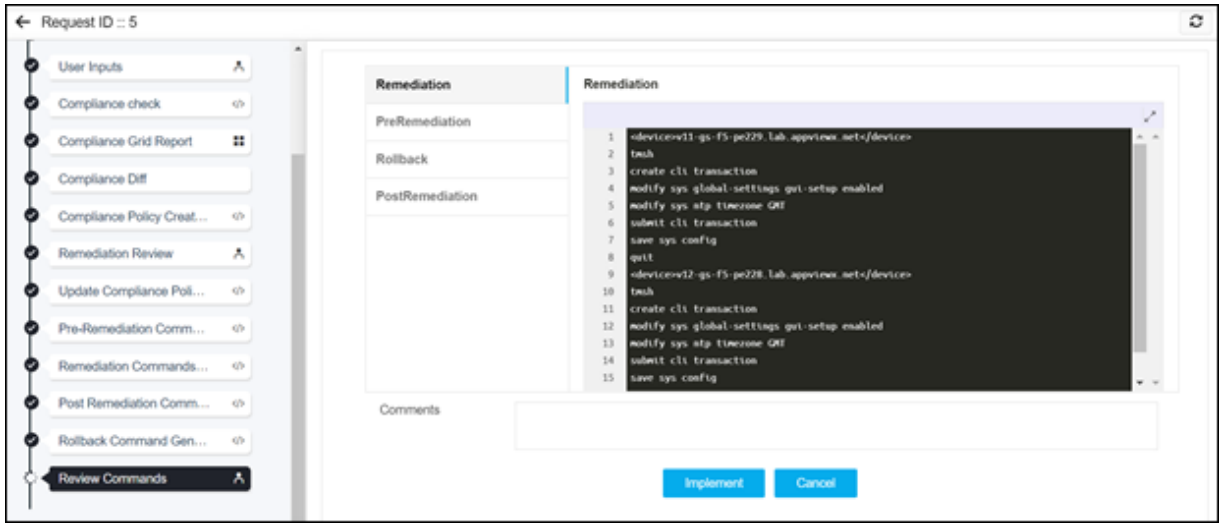
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Note:

- In case any custom parameter is part of this remediation table, then update the rollback command in the **Rollback Command** field.
- For default parameters, the remediation or rollback command is not required to be provided.
- If the rollback command is not updated for the custom parameter, you do not get the rollback option in case to revert the device parameter to the older state.
- Once the remediation command and rollback command are updated to the device, click the Update button.
- Validate the remediation and rollback details by clicking the Validate button until the message Validation is Successful is seen.



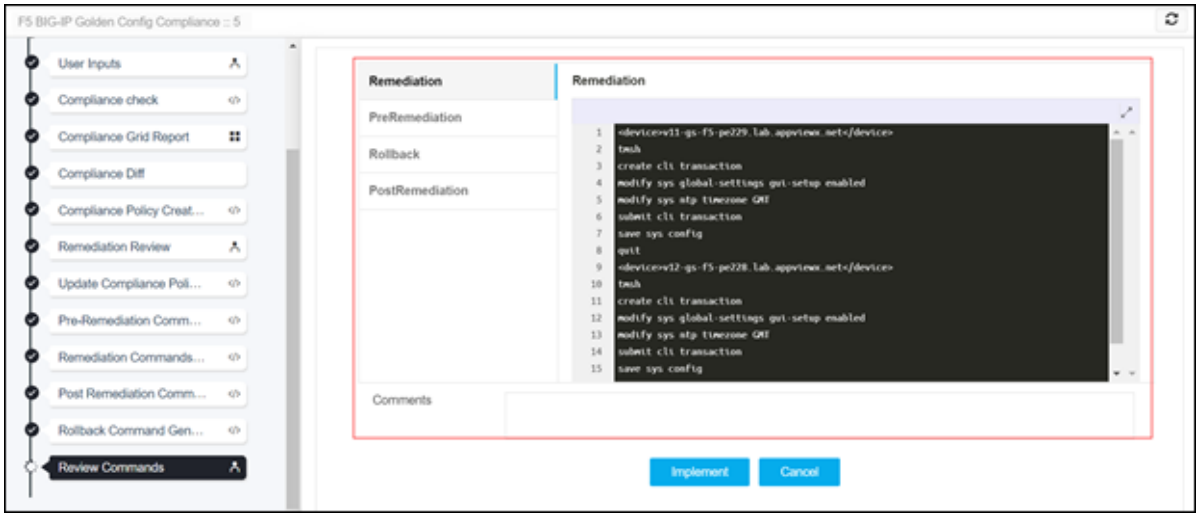
19. Click the **Submit** button, and then click **Ok** in the confirmation pop-up.
    The update of remediation and rollback commands run automatically and generates Review Commands to review and implement the changes.



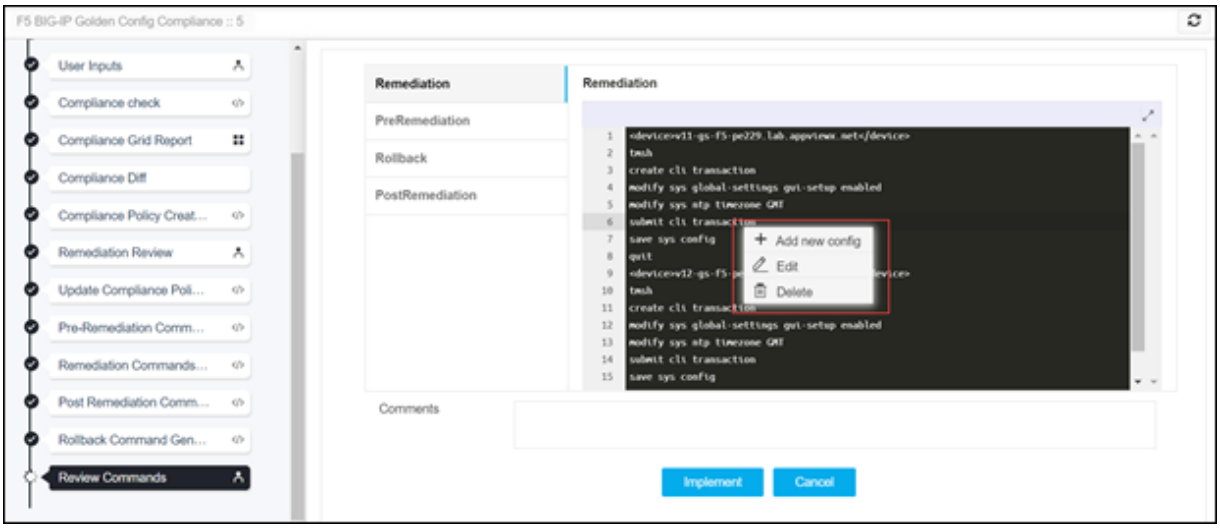
20. If required, review the commands that are about to be executed in the F5 load balances in the following tabs:
    - **Remediation**
    - **PreRemediation** – List the values of the parameter, prior Remediation.
    - **Rollback** – Revert the parameter's value to the previous state of Remediation.

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- **PostRemediation** - List the values of the parameter, post Remediation.



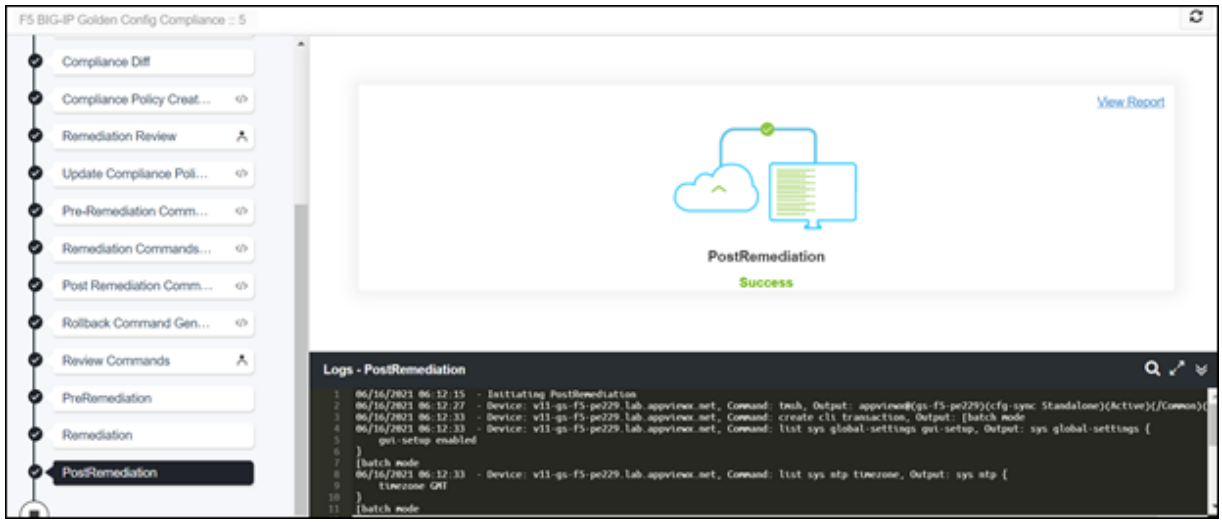
21. You can edit the commands at this stage, by clicking the right-mouse button in the desired tab.



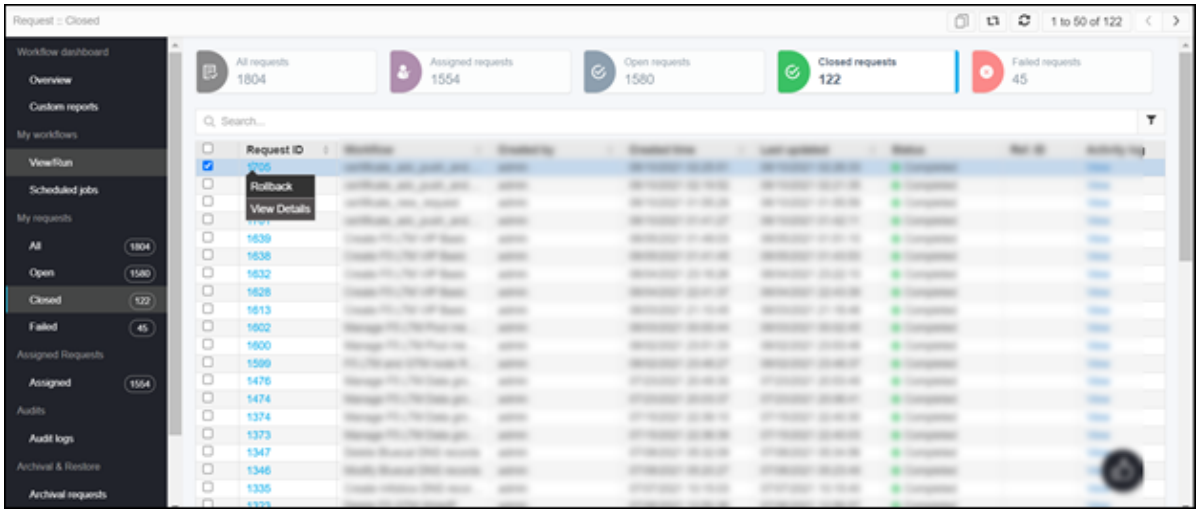
22. Once reviewed the commands, click the Implement button, and then click **Ok** in the confirmation pop-up.

    The implementation process completes:

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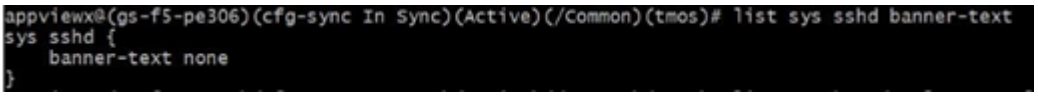
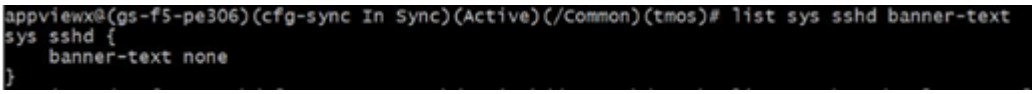
23. In case the request has to be reverted, perform the following steps
    - Go to the **Menu** > **Request** > **All**.
    - Right-click the row on your desired Request ID.
    - Select the **Rollback** option.



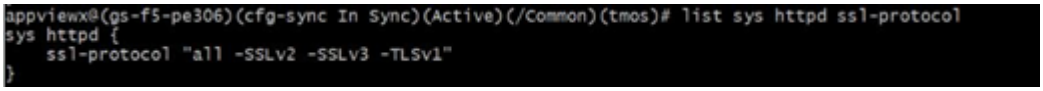
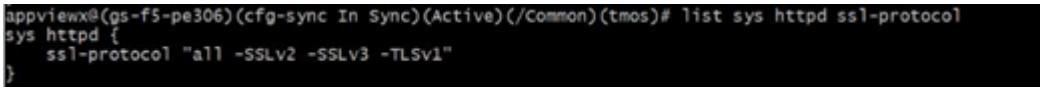
    - Select Yes on the Rollback confirmation dialog.
    - A new request is triggered for performing rollback.
24. Mapping for the Default Parameter Name to Actual Parameter in Device:

Default Parameter Name	Actual Parameter
banner_name:	

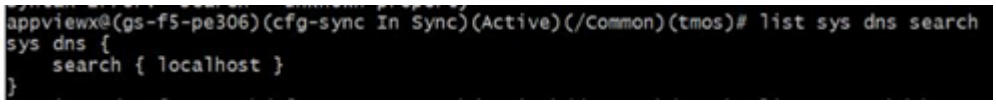
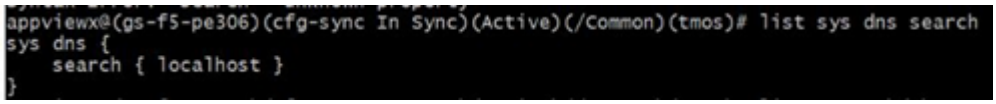
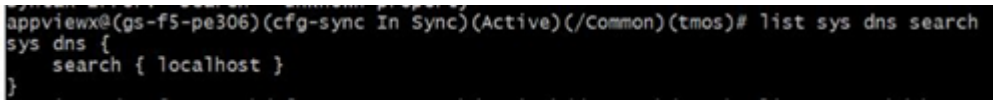
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Default Parameter Name	Actual Parameter
	
banner_state	
cm-device-group-auto-sync	Compliant or Non-Compliant is decided based on the below logic: In each of the cm device-group config, first it is checked whether “type sync-failover” is there. If it exists, then “auto-sync” value in the device is cross checked with the value defined in the Policy, if all match compliant, else non-compliant. Remediation happens only for Non-Complaints. 
dns_ip_address	
gateway_ip	
httpd-allow	

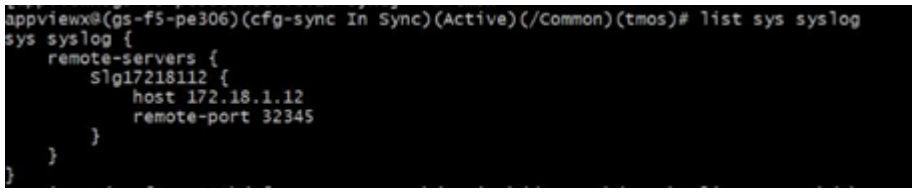
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Default Parameter Name	Actual Parameter
httpd-auth-pam-idle-timeout	
httpd-redirect-http-to-https	
httpd-ssl-protocol	
net-self-allow-service	The Parameter is compliant or Non-Compliant is decided based on the key “allow-service”. In each net self config, it is checked if the value of allow-service in the device matches with the one defined in AppViewX. If all config matches, it is Compliant, else it is Non-Compliant. Remediation happens only for the config that are Non-Compliant. Only Default Values are supported (none, default, all) and no custom values are supported. Example for custom value is tcp:8844. 
ntp_ip_address	
ssh_inactivity_timeout	

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Default Parameter Name	Actual Parameter
sys-global-setting-gui-security-banner	
sys-global-setting-gui-setup	
sys-globalsetting-console-inactivity-timeout	
sys_search_dns	
syslog_param	
syslog_param	Compliant or Non-Compliant is based on the points below: • If the IP and Port defined in Golden config match with the device, then compliant. Then, no action is required. • If Syslog Name, IP, or port defined in Golden config does not match, then it is non-compliant. Then, update the IP or port. • · If the Syslog Name and IP or port defined in the golden config do not match, then create a new Syslog config.

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Default Parameter Name	Actual Parameter
	
timezone	

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Chapter 6: AVI SLB

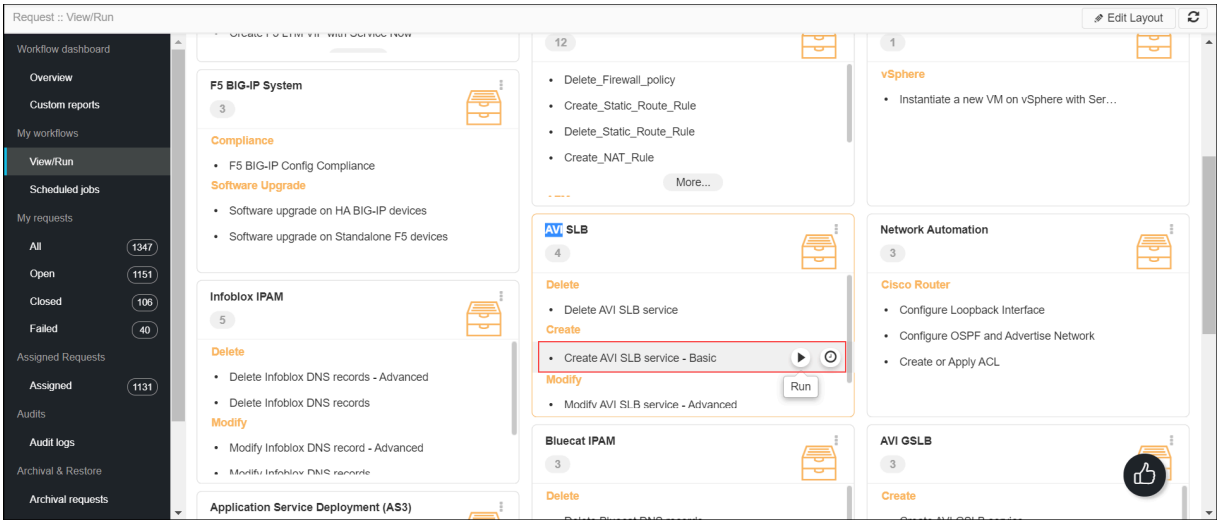
- Create AVI SLB service – Basic
- Modify AVI SLB service
- Modify AVI SLB service – Advanced
- Delete AVI SLB service

Create AVI SLB service – Basic

This workflow creates a virtual service on AVI devices. The virtual service can be of HTTP, HTTPS, L4, or L4 SSL/TLS type. The SSL certificate and SSL profile can be attached based on the virtual service type. The Pool members can be attached as IP and hostname, IP range, or IP group.

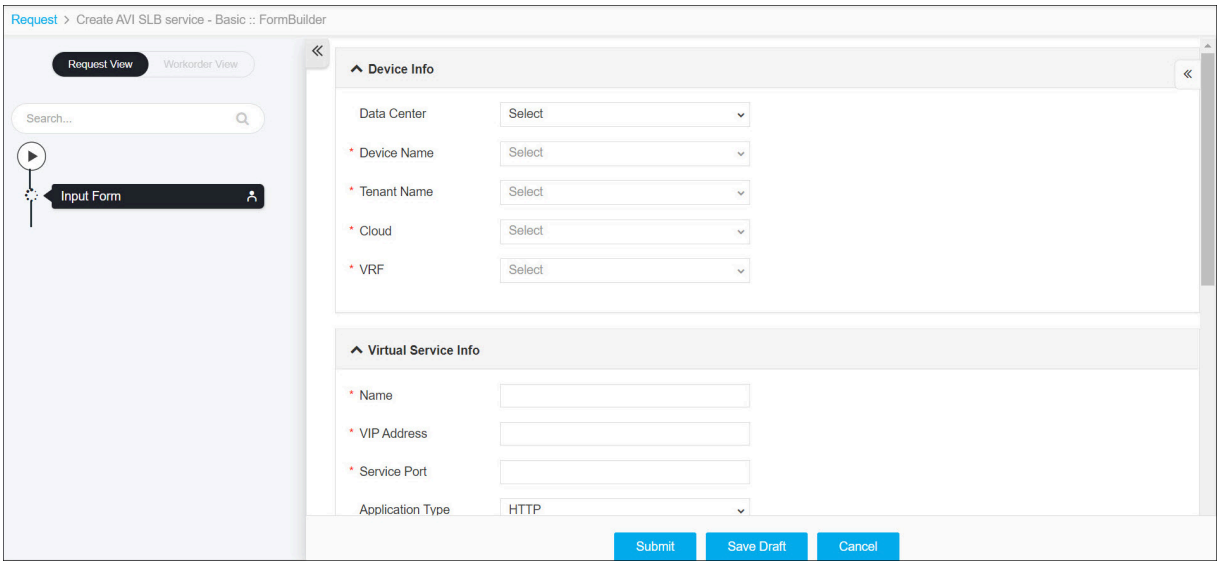
To run this workflow,

1. Go to **Menu** > **Request** > **View/Run**.
   The Workflow Catalog page appears.
2. In the Workflow Catalog page, hover over the **Create AVI SLB service – Basic** workflow.
   The Run and Schedule buttons are shown.

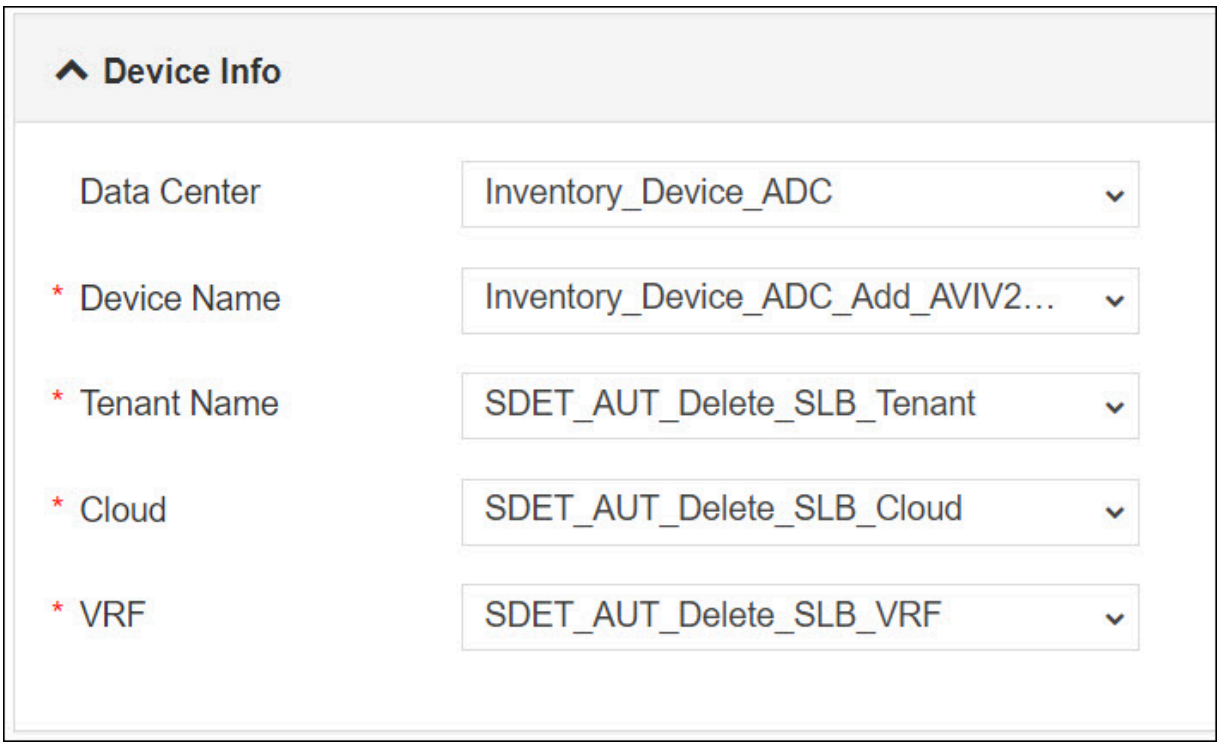


3. Click the Run button.
   The Form Input page opens:

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4. Select the field information in the **Device Info** section of Form Input.



5. The following table provides the field description for the **Device Info** section of Form Input:

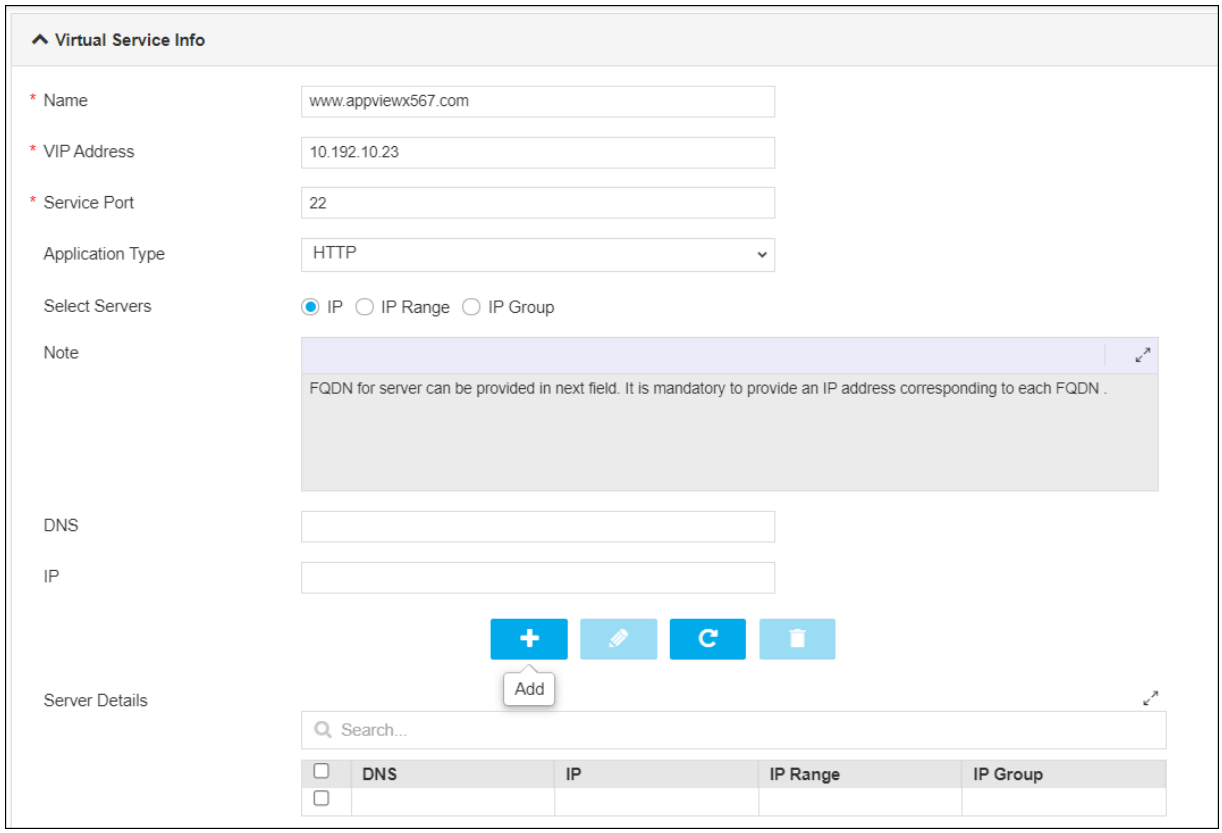
Field	Description
Data center	Displays the list of datacenters of the devices, which are created in the Device Inventory. Select the datacenter of a device from the drop-down option for which this request is to be

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Field	Description
	created. For the devices, which are created without a datacenter in the Device Inventory, select the datacenter as **None**.
*Device Name	Displays the list of devices associated with the selected datacenter. If the datacenter is selected as **None**, the devices that are created without datacenter details are listed. Select the desired device from the drop-down option.
*Cloud	Clouds are containers for the environment that Vantage is installed or operating within. During the initial setup of Vantage, a default cloud, named “Default-Cloud”, is created. This is where the first Controller is deployed, into Default-Cloud. Additional clouds may be added, containing SEs and virtual services. Select a cloud from the drop-down list.
*Tenant Name	A tenant is an isolated instance of Avi Vantage. Each Avi Vantage user account is associated with one or more tenants. The tenant associated with a user account defines the resources that users can access within Avi Vantage. When a user logs in, Avi Vantage restricts their access to only those resources that are in the same tenant. Select a tenant's name from the drop-down list.
*VRF	The Virtual Routing Framework (VRF) is a method of isolating traffic within a system. This is also referred to as a “Route Domain” within the load balancer community. Select a VRF from the drop-down list.

6. Enter or select the field information in the **Virtual Service Info** section of Form Input.

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7. The following table provides the field description for the **Virtual Service Info** section of Form Input:

Field	Description
*Name	Enter the name of the virtual server.
*VIP Address	Enter the VIP address.
*Service Port	Enter a service port.
*Application Type	Select one of the following application types from the drop-down list: • HTTP • HTTPS • L4 • L4 SSL/TLS
*Select Servers	Select one of the following servers for the pools to be attached:

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Field	Description
	• IP • IP Range • IP Group
DNS	Enter the FQDN.
IP	Enter the IP address.
Server Details	Click the add icon to add the virtual server details to the list. After adding the server details to the list, you can manage them.

8. Click the **Submit** button.
   The Confirmation popup opens.

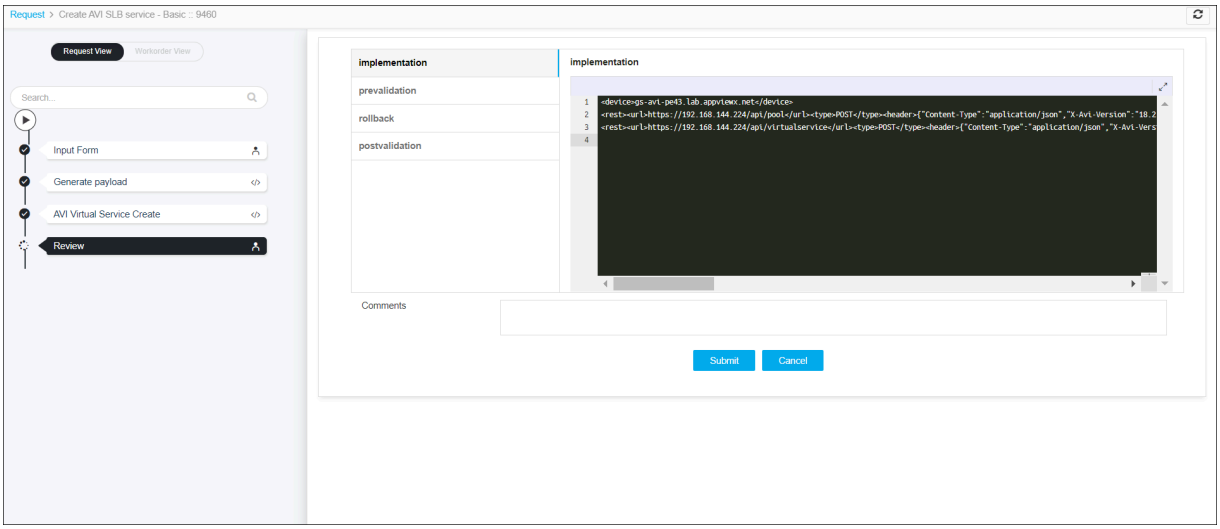
   Note:
   - If you want to save this form to edit it later, click the **Save Draft** button, and then click **Ok** in the Confirmation popup window. The form will be saved as Open request under **Request** > **My Request**.
   - If you want to cancel this form, click the **Cancel** button.

9. Click **Ok** to submit the form.
   The validation starts automatically and reaches the Review stage.

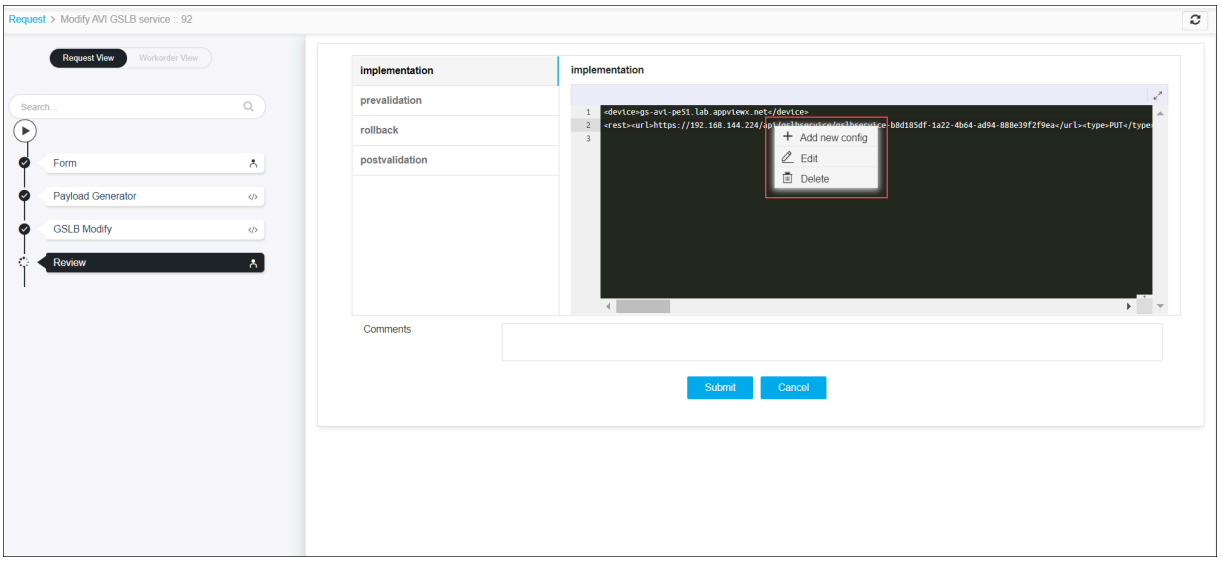
   Note:
   - If there is any failure at this stage, start a new request by providing the correct data.
   - Alternatively, select the failed request and clone it. Update the correct input data in the form input, and submit the workflow again.

10. Review the input data under the **implementation**, **rollback**, and **postvalidation** tabs:

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11. (Optional) If you need to update any data at this stage, you can do so by clicking the right-side of the mouse on the data and selecting the desired option.



12. After the review, click the **Submit** button.

    The Confirmation popup opens.

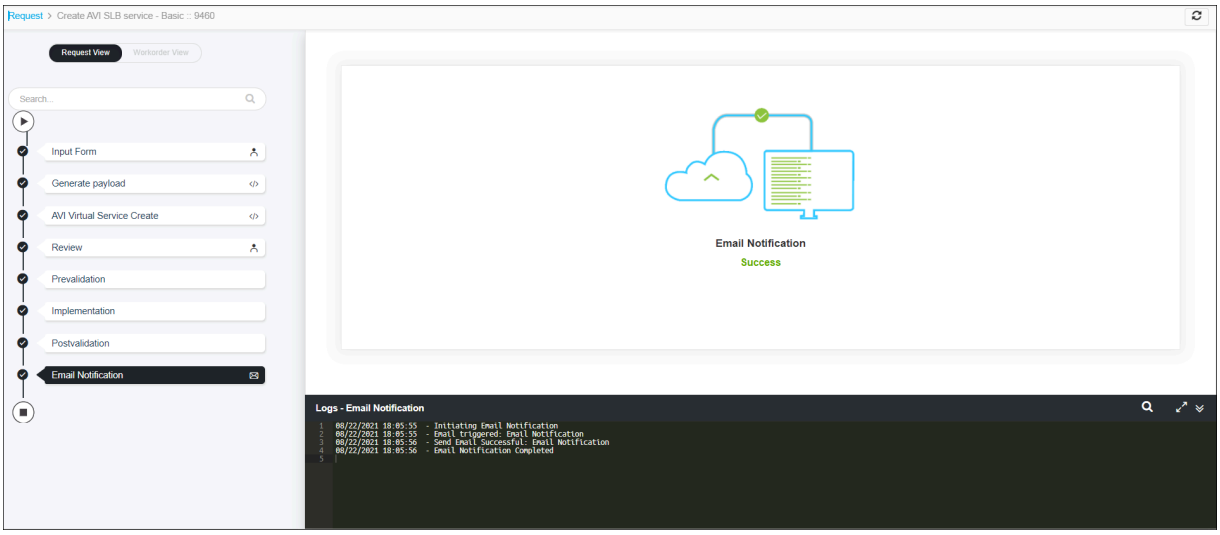
> **Note:** To stop running the workflow creation, click **Cancel**.

13. Click **Ok** to continue the workflow creation.

    It takes a while to complete the request.

14. The workflow is created and the email is triggered to the configured email IDs.

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Note: The stages of the request are shown in the left-side of the screen. To view a particular stage of the request, click the respective stage.

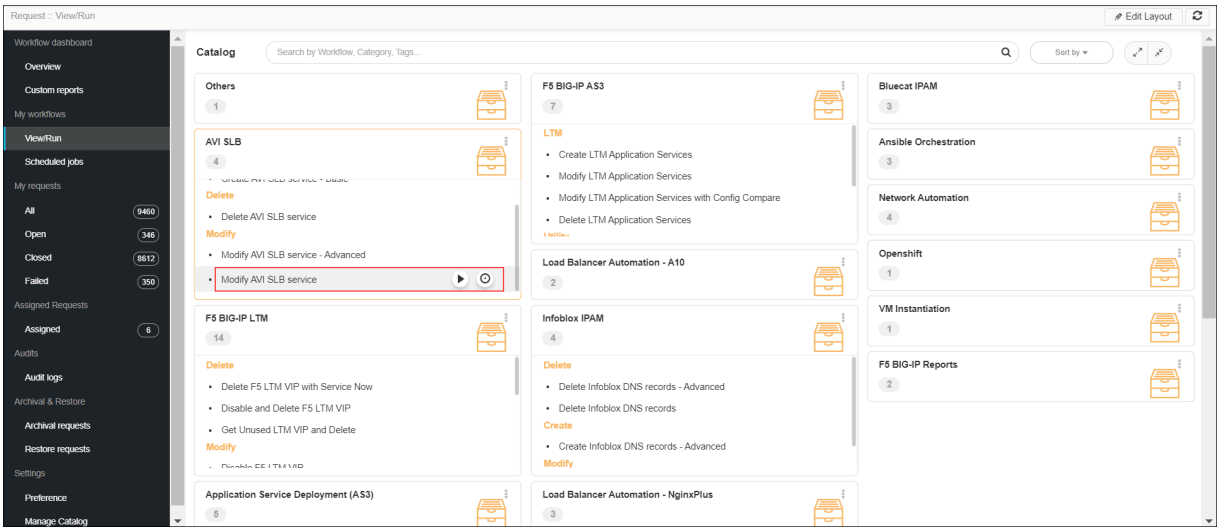
Modify AVI SLB service

By running this workflow, you can modify a virtual service on the AVI device.

To run this workflow,

1. Go to ☰ Menu > Request > View/Run.
   The Workflow Catalog page appears.
2. In the Workflow Catalog page, hover over the Modify AVI SLB service workflow.
   The Run and Schedule buttons are shown.

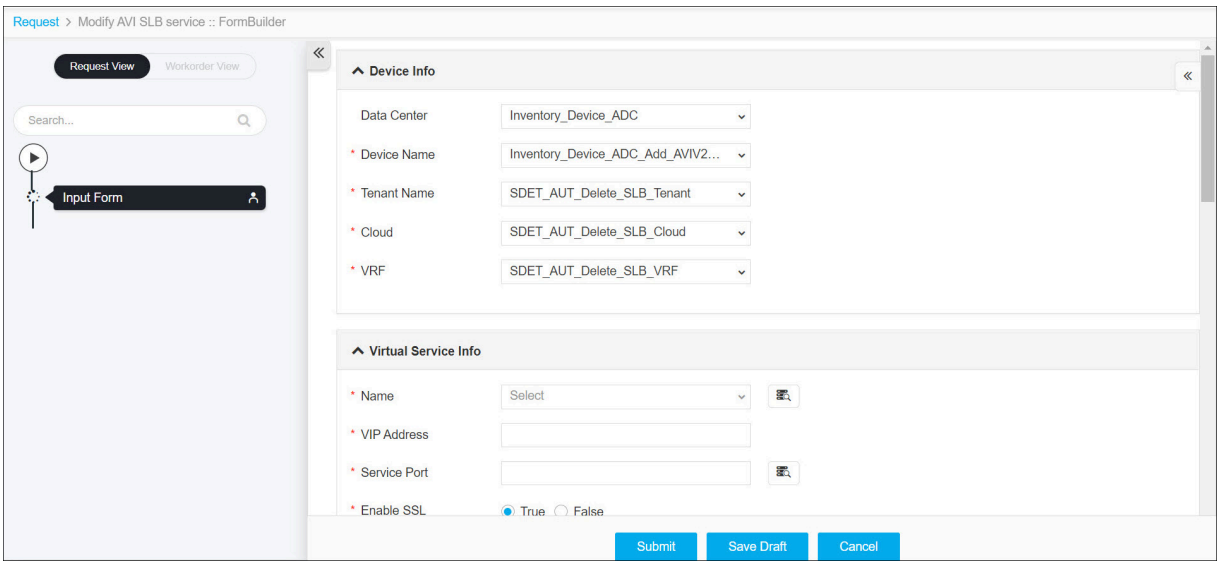
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3. Click the Run  button.

   The Form Input page opens:

4. Provide the device information and fetch the details of a virtual service.



5. Modify the necessary details of a virtual service for a device.
6. Click the **Submit** button.

   The Confirmation popup opens.

Note:

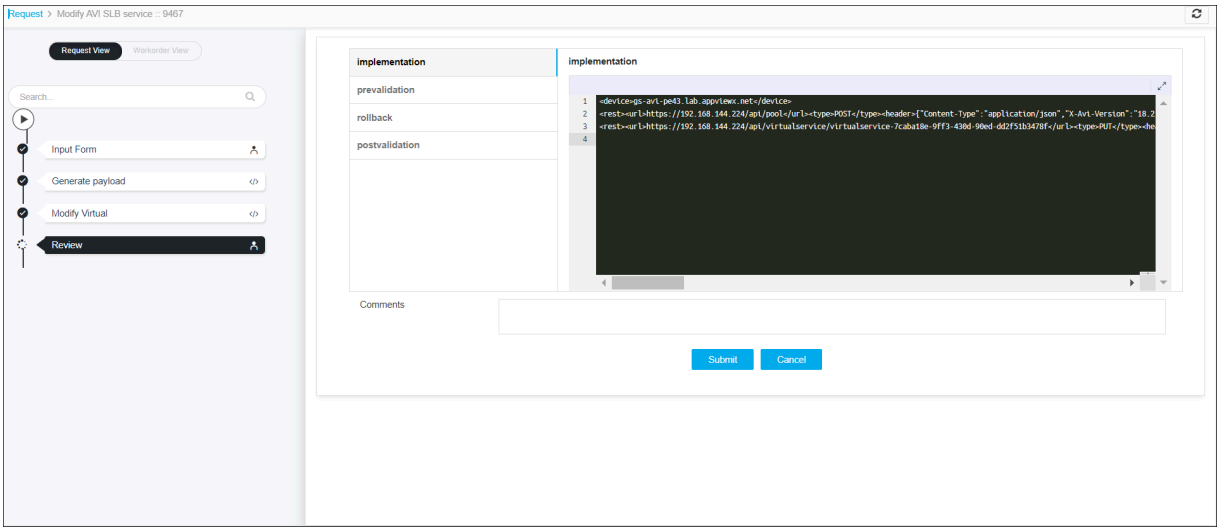
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- If you want to save this form to edit it later, click the **Save Draft** button, and then click **Ok** in the Confirmation popup window. The form will be saved as Open request under **Request** > **My Request**.
- If you want to cancel this form, click the **Cancel** button.

7. Click **Ok** to submit the form.
   The validation starts automatically and reaches the Review stage.

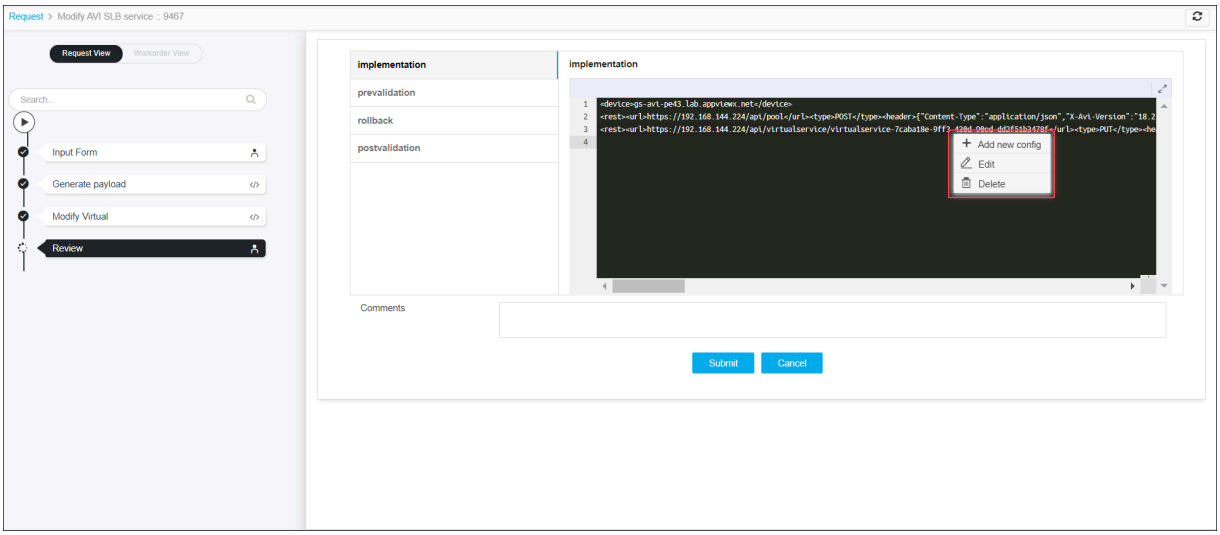
Note:
- If there is any failure at this stage, start a new request by providing the correct data.
- Alternatively, select the failed request and clone it. Update the correct input data in the form input, and submit the workflow again.

8. Review the input data under the implementation, rollback, and postvalidation tabs:



9. (Optional) If you need to update any data at this stage, you can do so by clicking the right-side of the mouse on the data and selecting the desired option.

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10. After the review, click the **Submit** button.

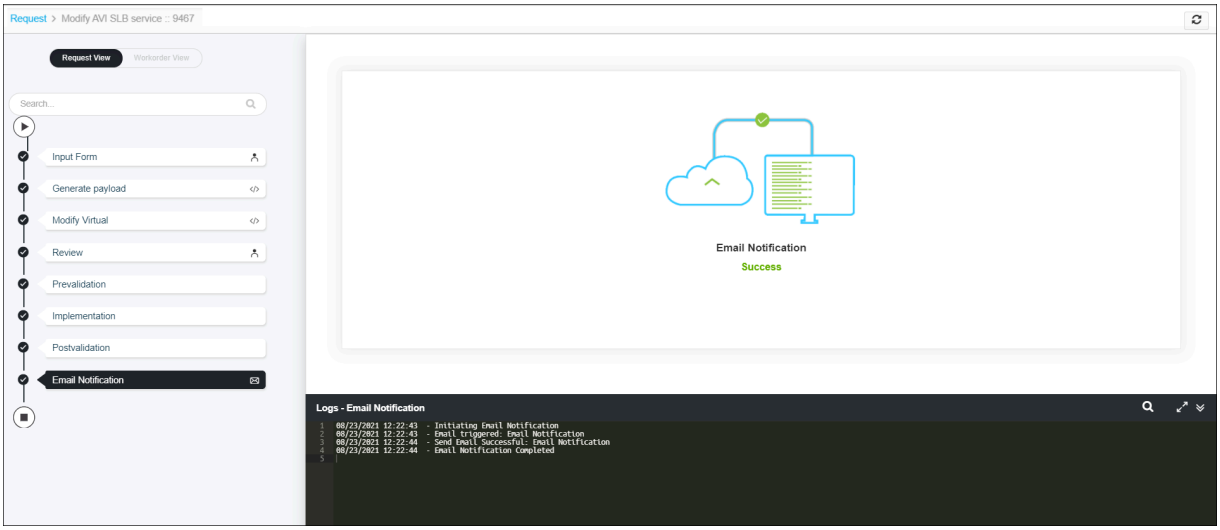
    The Confirmation popup opens.

> **Note:** To stop running the workflow creation, click **Cancel**.

11. Click **Ok** to continue the workflow creation.

    It takes a while to complete the request.

12. The workflow is created and the email is triggered to the configured email IDs.



> **Note:** The stages of the request are shown in the left-side of the screen. To view a particular stage of the request, click the respective stage.

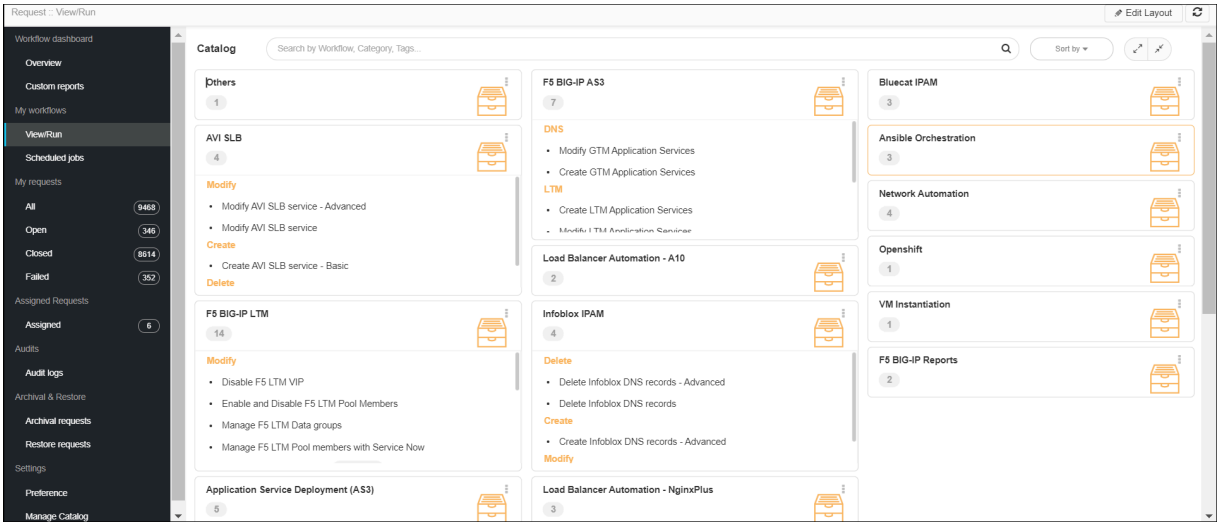
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Modify AVI SLB service – Advanced

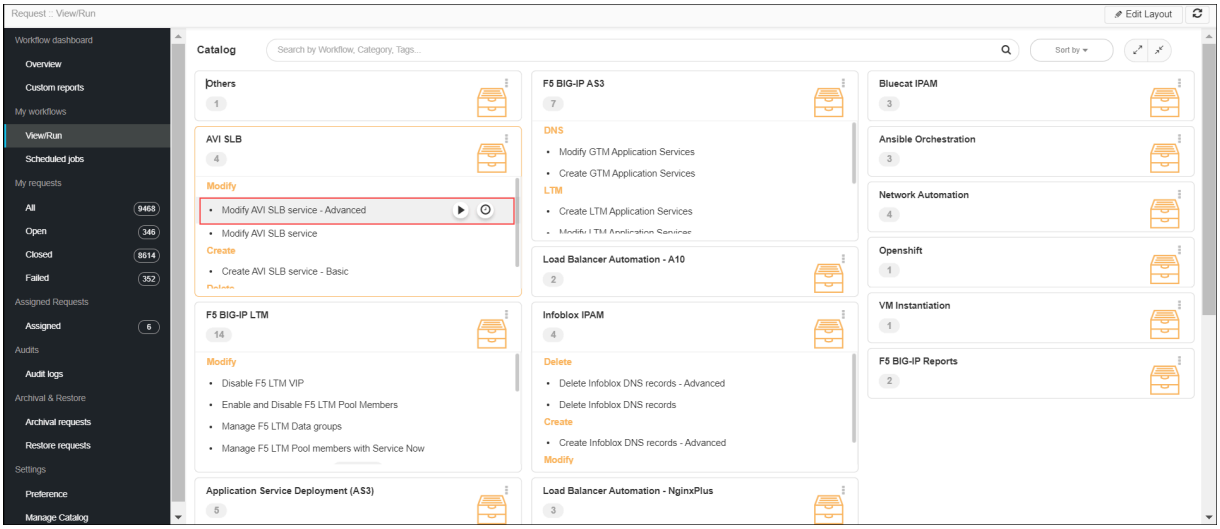
By running this workflow, you can create a virtual service on an AVI device. You can modify advanced parameters (like SNAT IP, host name translation, etc.), objects (like application profile, network profile, WAF policy, etc.), and/or pools attached to a virtual service.

To run this workflow,

1. Go to ☰ **Menu** > **Request** > **View/Run**.
   The Workflow Catalog page appears.



2. In the Workflow Catalog page, hover over the **Modify AVI SLB service – Advanced** workflow.

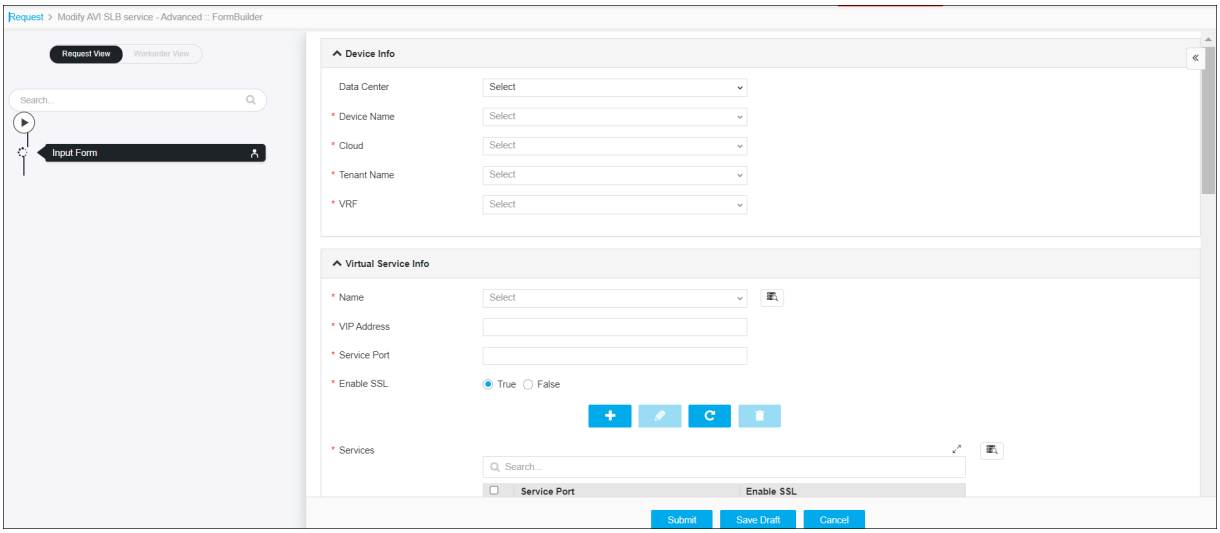


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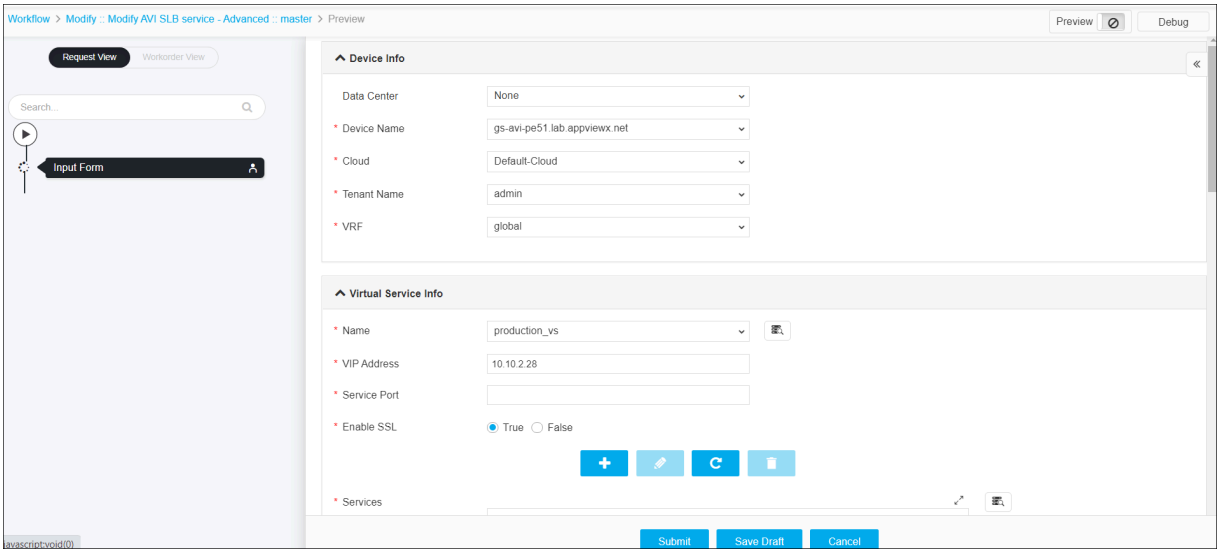
The Run and Schedule buttons are shown.

3. Click the Run  button.

   The Form Input page opens:



4. Enter or select the field information in the **Device Info** section of Form Input and retrieve virtual service details for the device.



5. Modify the necessary details of a virtual service and pool details for a device.
6. Click the **Submit** button.

   The Confirmation popup opens.

Note:

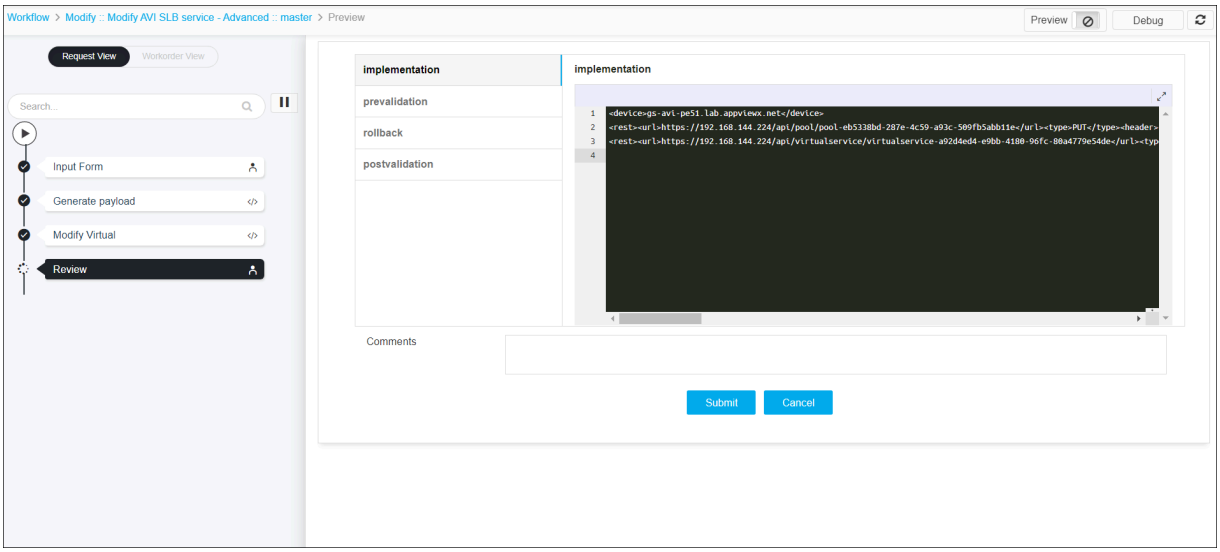
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- If you want to save this form to edit it later, click the **Save Draft** button, and then click **Ok** in the Confirmation popup window. The form will be saved as Open request under **Request** > **My Request**.
- If you want to cancel this form, click the **Cancel** button.

7. Click **Ok** to submit the form.
   The validation starts automatically and reaches the Review stage.

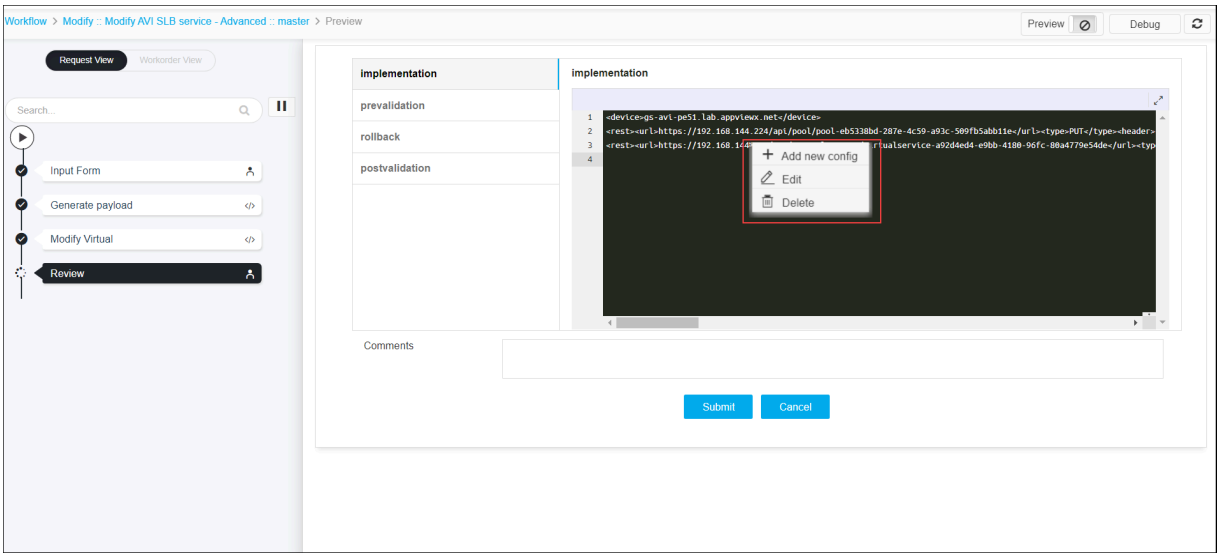
Note:
- If there is any failure at this stage, start a new request by providing the correct data.
- Alternatively, select the failed request and clone it. Update the correct input data in the form input, and submit the workflow again.

8. Review the input data under the **implementation**, **rollback**, and **postvalidation** tabs:



9. (Optional) If you need to update any data at this stage, you can do so by clicking the right-side of the mouse on the data and selecting the desired option.

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10. After the review, click the **Submit** button.

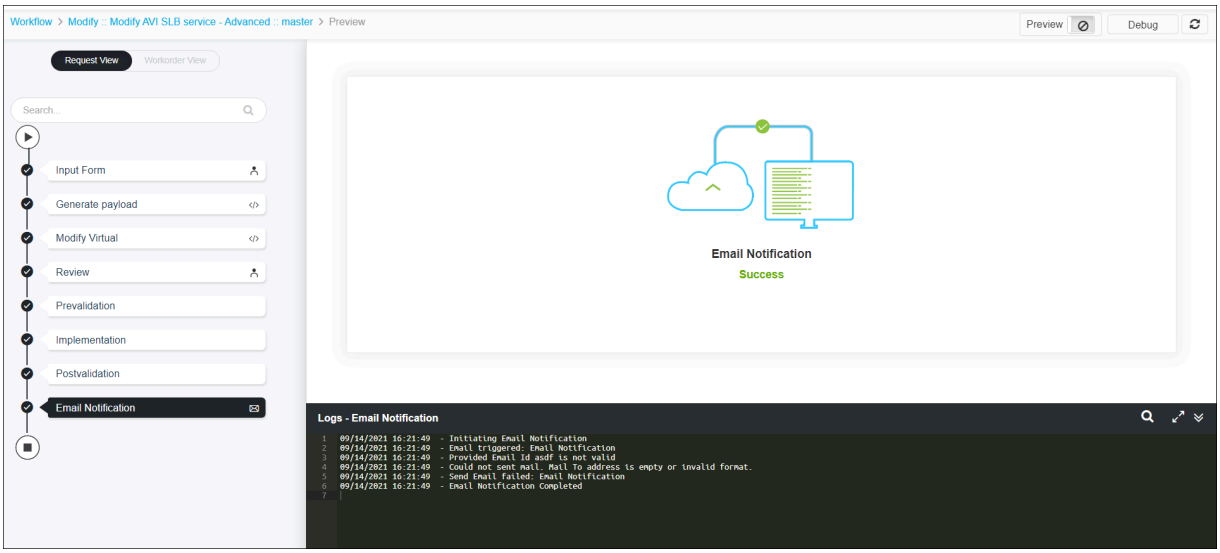
    The Confirmation popup opens.

> **Note:** To stop running the workflow creation, click **Cancel**.

11. Click **Ok** to continue the workflow creation.

    It takes a while to complete the request.

12. The workflow is created and the email is triggered to the configured email IDs.



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Note: The stages of the request are shown in the left-side of the screen. To view a particular stage of the request, click the respective stage.

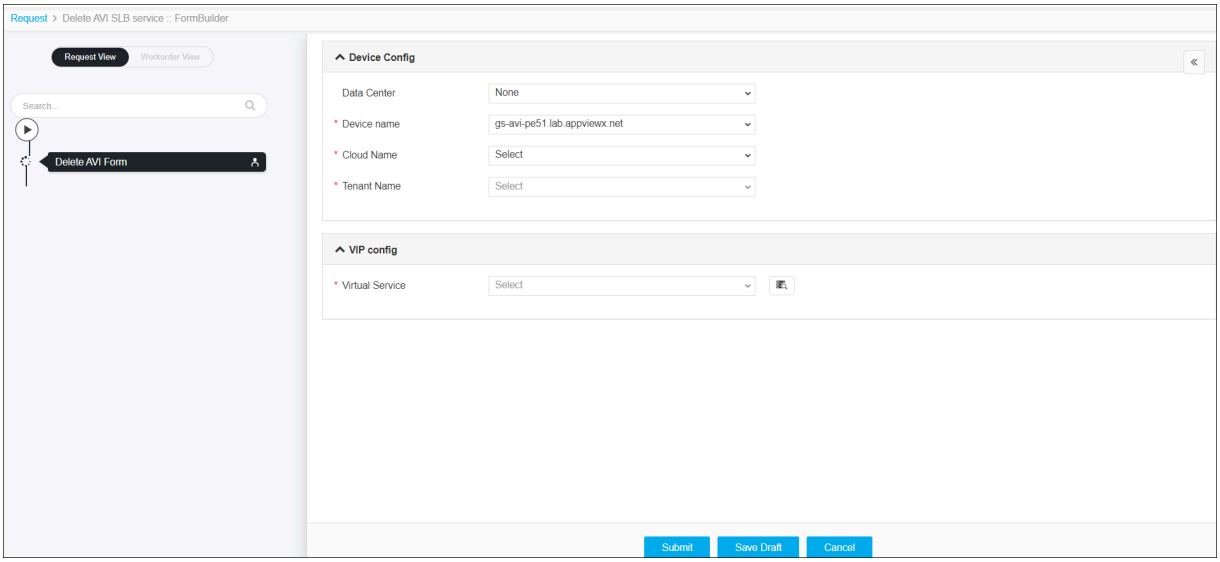
Delete AVI SLB service

By running this workflow, you can delete a virtual service from AVI device by fetching all virtual services based on device, cloud, and tenant name.

Warning: This workflow deletes attached objects like pool, application profile, network profile, etc.

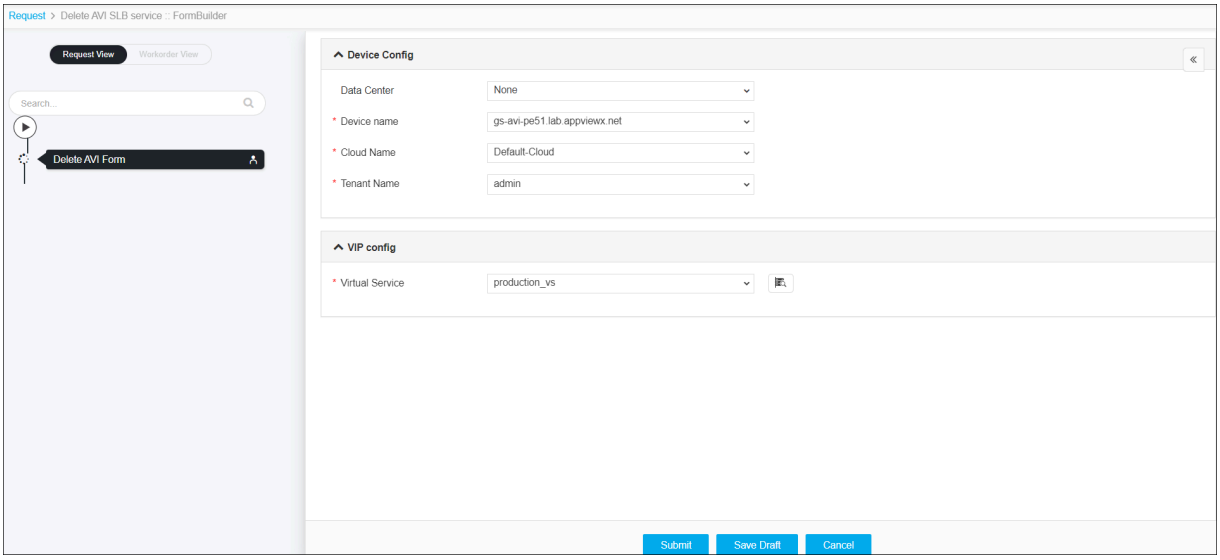
To delete Infoblox DNS records,

1. Go to **Menu** > **Request** > **View/Run**.
   The Workflow Catalog page appears.
2. In the Workflow Catalog page, hover over the Delete AVI SLB service workflow.
   The Run and Schedule buttons are shown.
3. Click the Run button.
   The Form Input page opens:



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4. Provide the SLB service details are to be deleted.



5. Click the **Submit** button.

   The Confirmation popup opens.

> **Note:**
> - If you want to save this form to edit it later, click the **Save Draft** button, and then click **Ok** in the Confirmation popup window. The form will be saved as Open request under **Request** > **My Request**.
> - If you want to cancel this form, click the **Cancel** button.

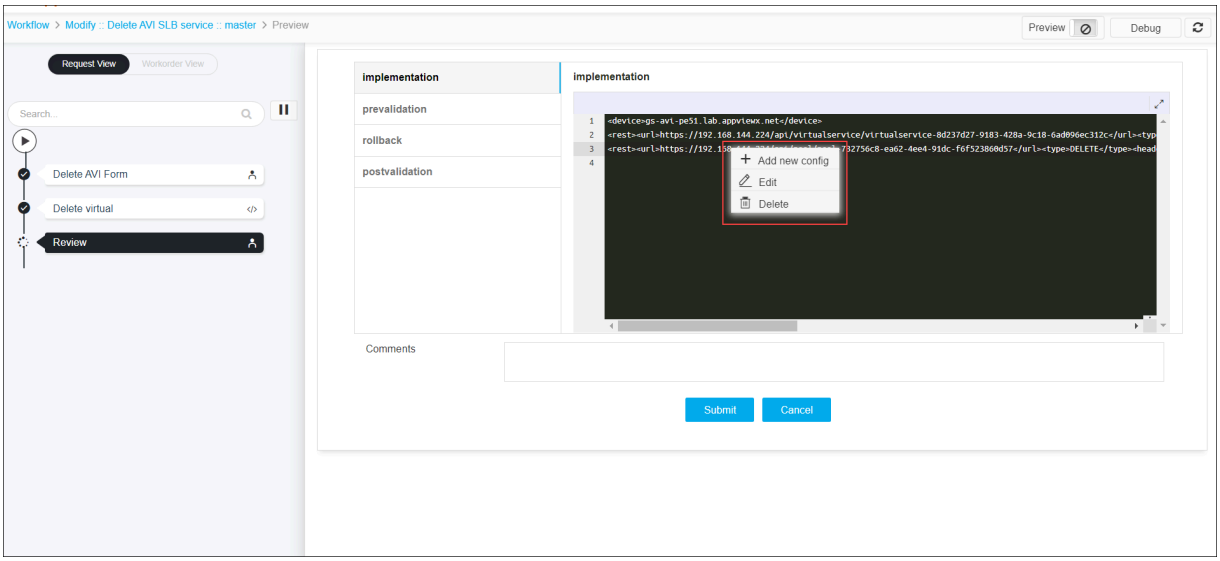
6. Click **Ok** to submit the form.

   The validation starts automatically, and reaches the Review stage.

> **Note:**
> - If there is any failure at this stage, start a new request by providing the correct data.
> - Alternatively, select the failed request and clone it. Update the correct input data in the form input, and submit the workflow again.

7. Review the input data under the **implementation**, **rollback**, and **postvalidation** tabs:
8. (Optional) If you need to update any data at this stage, you can do so by clicking the right-side of the mouse on the data and selecting the desired option.

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9. After the review, click the **Submit** button.

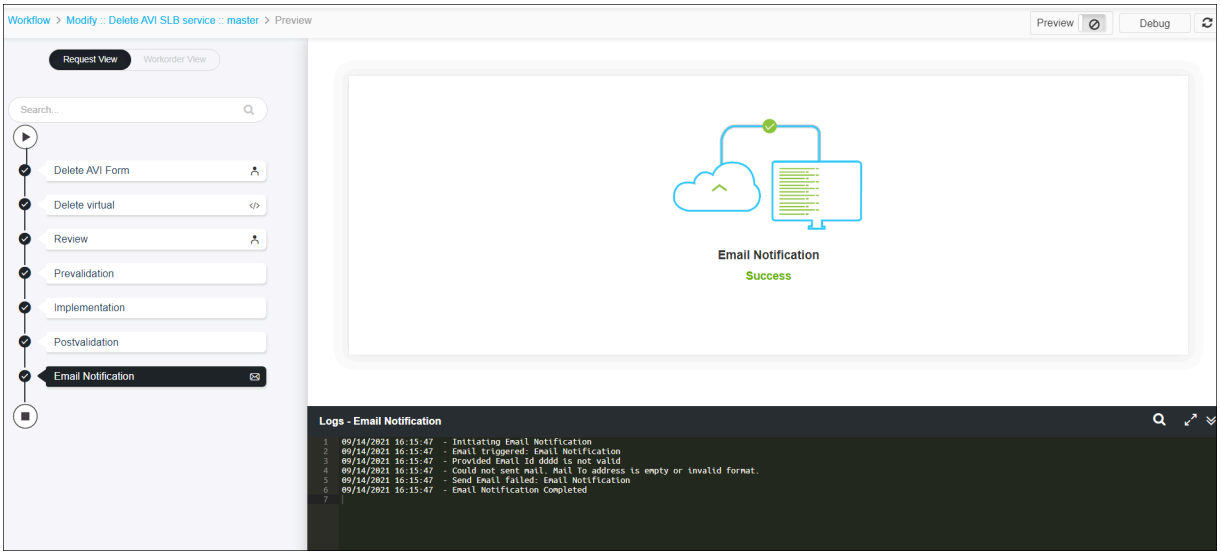
   The Confirmation popup opens.

> **Note:** To stop running the workflow creation, click **Cancel**.

10. Click **Ok** to continue the workflow creation.

    It takes a while to complete the request.

11. The workflow is created and the email is triggered to the configured email IDs.



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Note: The stages of the request are shown in the left-side of the screen. To view a particular stage of the request, click the respective stage.

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Chapter 7: AVI GSLB

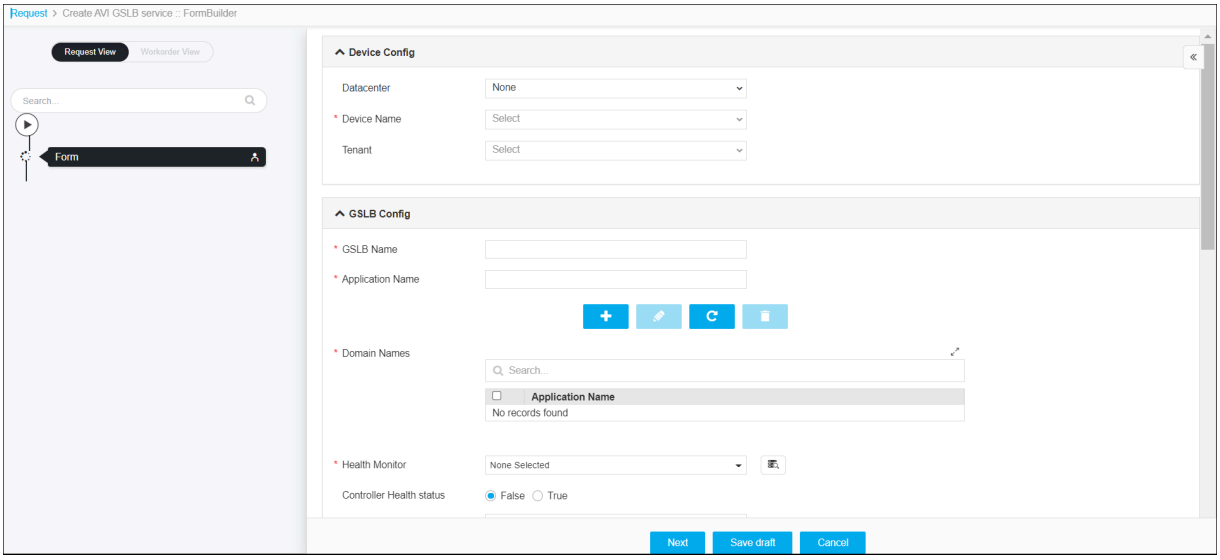
- Create AVI GSLB service
- Modify AVI GSLB service
- Delete AVI GSLB service

Create AVI GSLB service

By running this workflow, you can create a GSLB service in AVI devices. Provide the Domain names according to the subdomains configured on the device, Health Monitors, and application persistence profiles for the GSLB service. The pool members can either be an IP or existing virtual service.

To run this workflow,

1. Go to Menu > Request > View/Run.
   The Workflow Catalog page appears.
2. In the Workflow Catalog page, hover over the Create AVI GSLB service workflow.
   The Run and Schedule buttons are shown.
3. Click the Run button.
   The Form Input page opens:



4. Enter or select the field information in the **Device Config** section of Form Input.

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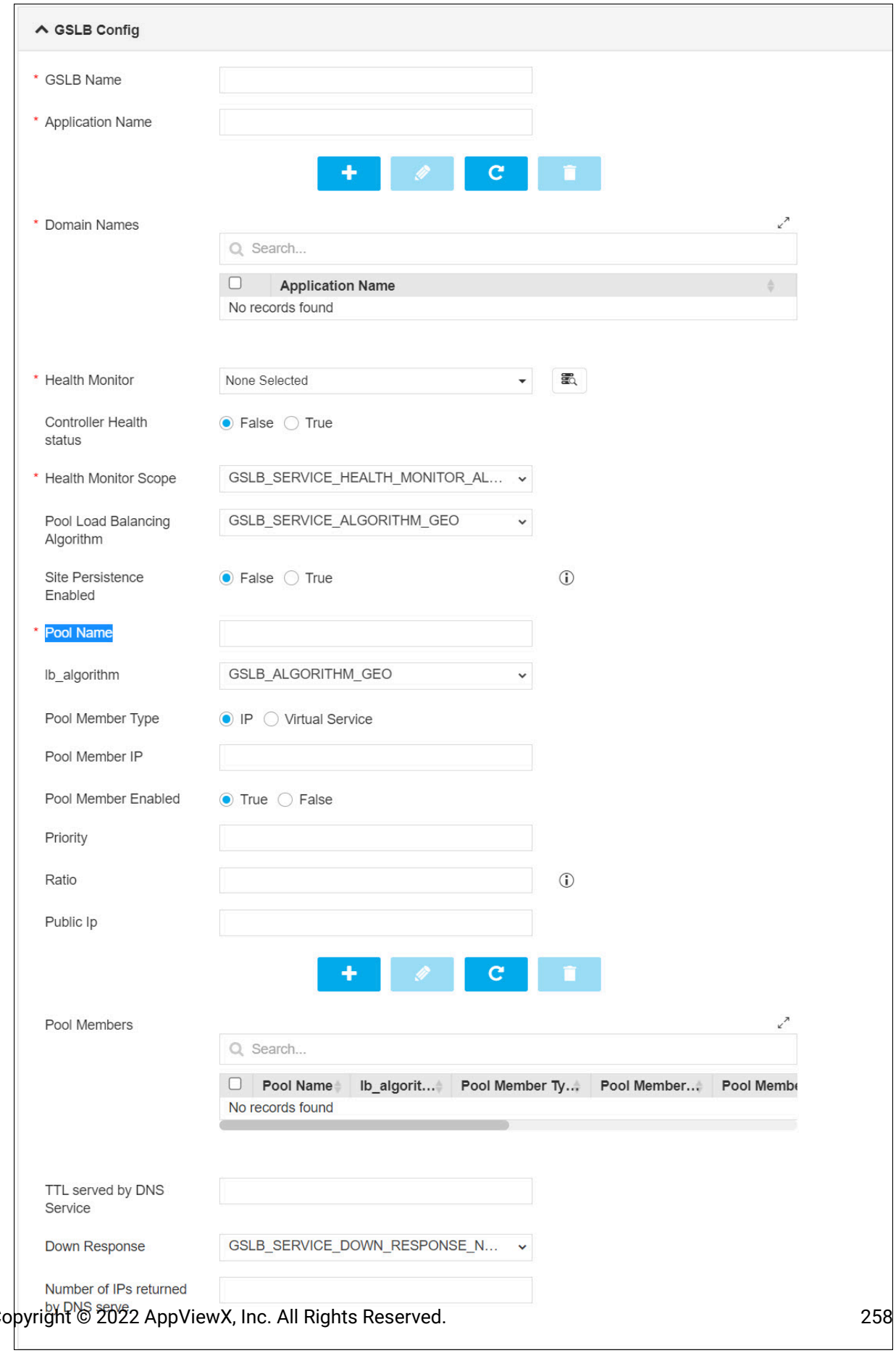


5. The following table provides the field description for the **Device Config** section of Form Input:

Field	Description
Datacenter	Displays the list of datacenters of the devices, which are created in the Device Inventory. Select the datacenter of a device from the drop-down option for which this request is to be created. For the devices, which are created without a datacenter in the Device Inventory, select the datacenter as **None**.
*Device Name	Displays the list of devices associated with the selected datacenter. If the datacenter is selected as **None**, the devices that are created without datacenter details are listed. Select the desired device from the drop-down option.
Tenant	A tenant is an isolated instance of Avi Vantage. Each Avi Vantage user account is associated with one or more tenants. The tenant associated with a user account defines the resources that users can access within Avi Vantage. When a user logs in, Avi Vantage restricts their access to only those resources that are in the same tenant. Select a tenant from the drop-down list.

6. Enter or select the field information in the **GSLB Config** section of Form Input.

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7. The following table provides the field description for the **GSLB Config** section of Form Input:

Field	Description
*GSLB Name	Enter GSLB name.
*Application Name	Enter the name of the application associated with the object.
*Domain Names	Make use of the following buttons to add and manage application name. 
*Health Monitor	An association between a health or performance monitor and an entire pool, rather than with individual pool members. This eases the task of configuring health and performance monitoring for multiple web servers. To get the list of health monitors, click the Retrieve  button, and then select the objects from the drop-down option.
Controller Health status	Select the health status. The possible values are: • False (default) • True - enables you to verify the proper operation of your system and ensure your hardware and software function at peak efficiency.
*Health Monitor Scope	Select the health monitor scope from the drop-down list.
Pool Load Balancing Algorithm	Select the pool load balancing algorithm from the drop-down list.
Site Persistence Enabled	Click the True radio button to enable site persistence and when a local DNS makes repetitive requests on behalf of a client, the system reconnects the client to the same resource as previous requests.
*Pool Name	Enter the pool name.
lb_algorithm	Select the lb_algorithm from the drop-down list.

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Field	Description
Pool Member Type	Select the virtual configuration type. The possible values are: • IP • Virtual Service
Pool Member IP	Enter the IP address or virtual service. Based on the selection that is made in the **Type** field, enter the IP address or retrieve and select a virtual service from the drop-down list.
Pool Member Enabled	By default, the pool member is enabled. To disable the pool member, click the **True** radio button.
Priority	To specify a priority, you must activate priority group usage when you create a new pool or when adding or removing pool members. When activated, the system load balances traffic according to the priority group number assigned to the pool member.
Ratio	The system selects a pool based on the ratio that you assign to the pool. Enter the ratio of the pool.
Public Ip	Enter the public IP address.
Pool Members	The pool members can be added or managed by using the following buttons: 
TTL served by DNS Service	Specify TTL (time to live) settings for Infoblox host records and resource records. TTL is the time that a name server is allowed to cache data. After the TTL expires, the name server is required to update the data.
Down Response	Select the down response from the drop-down.
Number of IPs returned by DNS serve	Enter the number of IPs that are returned by the DNS service.

8. Click the **Submit** button.

Note:

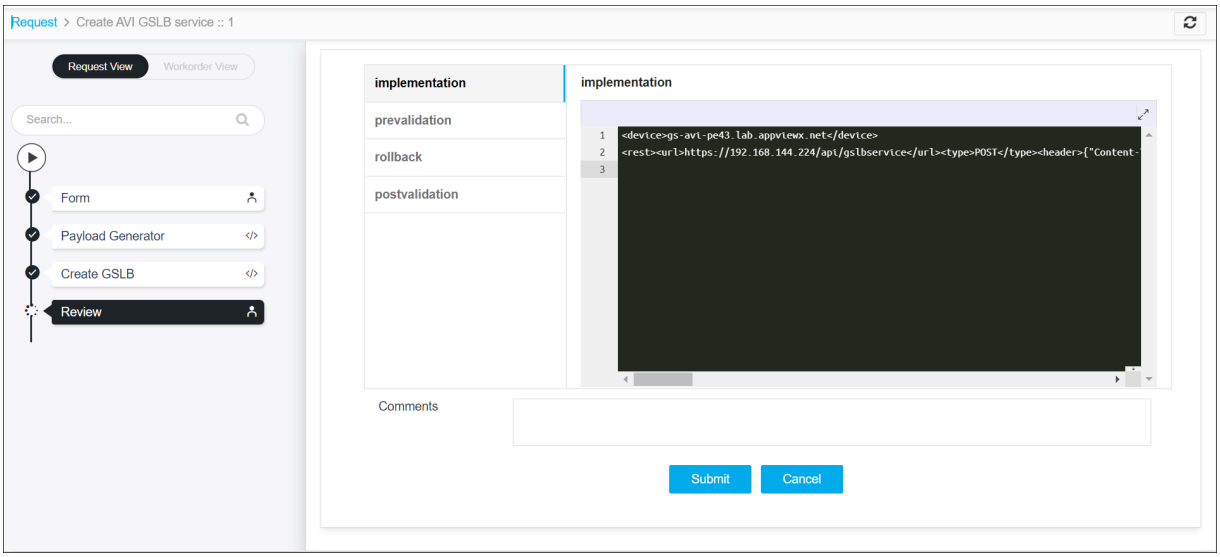
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- If you want to save this form to edit it later, click the **Save Draft** button, and then click **Ok** in the Confirmation popup window. The form will be saved as Open request under **Request** > **My Request**.
- If you want to cancel this form, click the **Cancel** button.

9. Click **Ok** to submit the form.
   The validation starts automatically and reaches the Review stage.

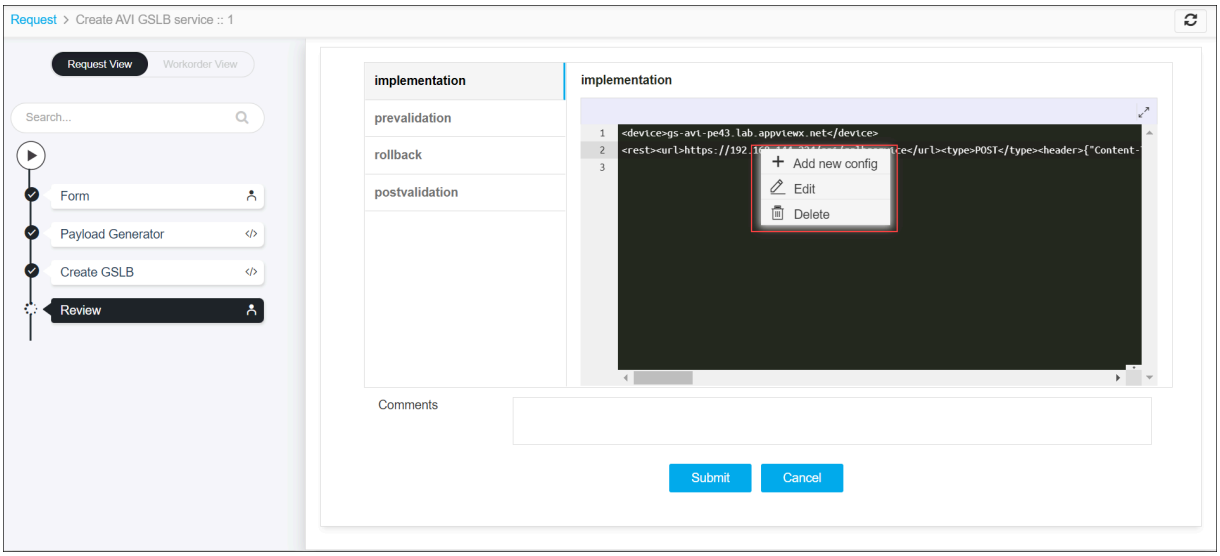
Note:
- If there is any failure at this stage, start a new request by providing the correct data.
- Alternatively, select the failed request and clone it. Update the correct input data in the form input, and submit the workflow again.

10. Review the input data under the **implementation**, **rollback**, and **postvalidation** tabs:



11. (Optional) If you need to update any data at this stage, you can do so by clicking the right-side of the mouse on the data and selecting the desired option.

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12. After the review, click the **Submit** button.
    The Confirmation popup opens.

> **Note:** To stop running the workflow creation, click **Cancel**.

13. Click **Ok** to continue the workflow creation.
    It takes a while to complete the request.
14. The workflow is created and the email is triggered to the configured email IDs.

> **Note:** The stages of the request are shown in the left-side of the screen. To view a particular stage of the request, click the respective stage.

Modify AVI GSLB service

By running this workflow, you can modify a GSLB service on AVI device. In modifying flow, it lists available domains under GSLB service and you can add or modify domains. The pool members can also be modified.

To run this workflow,

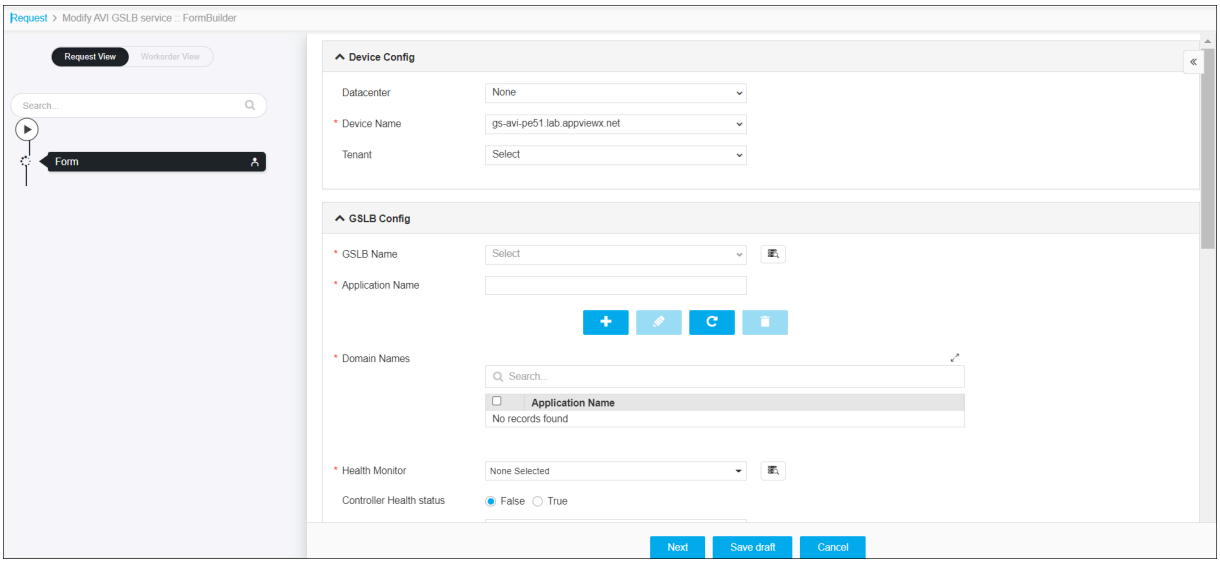
1. Go to ☰ **Menu** > **Request** > **View/Run**.
   The Workflow Catalog page appears.
2. In the Workflow Catalog page, hover over the **Modify AVI GSLB service** workflow.

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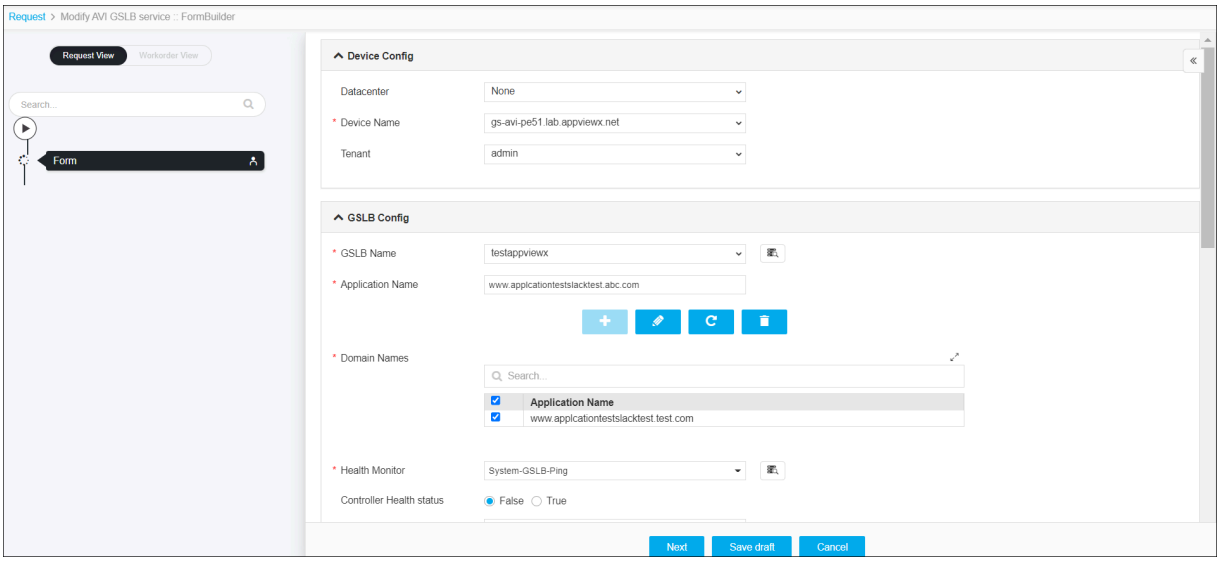
The Run and Schedule buttons are shown.

3. Click the Run  button.

   The Form Input page opens:



4. Provide the device information and fetch the details of a GSLB configuration.



5. Modify the necessary details of GSLB service.
6. Click the **Next** button.

Note:

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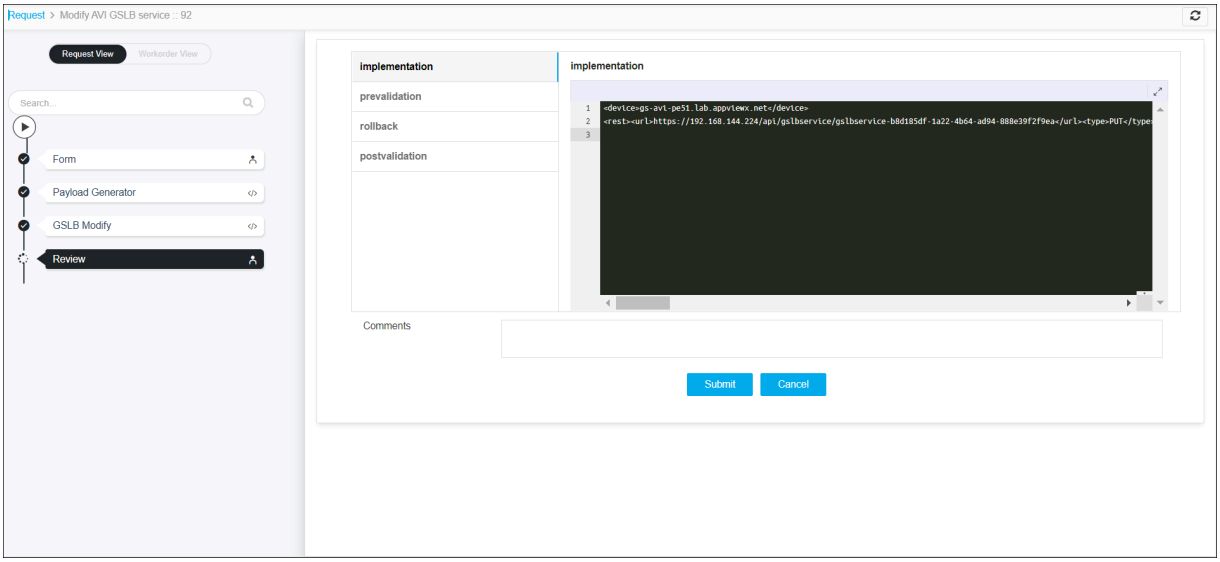
- If you want to save this form to edit it later, click the **Save Draft** button, and then click **Ok** in the Confirmation popup window. The form will be saved as Open request under **Request** > **My Request**.
- If you want to cancel this form, click the **Cancel** button. The form will be saved as Cancelled request under **Request** > **My Request**.

7. Click **Ok** to submit the form.
   The validation starts automatically and reaches the Review stage.

Note:

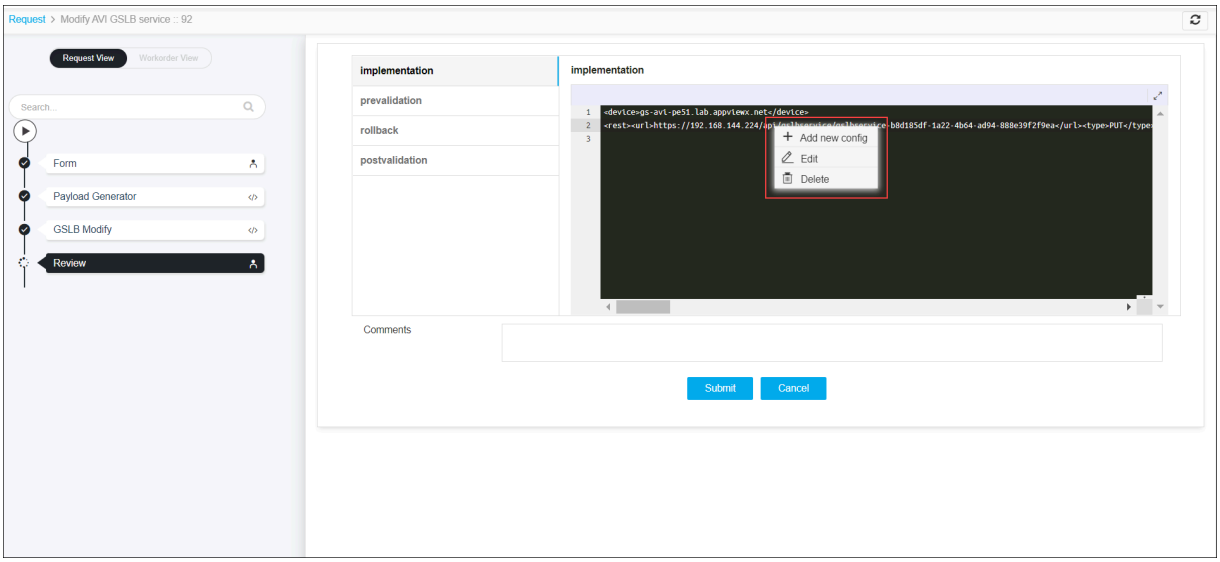
- If there is any failure at this stage, start a new request by providing the correct data.
- Alternatively, select the failed request and clone it. Update the correct input data in the form input, and submit the workflow again.

8. Review the input data under the **implementation**, **rollback**, and **postvalidation** tabs:



9. (Optional) If you need to update any data at this stage, you can do so by clicking the right-side of the mouse on the data and selecting the desired option.

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10. After the review, click the **Submit** button.

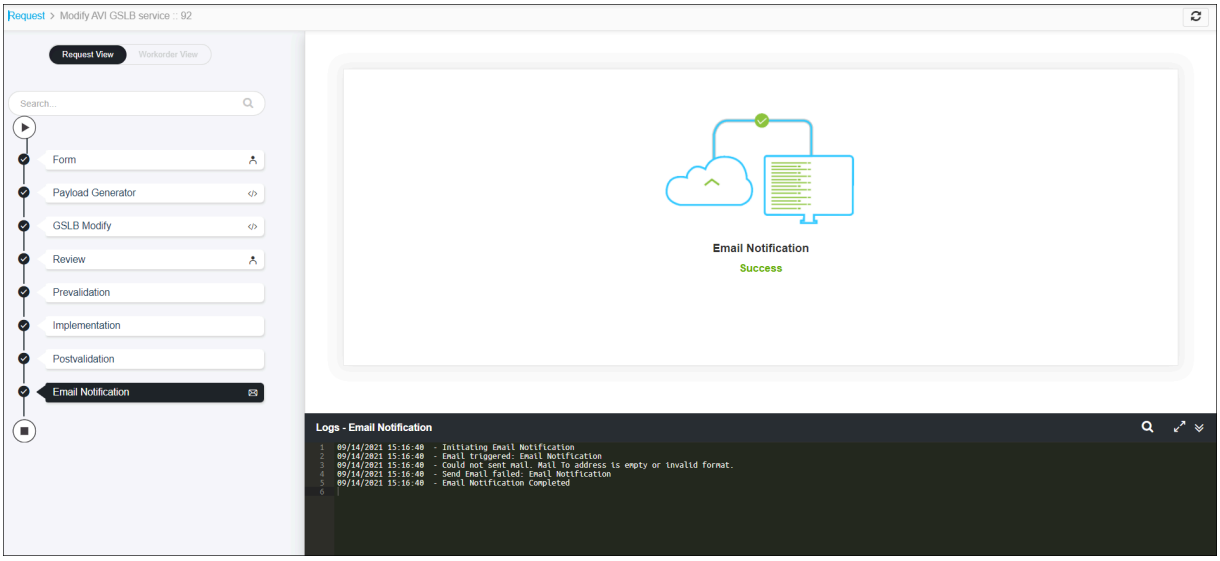
    The Confirmation popup opens.

> **Note:** To stop running the workflow creation, click **Cancel**.

11. Click **Ok** to continue the workflow creation.

    It takes a while to complete the request.

12. The workflow is created and the email is triggered to the configured email IDs.



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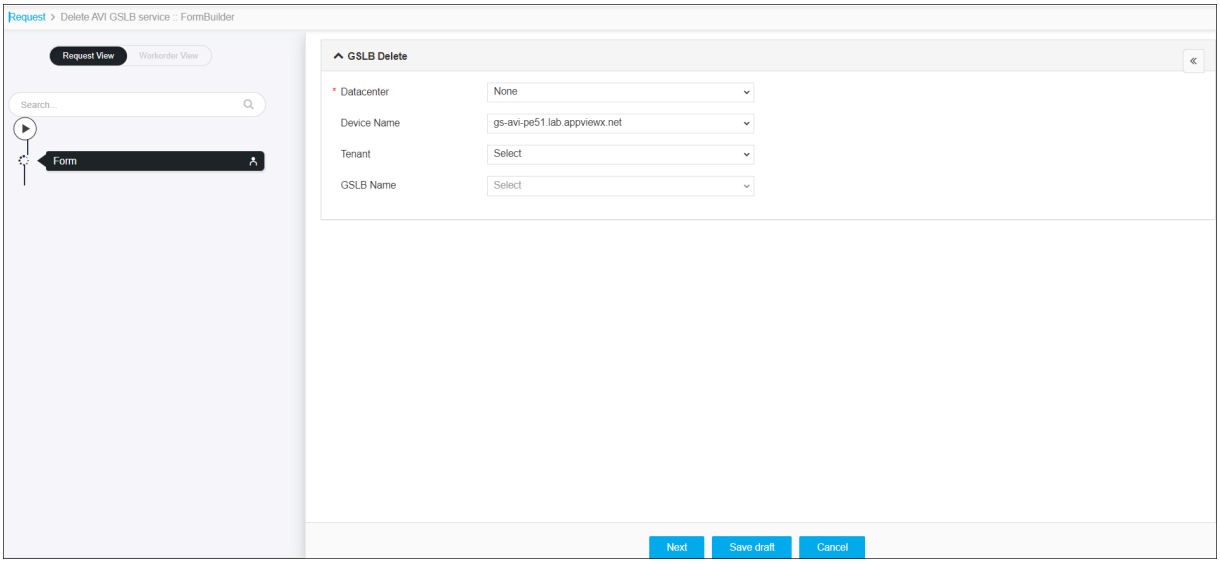
Note: The stages of the request are shown in the left-side of the screen. To view a particular stage of the request, click the respective stage.

Delete AVI GSLB service

By running this workflow, you can delete a GSLB service from AVI device by fetching all the GSLB service from the device based on tenant name. You can delete any GSLB service from the list.

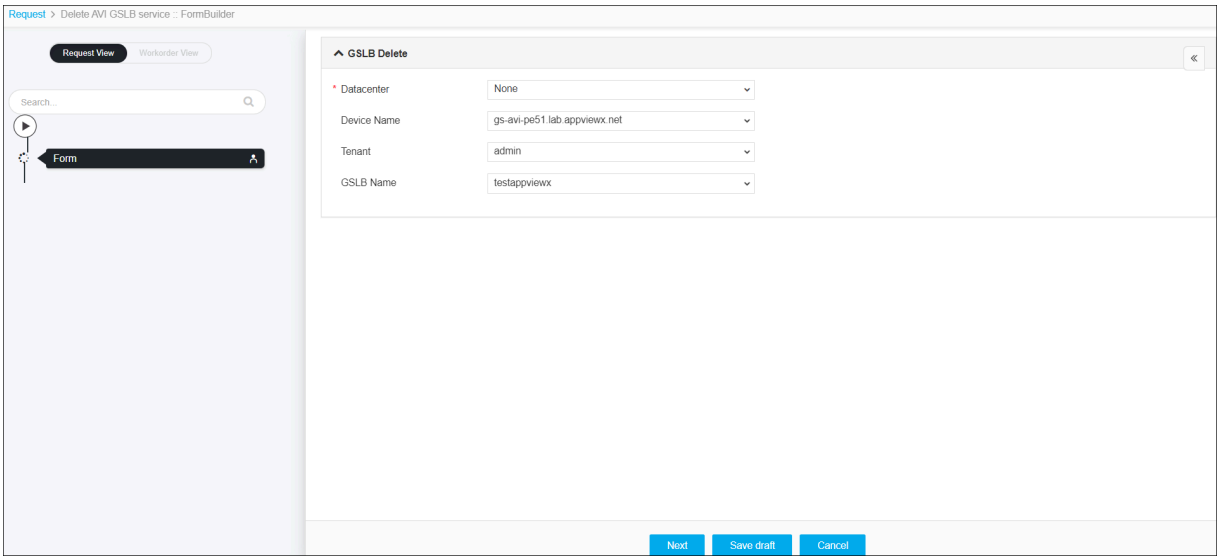
To delete AVI GSLB service,

1. Go to **Menu** > **Request** > **View/Run**.
   The Workflow Catalog page appears.
2. In the Workflow Catalog page, hover over the **Delete AVI GSLB service** workflow.
   The Run and Schedule buttons showed.
3. Click the Run button.
   The Form Input page opens:



4. Provide the GSLB device details that are to be deleted.

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5. Click the **Next** button.

> **Note:**
> - If you want to save this form to edit it later, click the **Save Draft** button, and then click **Ok** in the Confirmation popup window. The form will be saved as Open request under **Request** > **My Request**.
> - If you want to cancel this form, click the **Cancel** button.

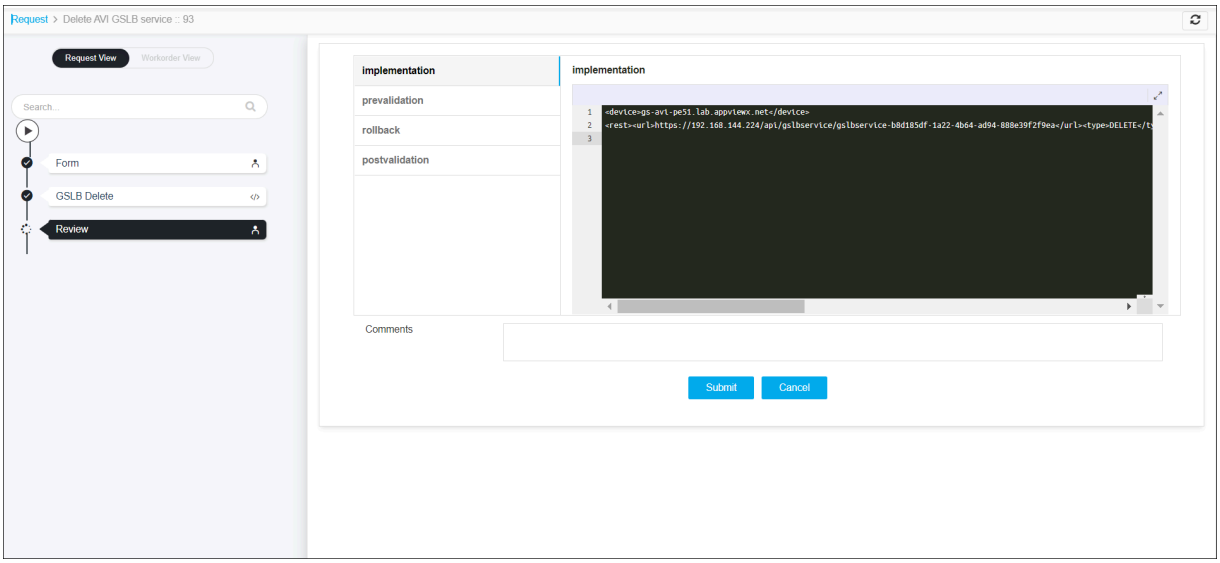
6. Click **Ok** to submit the form.

   The validation starts automatically and reaches the Review stage.

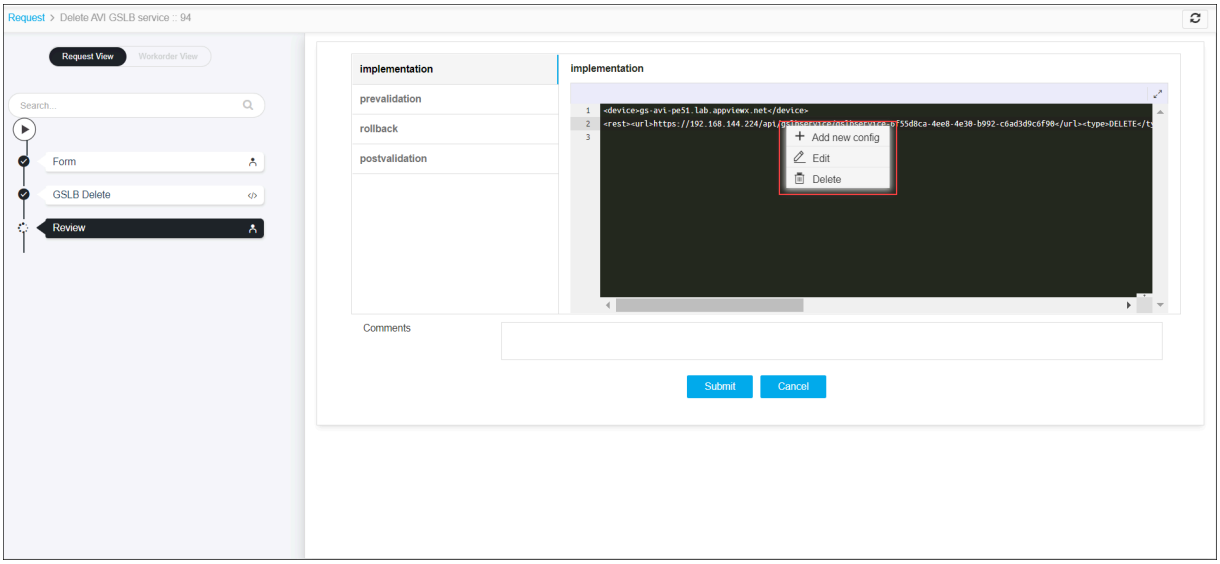
> **Note:**
> - If there is any failure at this stage, start a new request by providing the correct data.
> - Alternatively, select the failed request and clone it. Update the correct input data in the form input, and submit the workflow again.

7. Review the input data under the **implementation**, **rollback**, and **postvalidation** tabs:

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8. (Optional) If you need to update any data at this stage, you can do so by clicking the right-side of the mouse on the data and selecting the desired option.



9. After the review, click the **Submit** button.

   The Confirmation popup opens.

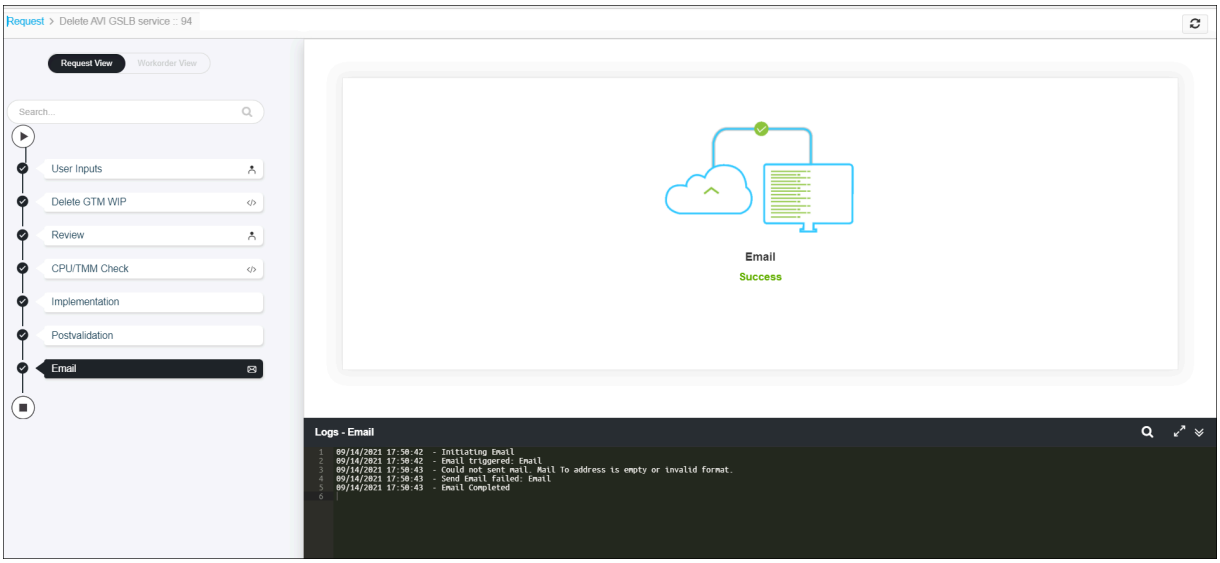
> **Note:** To stop running the workflow creation, click **Cancel**.

10. Click **Ok** to continue the workflow creation.

    It takes a while to complete the request.

11. The workflow is created and the email is triggered to the configured email IDs.

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Note: The stages of the request are shown in the left-side of the screen. To view a particular stage of the request, click the respective stage.

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Chapter 8: Infoblox IPAM

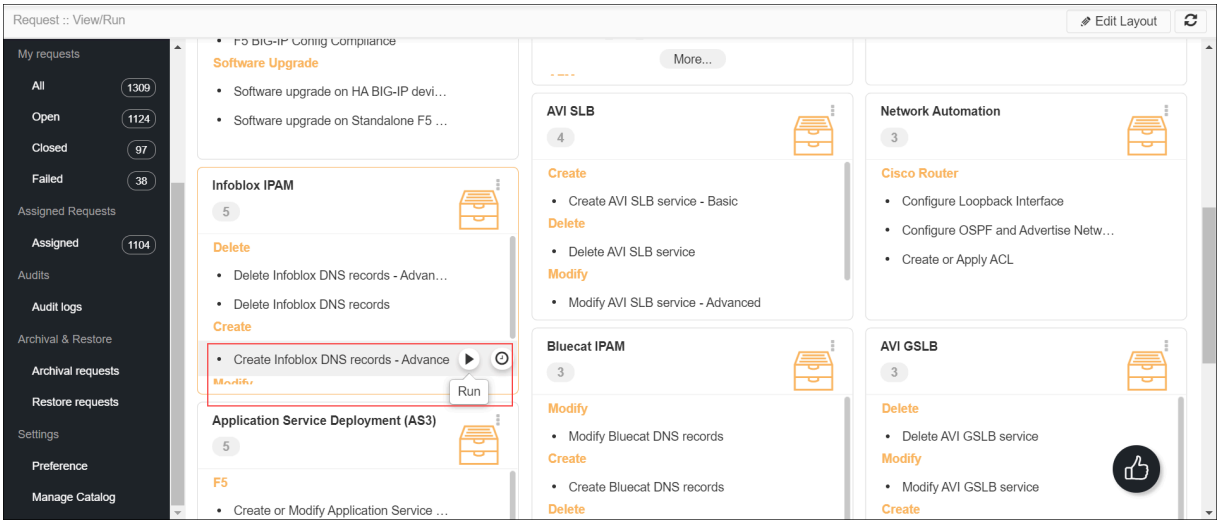
- Create Infoblox DNS Records – Basic
- Modify Infoblox DNS Records - Basic
- Delete Infoblox DNS Records - Basic
- Modify Infoblox DNS Record – Advanced
- Delete Infoblox DNS Records – Advanced

Create Infoblox DNS Records – Basic

This workflow creates records in Infoblox and multiple record types (A, HOST, PTR, CNAME, TXT, MX) using the table. In the case of A, Host, and PTR record creation, IP can be fetched and reserved on the fly.

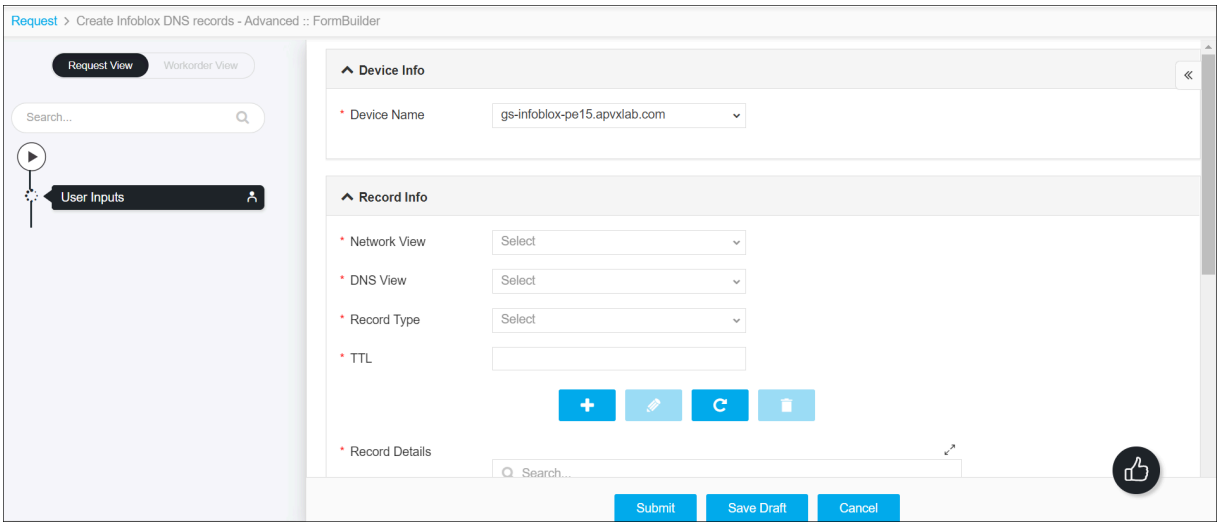
To run this workflow,

1. Go to  **Menu** > **Request** > **View/Run**.
   The Workflow Catalog page appears.
2. In the Workflow Catalog page, hover over the **Create Infoblox DNS records – Advanced** workflow.
   The Run and Schedule buttons are shown.

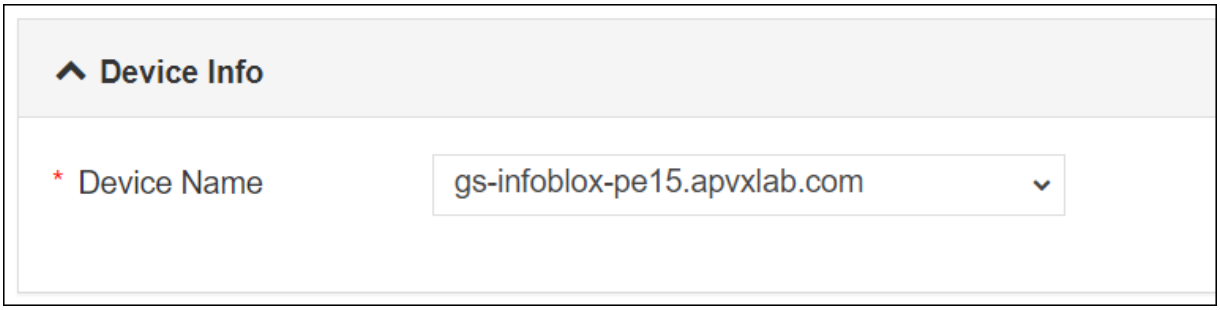


3. Click the Run  button.
   The Form Input page opens:

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4. Enter or select the field information in the **Device Info** section of the Form Input.

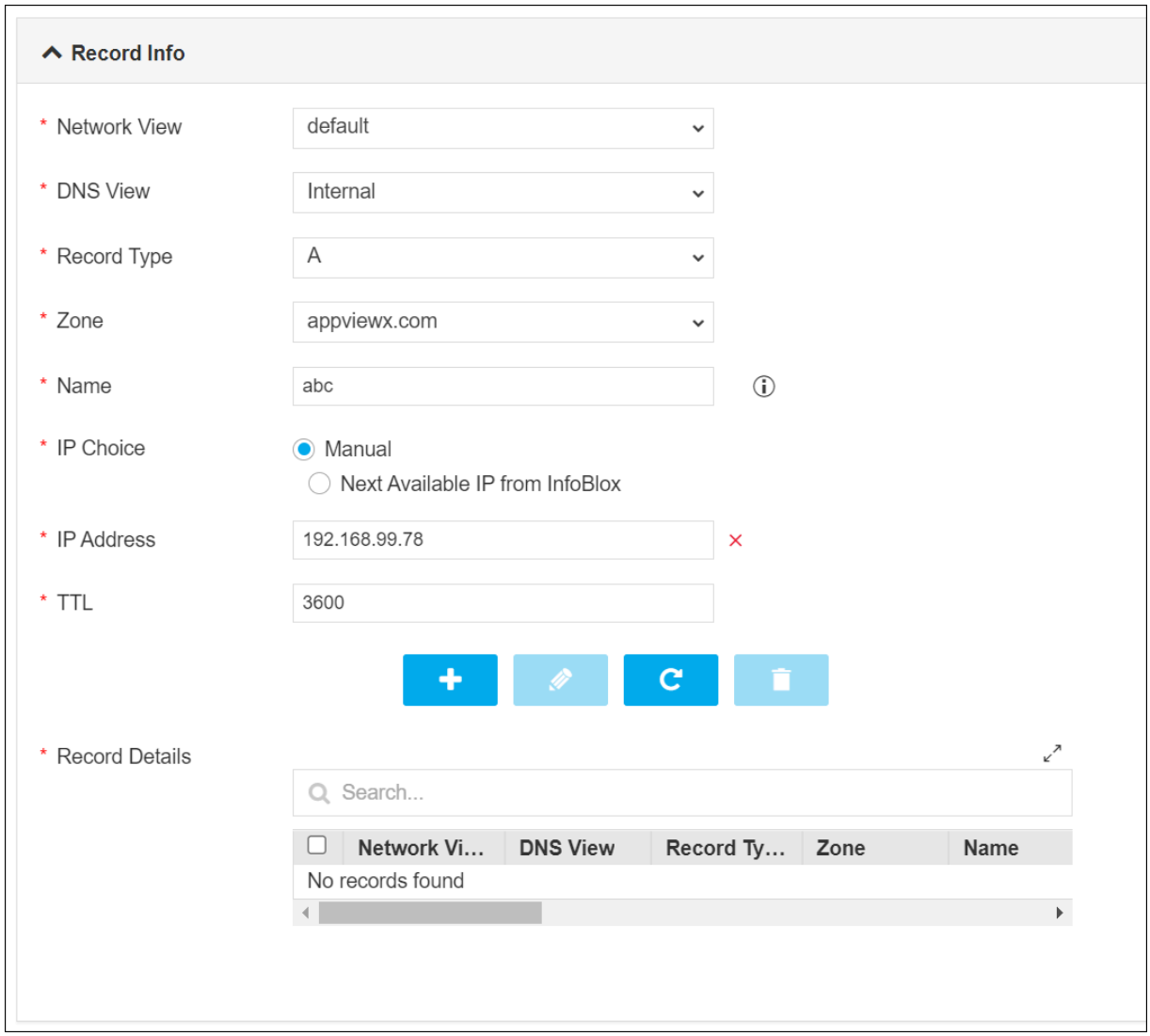


5. The following table provides the field description for the **Device Info** section in the Form Input:

Field	Description
*Device Name	Select the device name from the drop-down list.

6. The following table provides the field description for the **Record Info** section in the Form Input:

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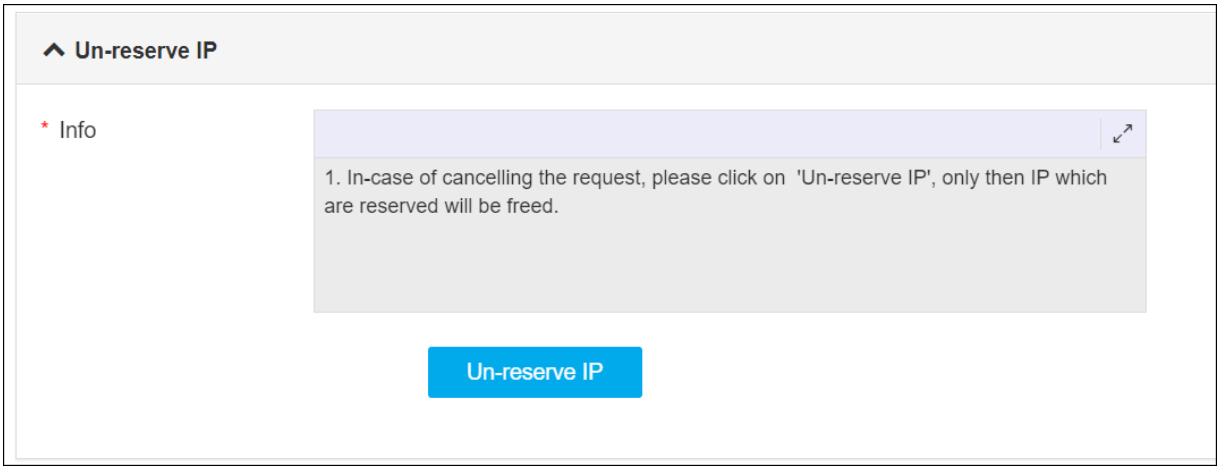
7. The following table provides the field description for the **Record Info** section in the Form Input:

Field	Description
*Network View	Select the network view from the drop-down option.
*DNS View	Select the DNS view from the drop-down option.
*Record Type	Select the record types from the drop-down option. The record types are A, HOST, PTR, CNAME, TXT, MX). In the case of A, Host, and PTR record creation, IP can be fetched and reserved on the fly.

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Field	Description
	The record type A is shown.
*TTL	Specify TTL (time to live) settings for Infoblox host records and resource records. TTL is the time that a name server is allowed to cache data. After the TTL expires, the name server is required to update the data.

8. If you cancel this request, remember to free the reserved IP by clicking the **Un-reserve IP** button.



9. Click the **Submit** button.

   The Confirmation popup opens.

> **Note:**
> - If you want to save this form to edit it later, click the **Save Draft** button, and then click **Ok** in the Confirmation popup window. The form will be saved as Open request under Request > My Request.
> - If you want to cancel this form, click the **Cancel** button.

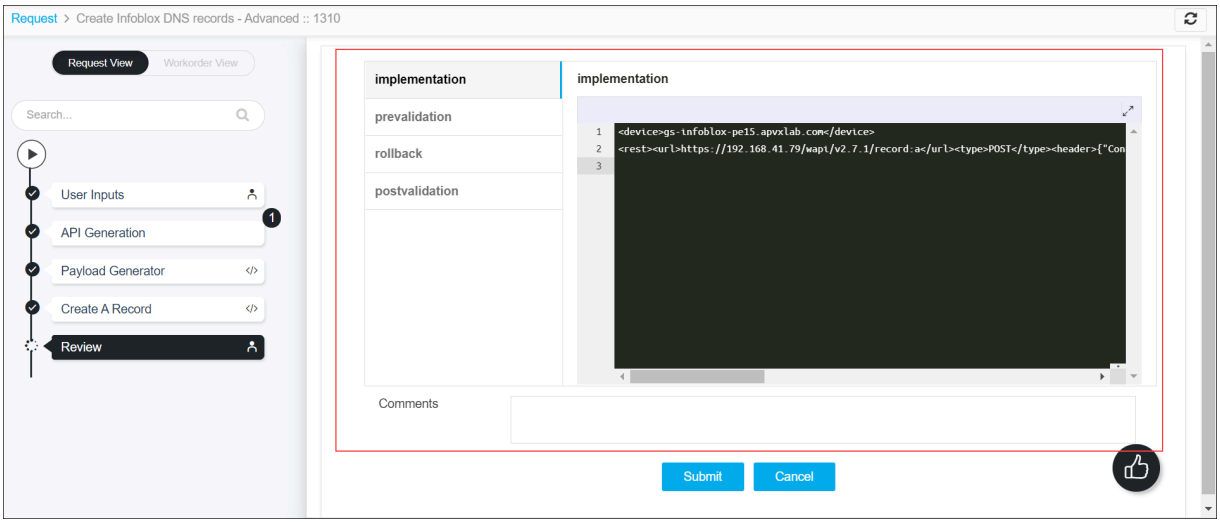
10. Click **Ok** to submit the form.

    The validation starts automatically and reaches the **Review** stage.

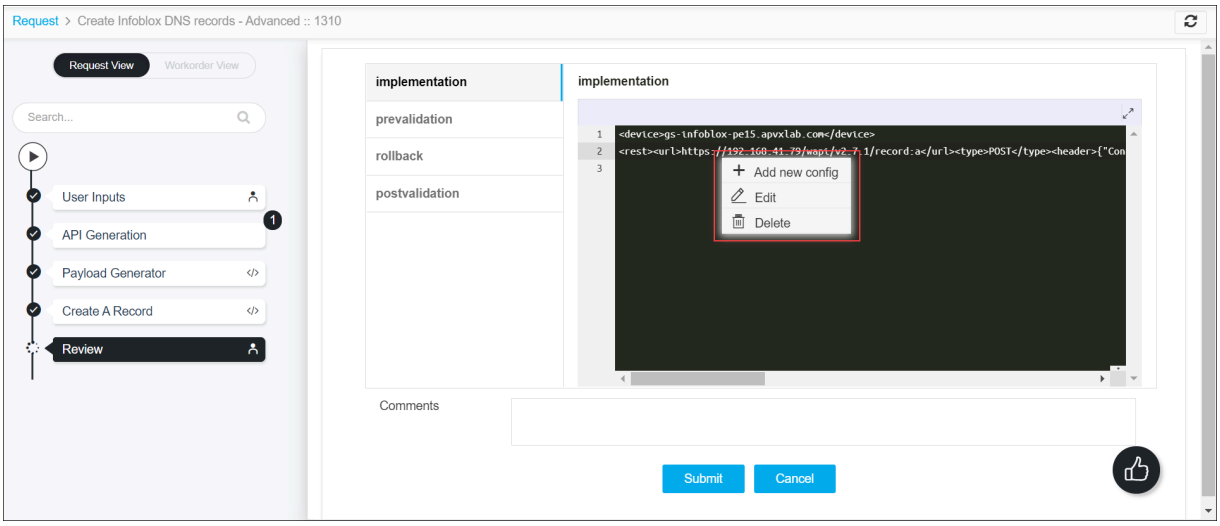
> **Note:**
> - If there is any failure at this stage, start a new request by providing the correct data.
> - Alternatively, select the failed request and clone it. Update the correct input data in the form input, and submit the workflow again.

11. Review the input data under the **implementation**, **rollback**, and **postvalidation** tabs:

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12. (Optional) If you need to update any data at this stage, you can do so by clicking the right side of the mouse on the data and selecting the desired option.

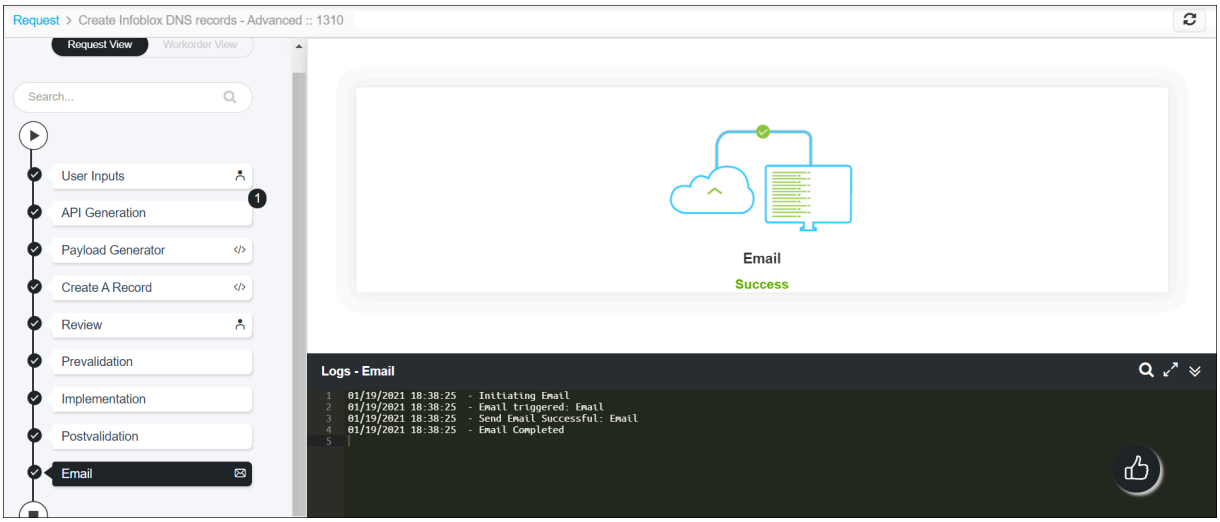


13. After the review, click the **Submit** button.
    The Confirmation popup opens.

> **Note:** To stop running the workflow creation, click **Cancel**.

14. Click **Ok** to continue the workflow creation.
    It takes a while to complete the request.
15. The workflow is created and the email is triggered to the configured email IDs.

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Note: The stages of the request are shown in the left side of the screen. To view a particular stage of the request, click the respective stage.

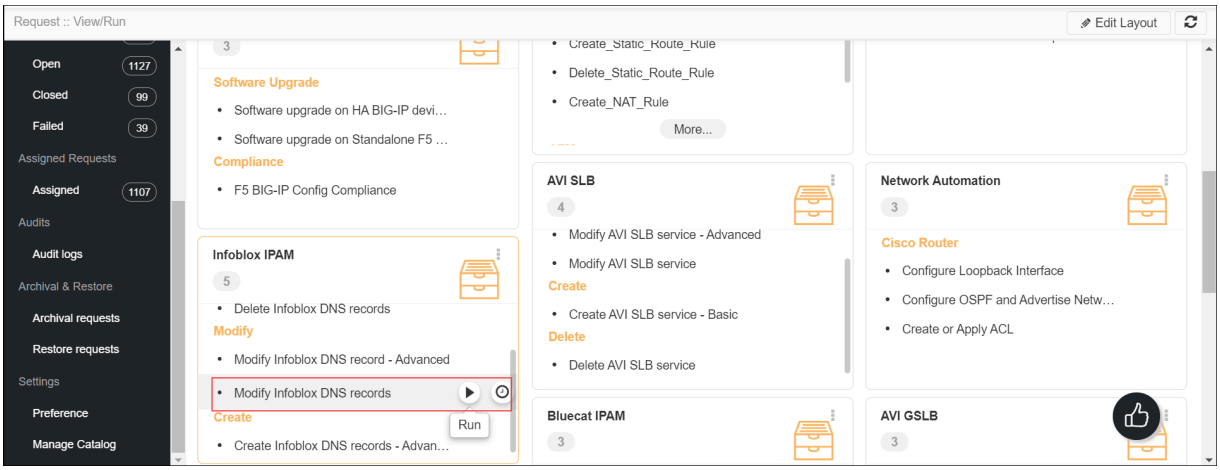
Modify Infoblox DNS Records - Basic

This workflow modifies existing records in Infoblox by fetching the existing records based on App Name. By using this workflow, you can modify multiple (A, HOST, PTR,CNAME,TXT,MX) records using the table.

To run this workflow,

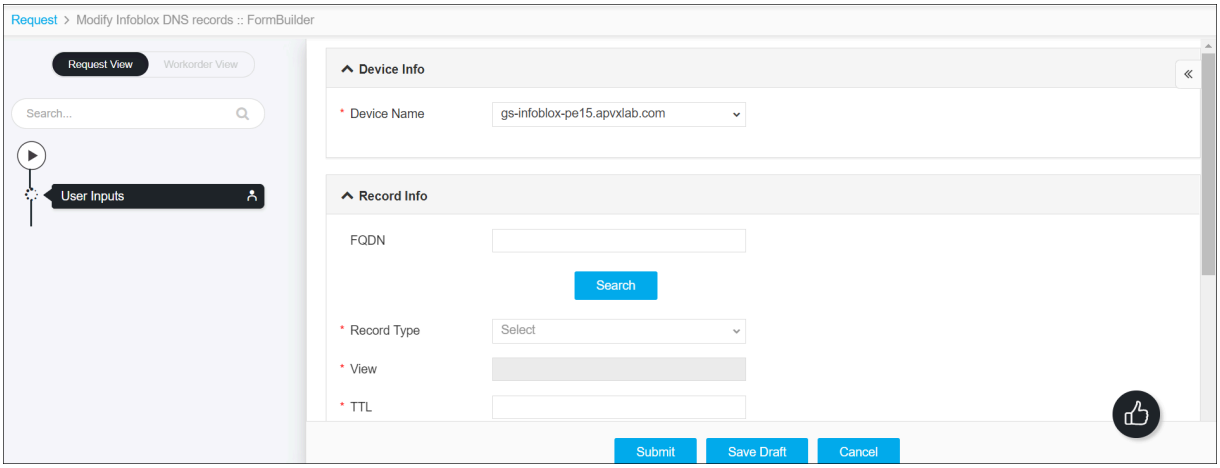
1. Go to ☰ **Menu** > **Request** > **View/Run**.
   The Workflow Catalog page appears.
2. In the Workflow Catalog page, hover over the **Modify Infoblox DNS records** workflow.
   The Run and Schedule buttons are shown.

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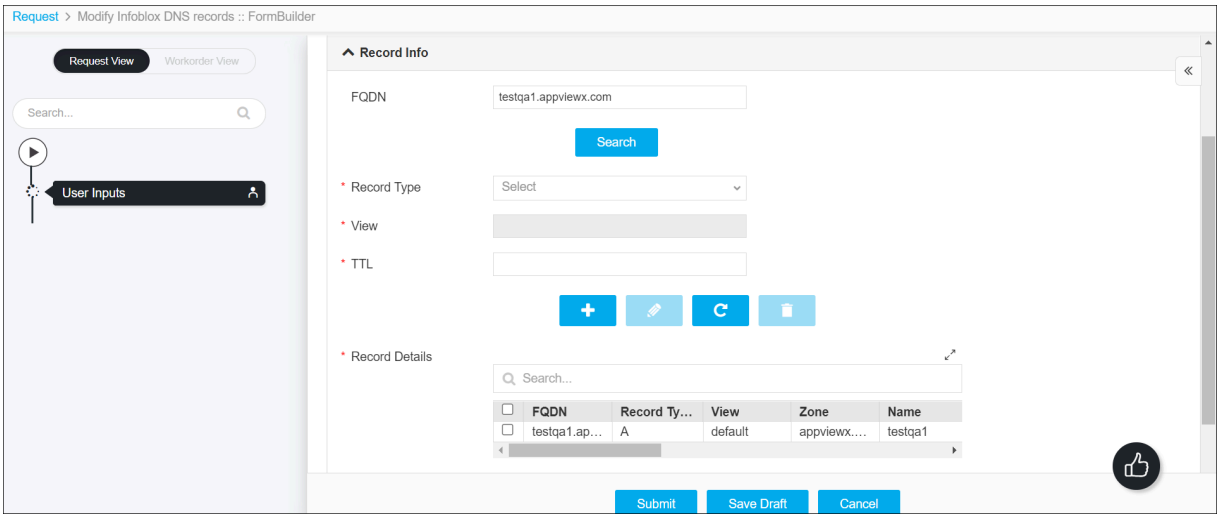
3. Click the Run  button.

   The Form Input page opens:



4. Provide the necessary details of DNS record for a device.

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5. Click the **Submit** button.

   The Confirmation popup opens.

> **Note:**
> - If you want to save this form to edit it later, click the **Save Draft** button, and then click **Ok** in the Confirmation popup window. The form will be saved as Open request under **Request** > **My Request**.
> - If you want to cancel this form, click the **Cancel** button.

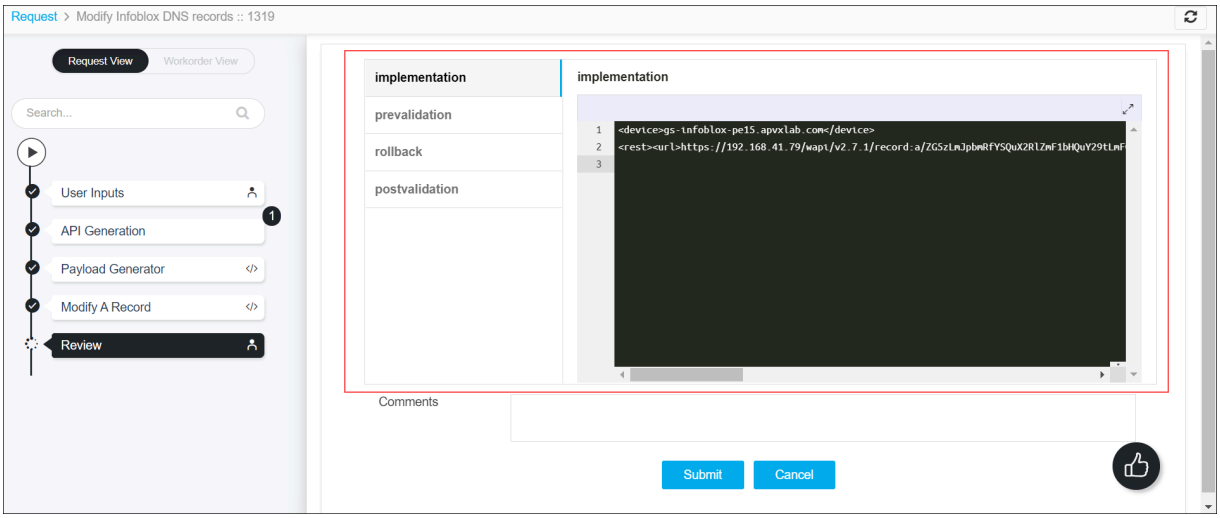
6. Click **Ok** to submit the form.

   The validation starts automatically and reaches the **Review** stage.

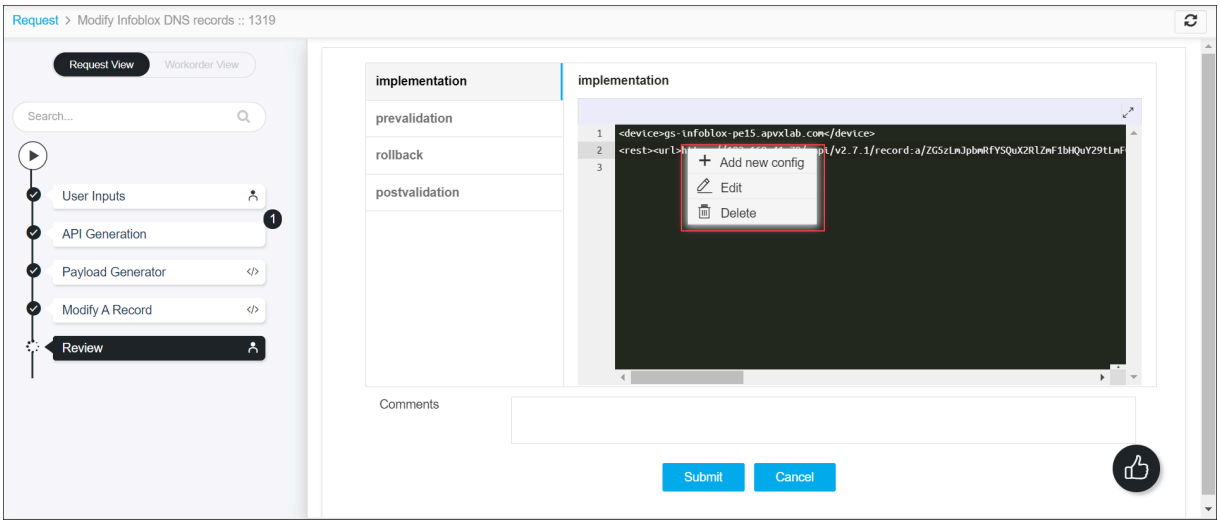
> **Note:**
> - If there is any failure at this stage, start a new request by providing the correct data.
> - Alternatively, select the failed request and clone it. Update the correct input data in the form input, and submit the workflow again.

7. Review the input data under the **implementation**, **rollback**, and **postvalidation** tabs:

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8. (Optional) If you need to update any data at this stage, you can do so by clicking the right side of the mouse on the data and selecting the desired option.

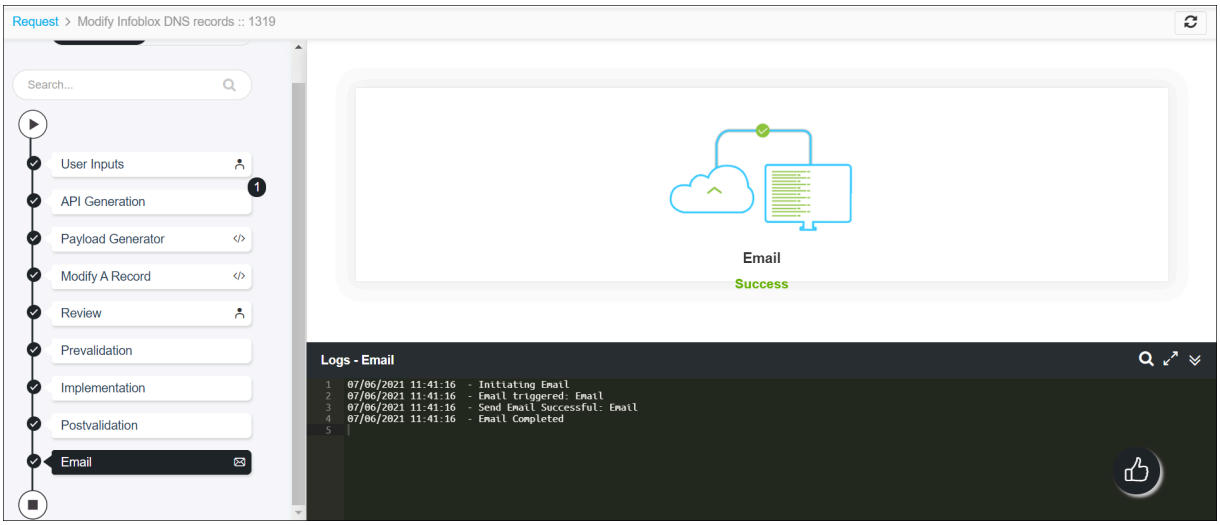


9. After the review, click the **Submit** button.
   The Confirmation popup opens.

> **Note:** To stop running the workflow creation, click **Cancel**.

10. Click **Ok** to continue the workflow creation.
    It takes a while to complete the request.
11. The workflow is created and the email is triggered to the configured email IDs.

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Note: The stages of the request are shown in the left side of the screen. To view a particular stage of the request, click the respective stage.

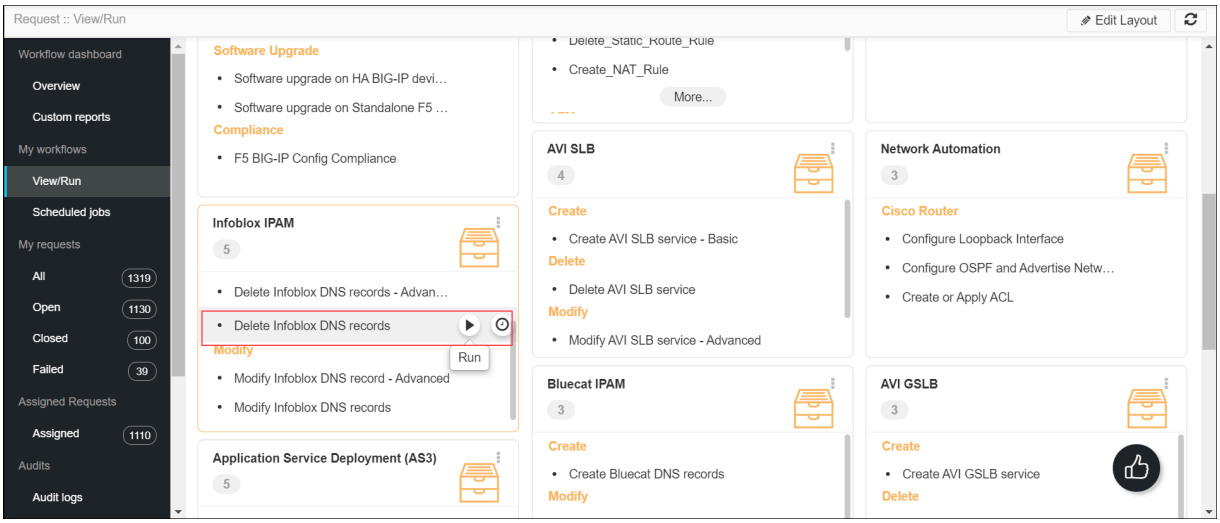
Delete Infoblox DNS Records - Basic

This workflow deletes existing records in Infoblox by fetching the existing records based on App Name. By using this workflow, you can modify multiple (A, HOST, PTR, CNAME, TXT, MX) records using the table.

To run this workflow,

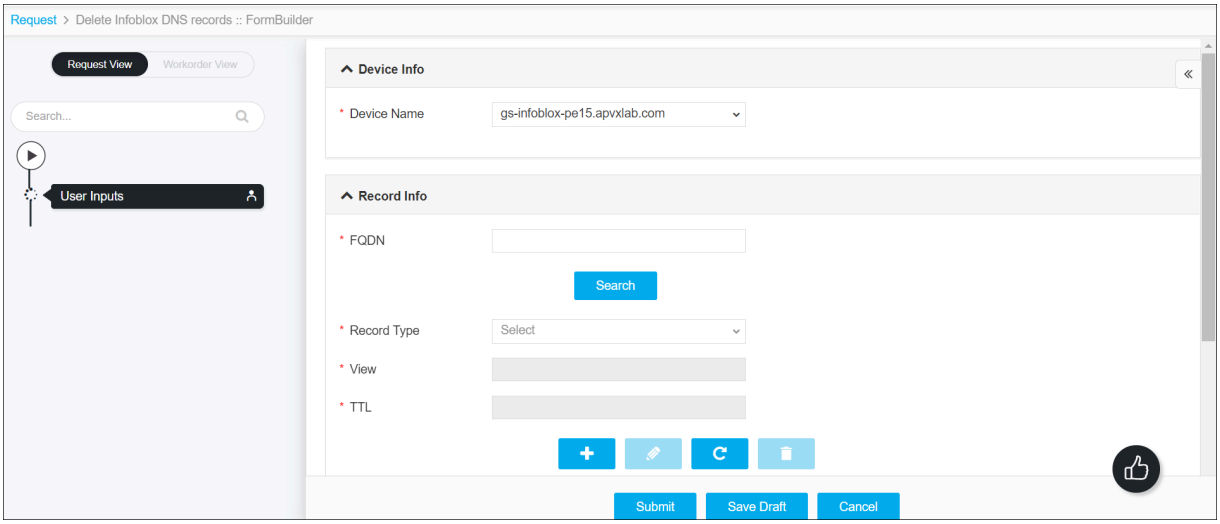
1. Go to ☰ **Menu** > **Request** > **View/Run**.
   The Workflow Catalog page appears.
2. In the Workflow Catalog page, hover over the **Delete Infoblox DNS records** workflow.
   The Run and Schedule buttons are shown.

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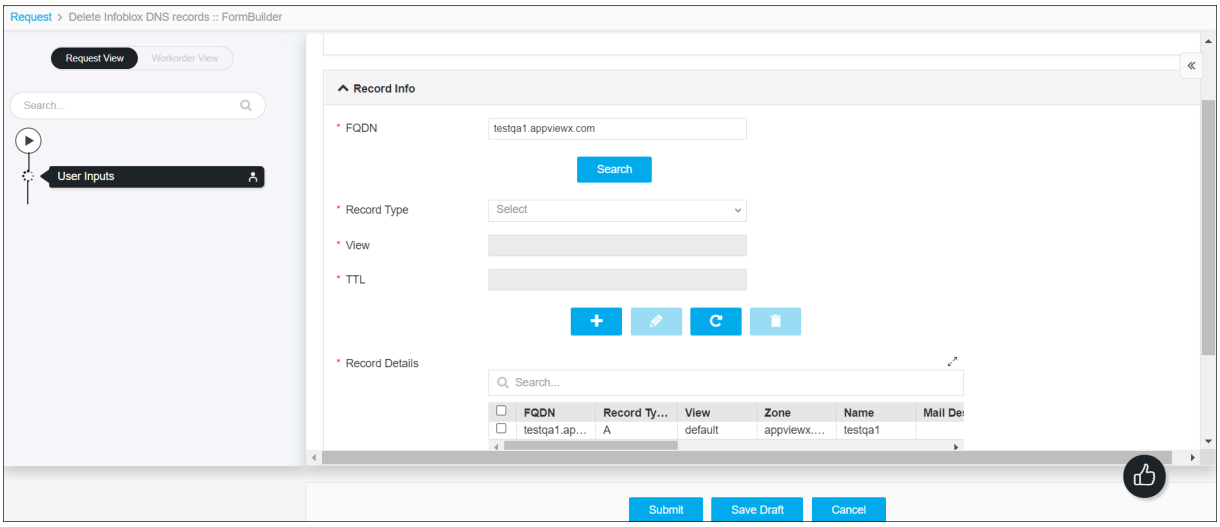
3. Click the Run  button.

   The Form Input page opens:



4. Provide the DNS record details of the device are to be deleted.

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5. Click the **Submit** button.

   The Confirmation popup opens.

> **Note:**
> - If you want to save this form to edit it later, click the **Save Draft** button, and then click **Ok** in the Confirmation popup window. The form will be saved as Open request under **Request** > **My Request**.
> - If you want to cancel this form, click the **Cancel** button.

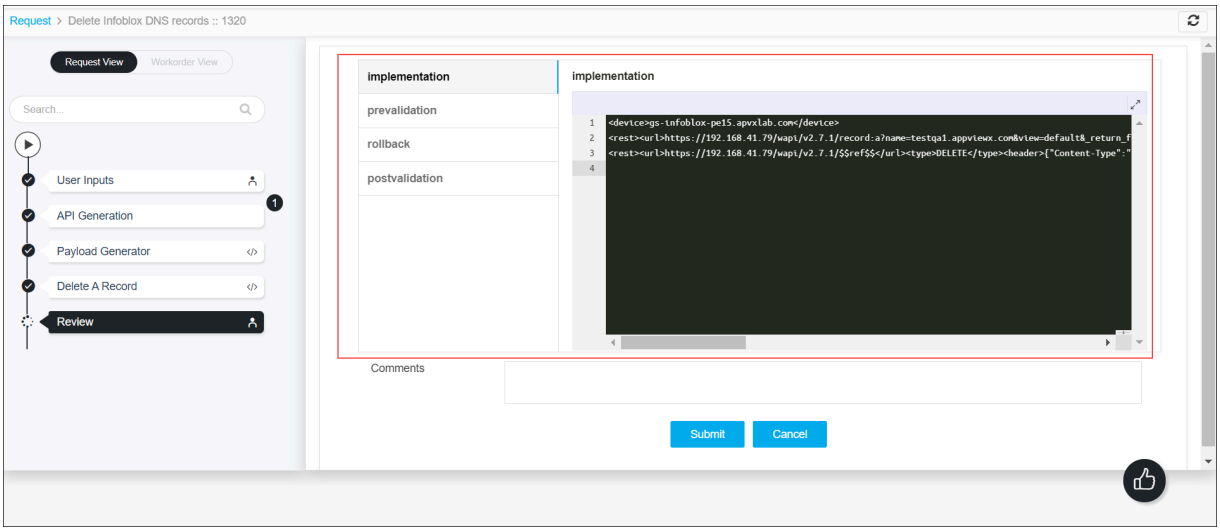
6. Click **Ok** to submit the form.

   The validation starts automatically and reaches the **Review** stage.

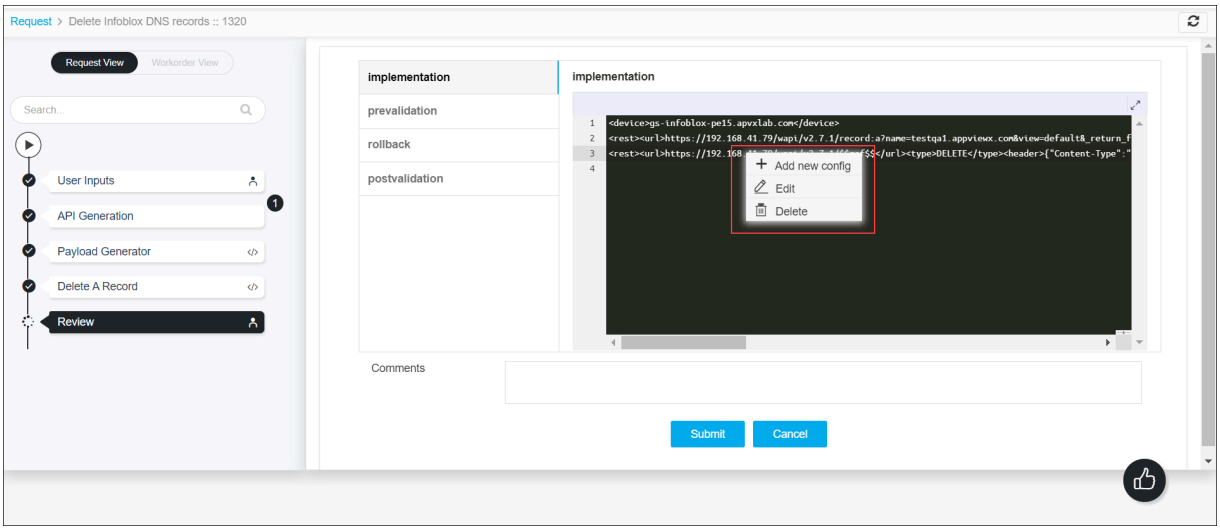
> **Note:**
> - If there is any failure at this stage, start a new request by providing the correct data.
> - Alternatively, select the failed request and clone it. Update the correct input data in the form input, and submit the workflow again.

7. Review the input data under the **implementation**, **rollback**, and **postvalidation** tabs:

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8. (Optional) If you need to update any data at this stage, you can do so by clicking the right side of the mouse on the data and selecting the desired option.



9. After the review, click the **Submit** button.

   The Confirmation popup opens.

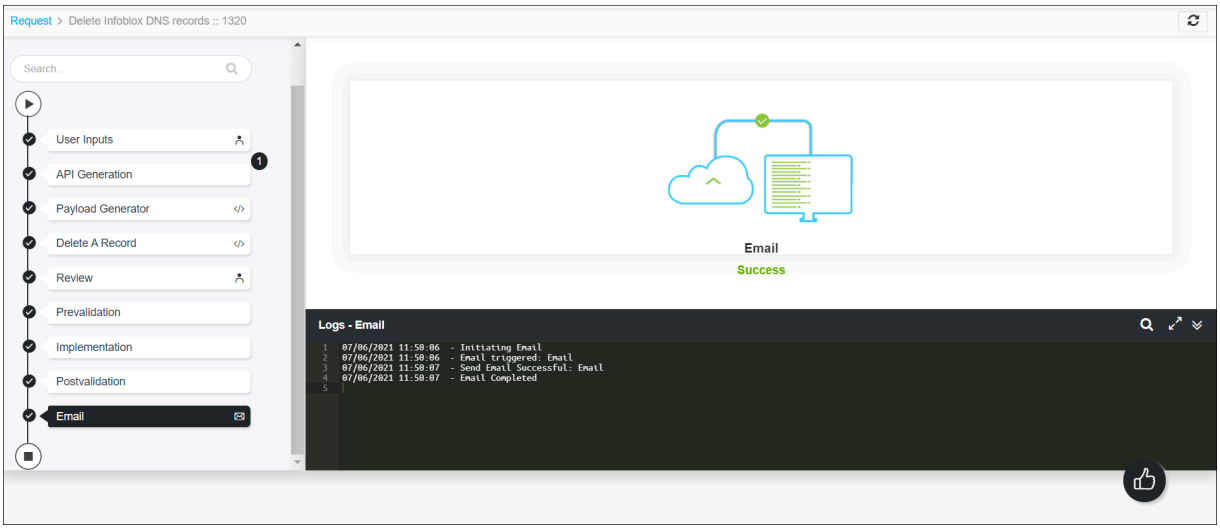
> **Note:** Click Cancel to stop running the workflow creation.

10. Click **Ok** to continue the workflow creation.

    It takes a while to complete the request.

11. The workflow is created and the email is triggered to the configured email IDs.

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Note: The stages of the request are shown in the left side of the screen. To view a particular stage of the request, click the respective stage.

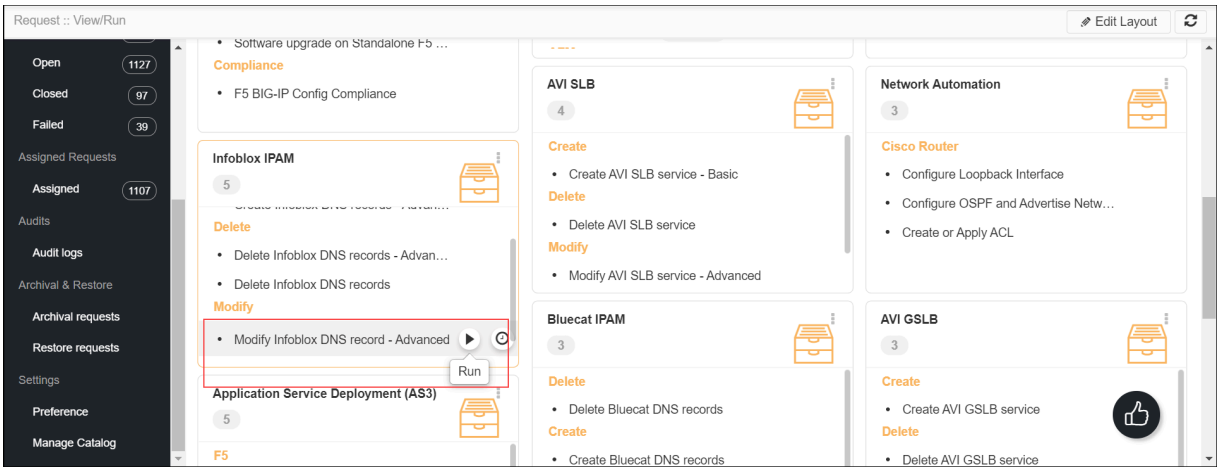
Modify Infoblox DNS Record – Advanced

This workflow modifies the existing records in Infoblox by fetching the existing records based on FQDN. By using this workflow, you can modify multiple (A, HOST, PTR,CNAME,TXT,MX) records using the table.

To run this workflow,

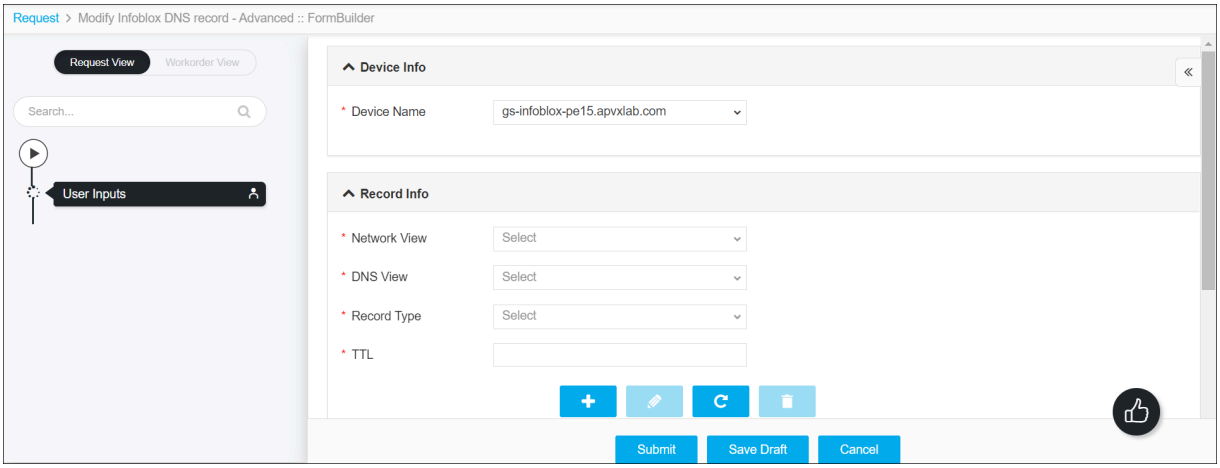
1. Go to **Menu** > **Request** > **View/Run**.
   The Workflow Catalog page appears.
2. In the Workflow Catalog page, hover over the **Modify Infoblox DNS records – Advanced** workflow.
   The Run and Schedule buttons areshown.

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3. Click the Run  button.

   The Form Input page opens:



4. Modify the necessary details of existing DNS records for the device in Infoblox.
5. Click the **Submit** button.

   The Confirmation popup opens.

Note:

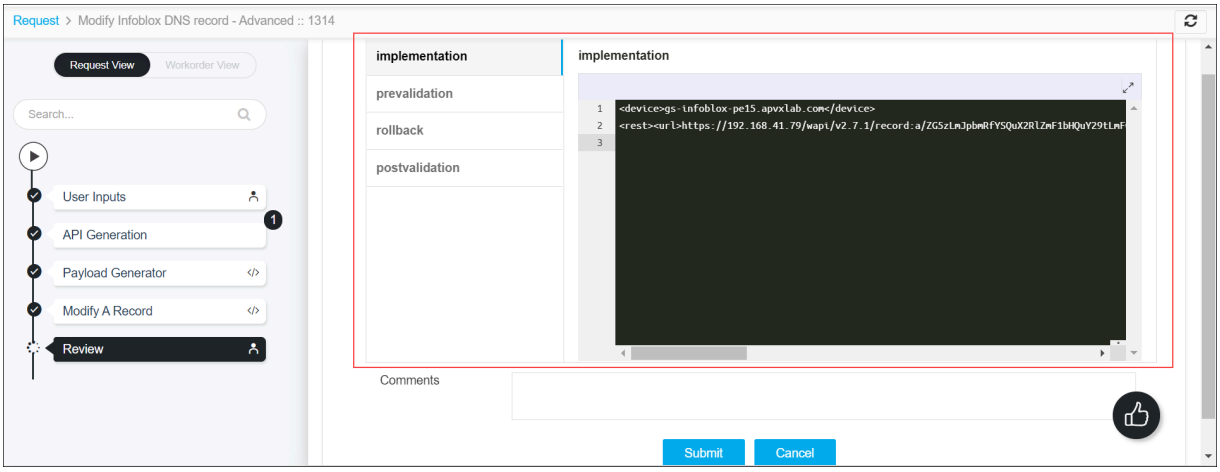
- If you want to save this form to edit it later, click the **Save Draft** button, and then click **Ok** in the Confirmation popup window. The form will be saved as Open request under **Request** > **My Request**.
- If you want to cancel this form, click the **Cancel** button.

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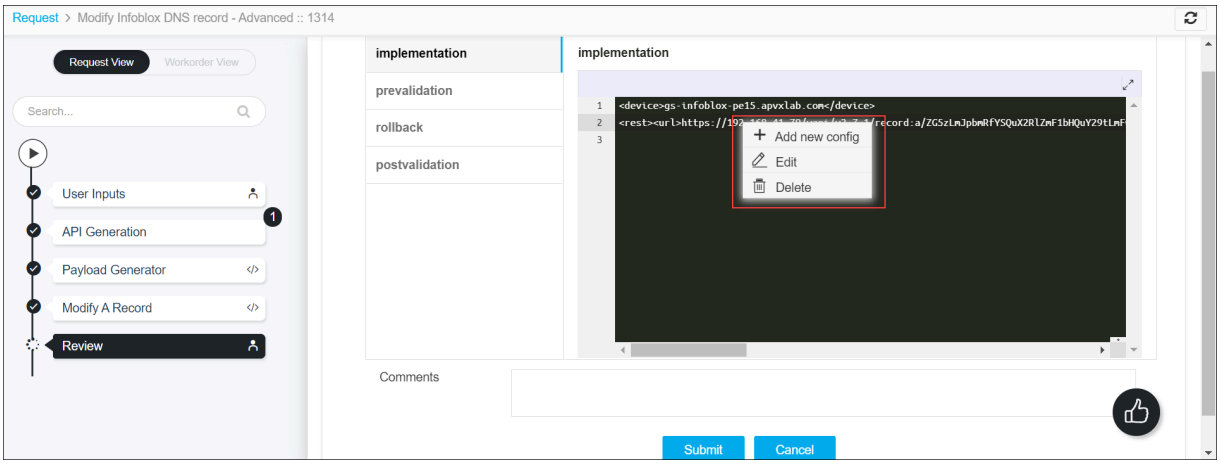
6. Click **Ok** to submit the form.
   The validation starts automatically and reaches the **Review** stage.

> **Note:**
> • If there is any failure at this stage, start a new request by providing the correct data.
> • Alternatively, select the failed request and clone it. Update the correct input data in the form input, and submit the workflow again.

7. Review the input data under the **implementation**, **rollback**, and **postvalidation** tabs:



8. (Optional) If you need to update any data at this stage, you can do so by clicking the right side of the mouse on the data and selecting the desired option.

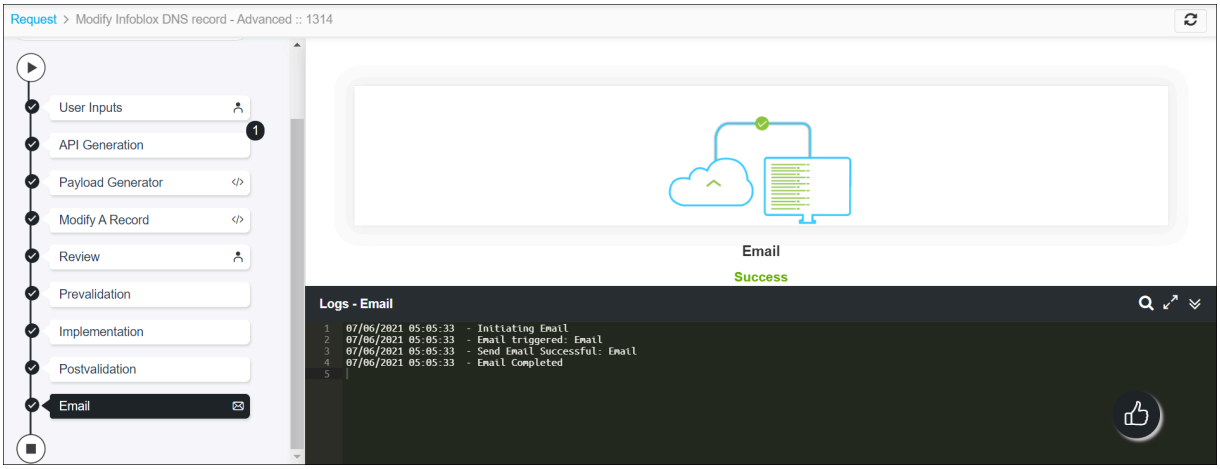


9. After the review, click the **Submit** button.
   The Confirmation popup opens.

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Note: To stop running the workflow creation, click **Cancel**.

10. Click **Ok** to continue the workflow creation.
    It takes a while to complete the request.
11. The workflow is created and the email is triggered to the configured email IDs.



Note: The stages of the request are shown in the left side of the screen. To view a particular stage of the request, click the respective stage.

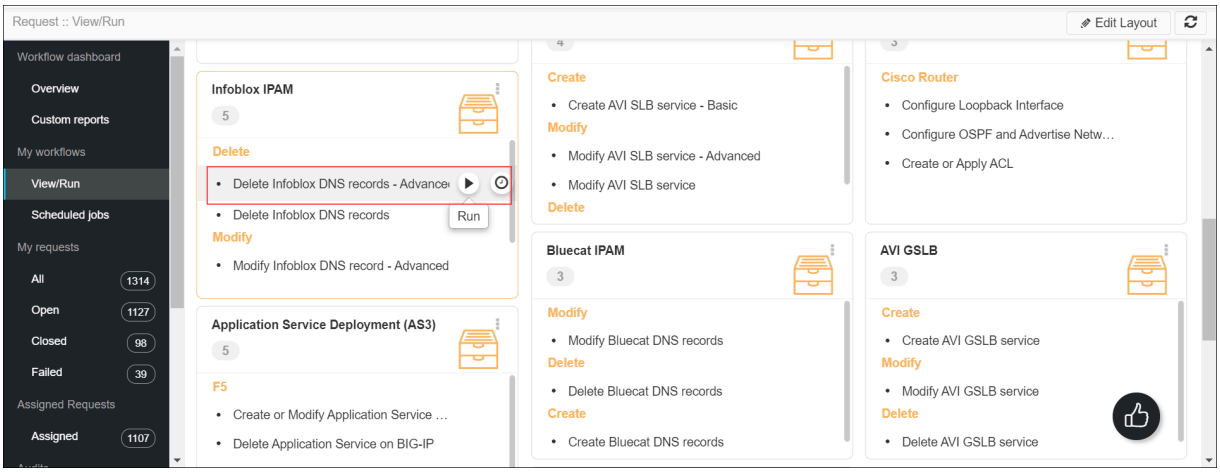
Delete Infoblox DNS Records – Advanced

This workflow deletes existing records in Infoblox by fetching the existing records based on FQDN. By using this workflow, you can delete multiple (A, HOST, PTR, CNAME, TXT, MX) records.

To run this workflow,

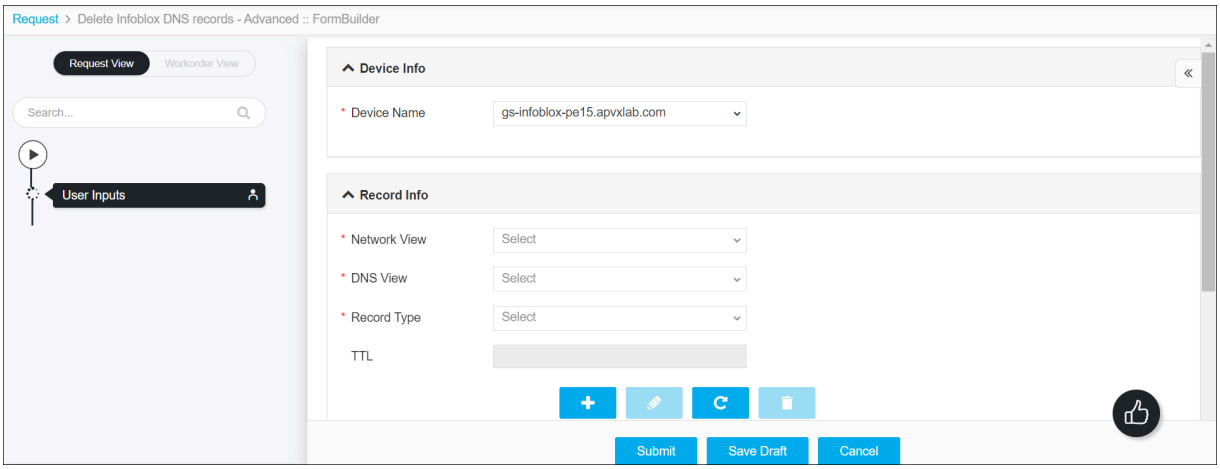
1. Go to ☰ **Menu** > **Request** > **View/Run**.
   The Workflow Catalog page appears.
2. In the Workflow Catalog page, hover over the **Delete Infoblox DNS records – Advanced** workflow.
   The Run and Schedule buttons are shown.

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3. Click the Run  button.

   The Form Input page opens:



4. Provide the DNS record details of the device are to be deleted.
5. Click the **Submit** button.

   The Confirmation popup opens.

> **Note:**
>
> - If you want to save this form to edit it later, click the **Save Draft** button, and then click **Ok** in the Confirmation popup window. The form will be saved as Open request under Request > My Request.
> - If you want to cancel this form, click the **Cancel** button.

6. Click **Ok** to submit the form.

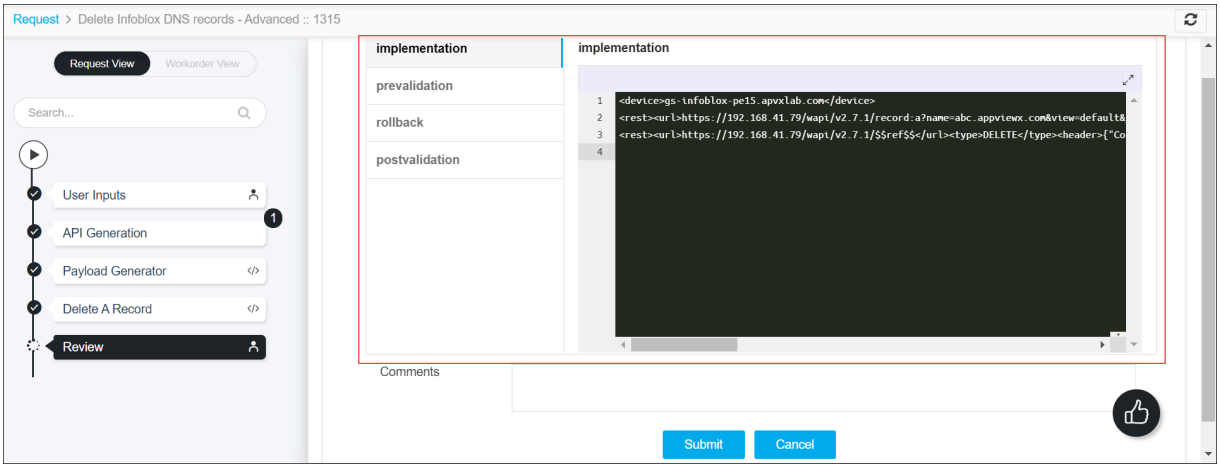
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The validation starts automatically and reaches the **Review** stage.

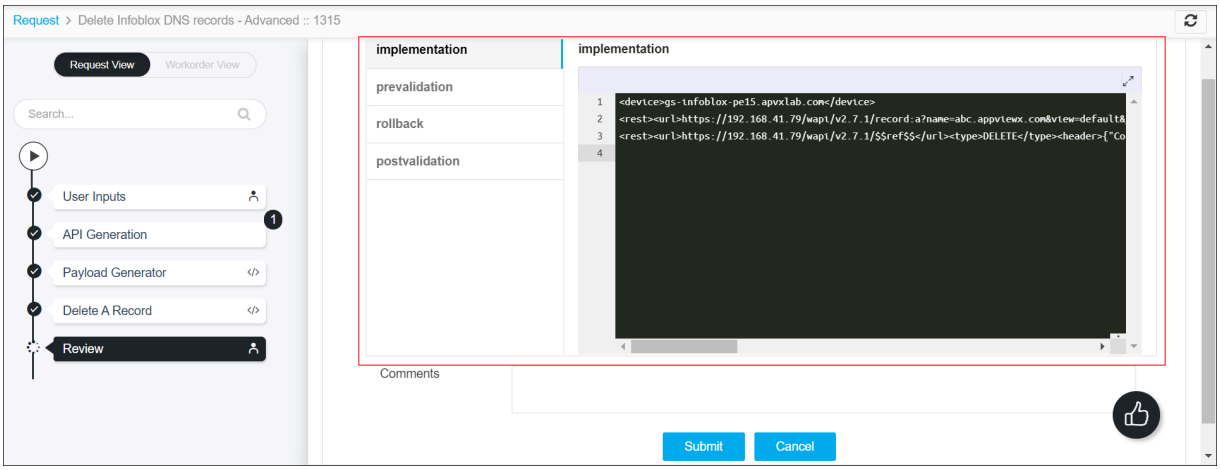
Note:

- If there is any failure at this stage, start a new request by providing the correct data.
- Alternatively, select the failed request and clone it. Update the correct input data in the form input, and submit the workflow again.

7. Review the input data under the implementation, rollback, and postvalidation tabs:



8. (Optional) If you need to update any data at this stage, you can do so by clicking the right-side of the mouse on the data and selecting the desired option.



9. After the review, click the Submit button.
   The Confirmation popup opens.

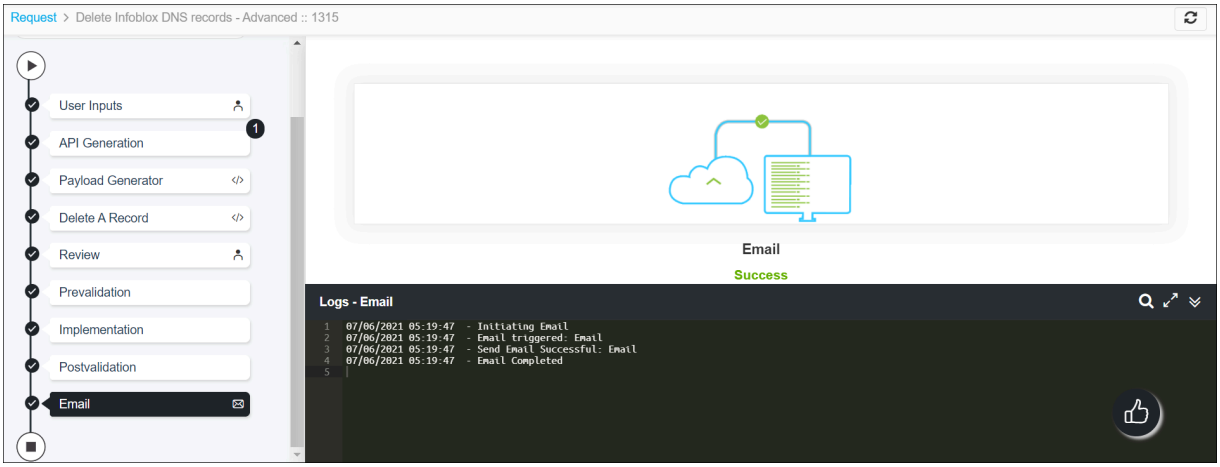
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Note: To stop running the workflow creation, click **Cancel**.

10. Click **Ok** to continue the workflow creation.

    It takes a while to complete the request.

11. The workflow is created and the email is triggered to the configured email IDs.



Note: The stages of the request are shown in the left side of the screen. To view a particular stage of the request, click the respective stage.

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Chapter 9: BlueCat IPAM

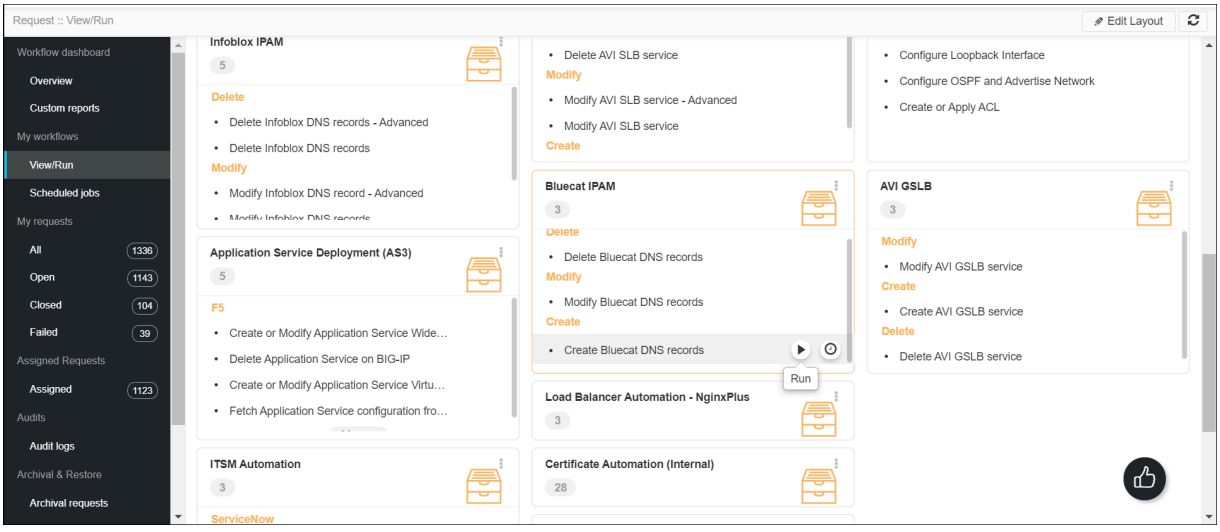
- Create BlueCat DNS Records
- Modify BlueCat DNS Records
- Delete BlueCat DNS Record

Create BlueCat DNS Records

This workflow creates records in Bluecat. Also, it creates multiple (A, HOST, PTR,CNAME,TXT,MX) records. In the case of A, Host, PTR record creation, IP can be fetched and reserved on the fly.

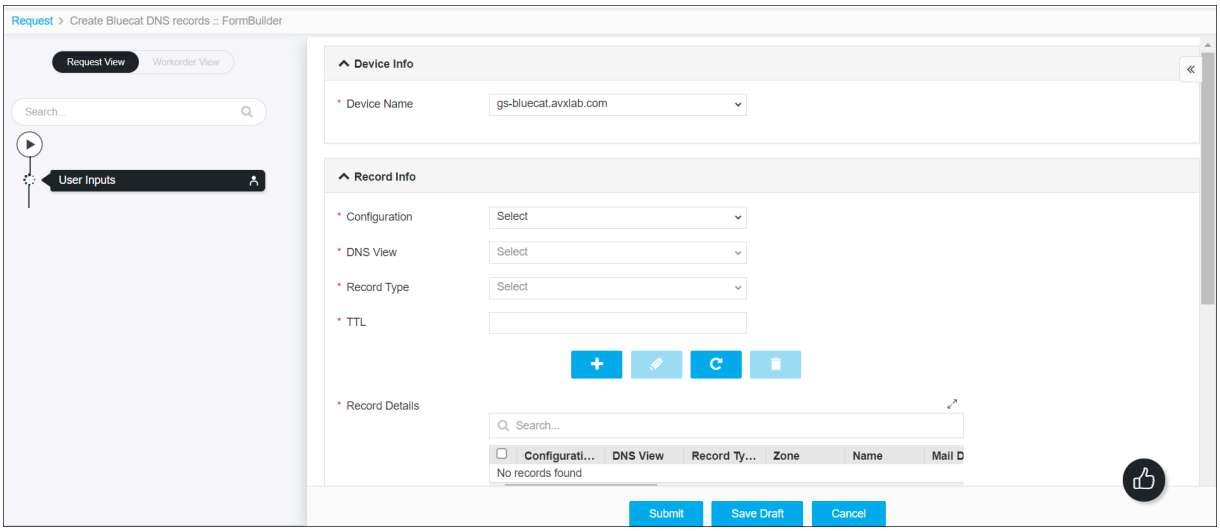
To run this workflow,

1. Go to **Menu** > **Request** > **View/Run**.
   The Workflow Catalog page appears.
2. In the Workflow Catalog page, hover over the **Create Bluecat DNS records** workflow.
   The Run and Schedule buttons are shown.



3. Click the Run button.
   The Form Input page opens:

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4. Enter or select the field information in the **Device Info** section of the Form Input.

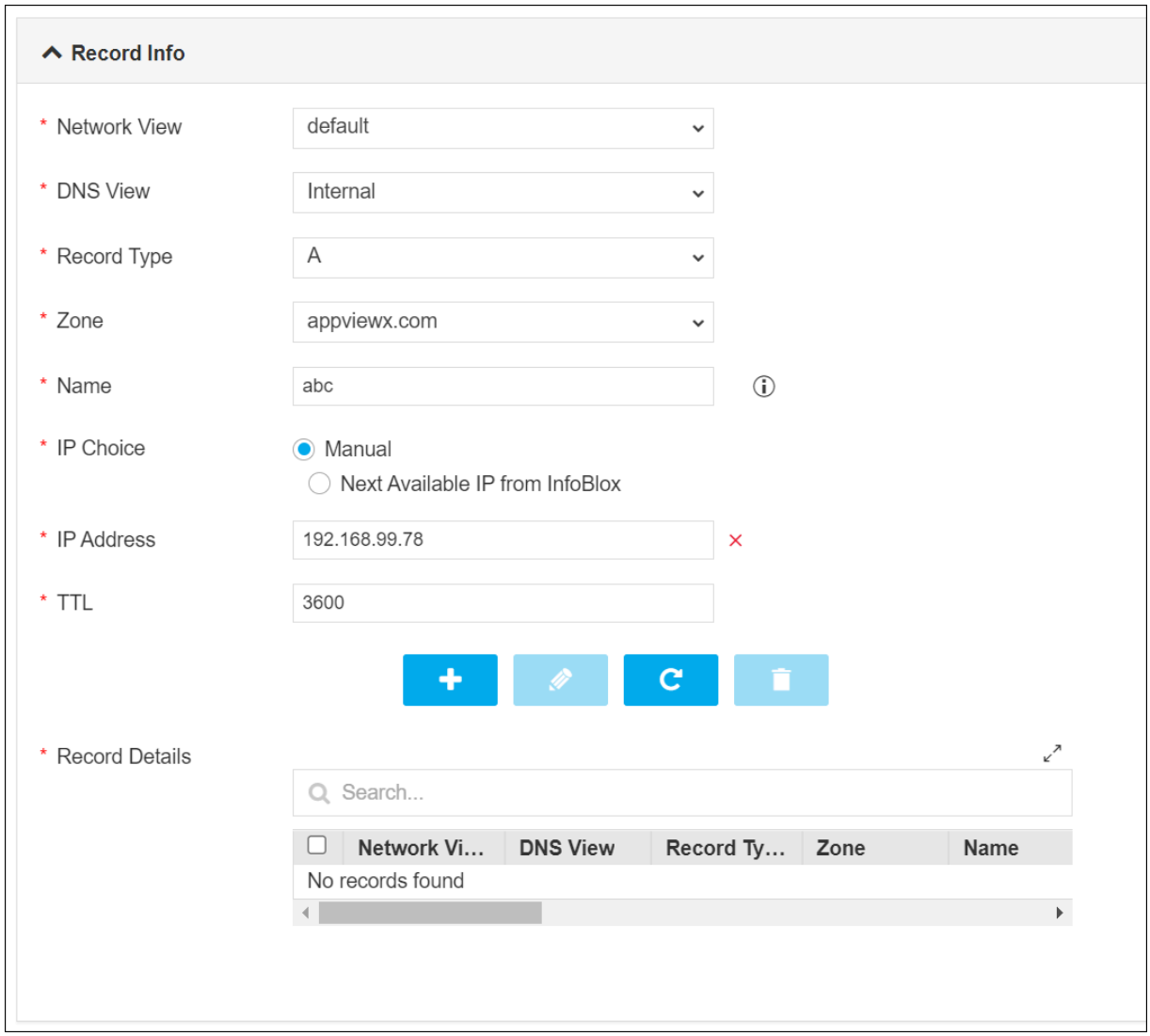


5. The following table provides the field description for the **Device Info** section in the Form Input:

Field	Description
*Device Name	Select the device name from the drop-down list.

6. The following table provides the field description for the **Record Info** section in the Form Input:

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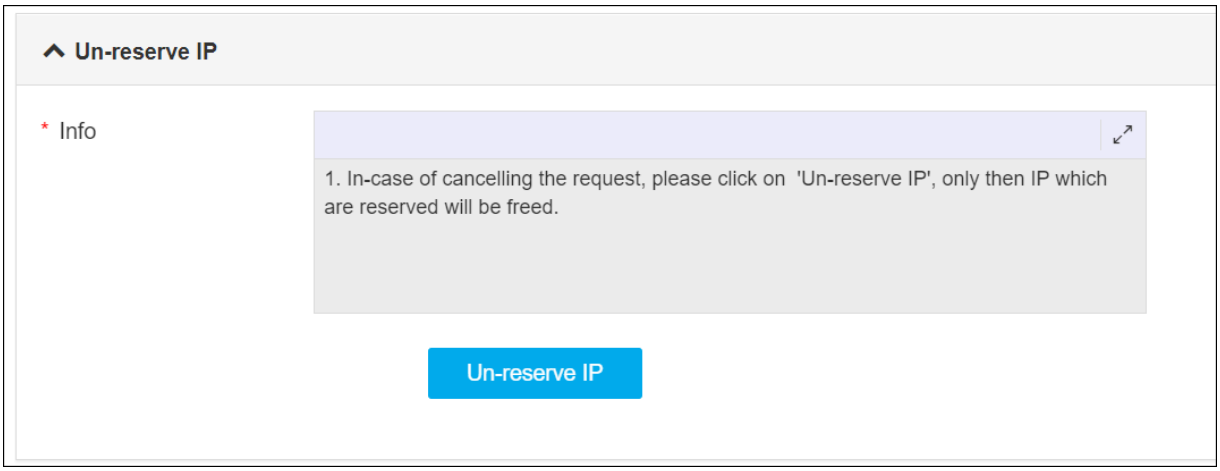
7. The following table provides the field description for the **Record Info** section in the Form Input:

Field	Description
*Network View	Select the network view from the drop-down option.
*DNS View	Select the DNS view from the drop-down option. DNS view is the container object for DNS zones and resource records.
*Zone	Select the zone from the drop-down option. DNS zones represent your DNS zone of authority. For example, appviewx.com.

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Field	Description
*Record Type	Select the record types from the drop-down option. The record types are A, HOST, PTR, CNAME, TXT, MX). In the case of A, Host, and PTR record creation, IP can be fetched and reserved on the fly. Provide the details for record type.
*TTL	Specify TTL (time to live) settings for Infoblox host records and resource records. TTL is the time that a name server is allowed to cache data. After the TTL expires, the name server is required to update the data.

8. If you cancel this request, remember to free the reserved IP by clicking the **Un-reserve IP** button.



9. Click the **Submit** button.

   The Confirmation popup opens.

> **Note:**
> - If you want to save this form to edit it later, click the **Save Draft** button, and then click **Ok** in the Confirmation popup window. The form will be saved as Open request under **Request** > **My Request**.
> - If you want to cancel this form, click the **Cancel** button.

10. Click **Ok** to submit the form.

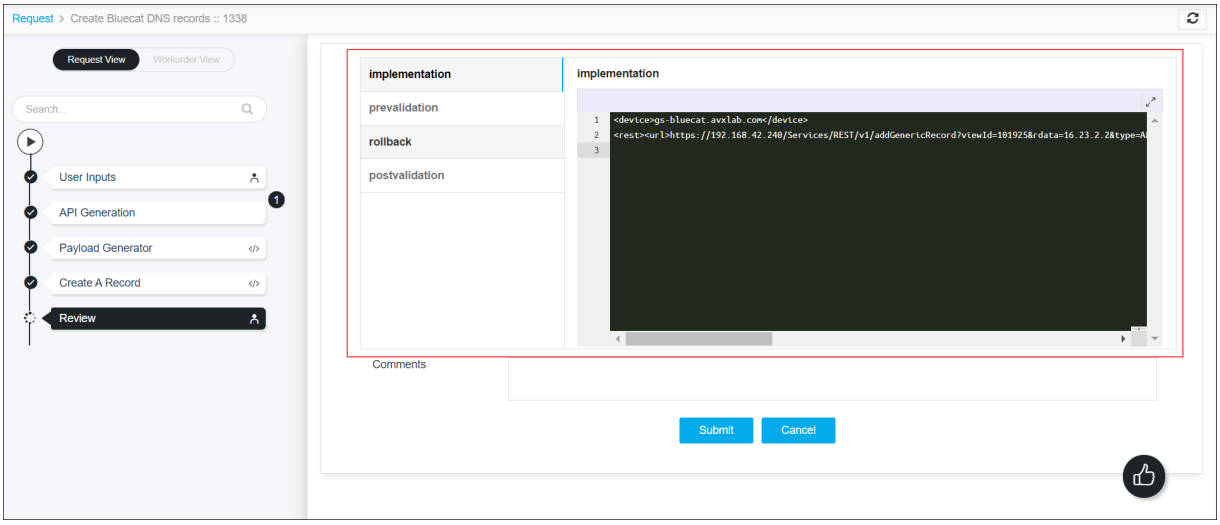
    The validation starts automatically and reaches the **Review** stage.

> **Note:**

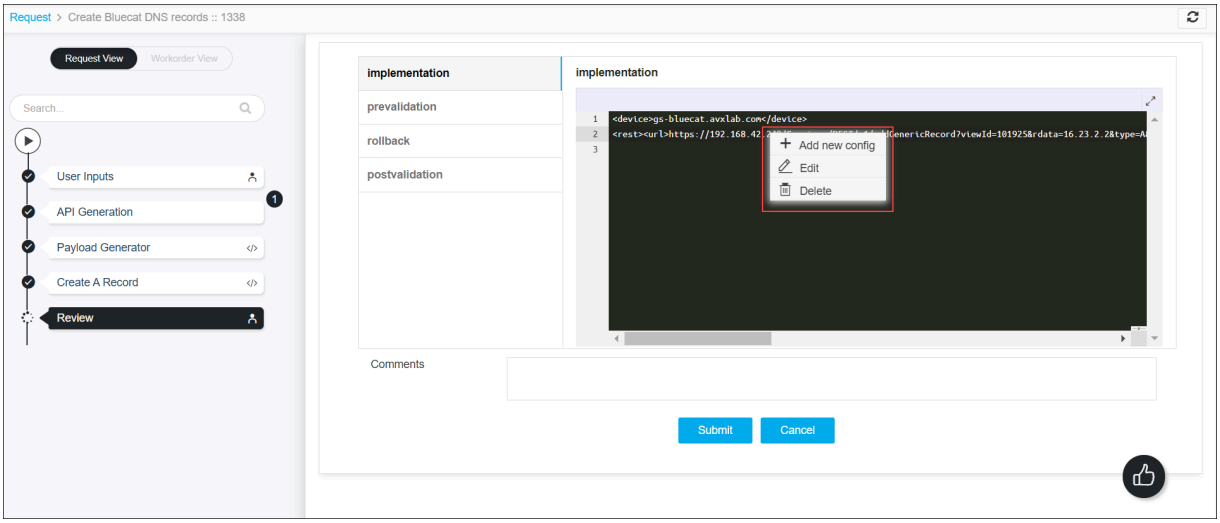
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- If there is any failure at this stage, start a new request by providing the correct data.
- Alternatively, select the failed request and clone it. Update the correct input data in the form input, and submit the workflow again.

11. Review the input data under the **implementation**, **rollback**, and **postvalidation** tabs:



12. (Optional) If you need to update any data at this stage, you can do so by clicking the right-side of the mouse on the data and selecting the desired option.

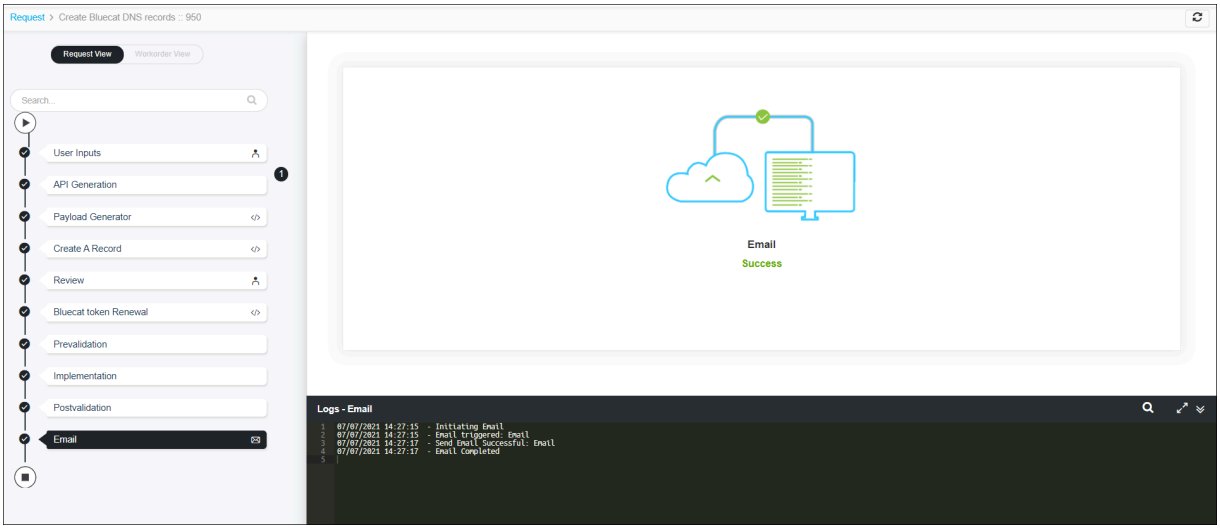


13. After the review, click the **Submit** button.
    The Confirmation popup opens.

Note: To stop running the workflow creation, click **Cancel**.

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14. Click **Ok** to continue the workflow creation.
    It takes a while to complete the request.
15. The workflow is created and the email is triggered to the configured email IDs.



Note: The stages of the request are shown in the left side of the screen. To view a particular stage of the request, click the respective stage.

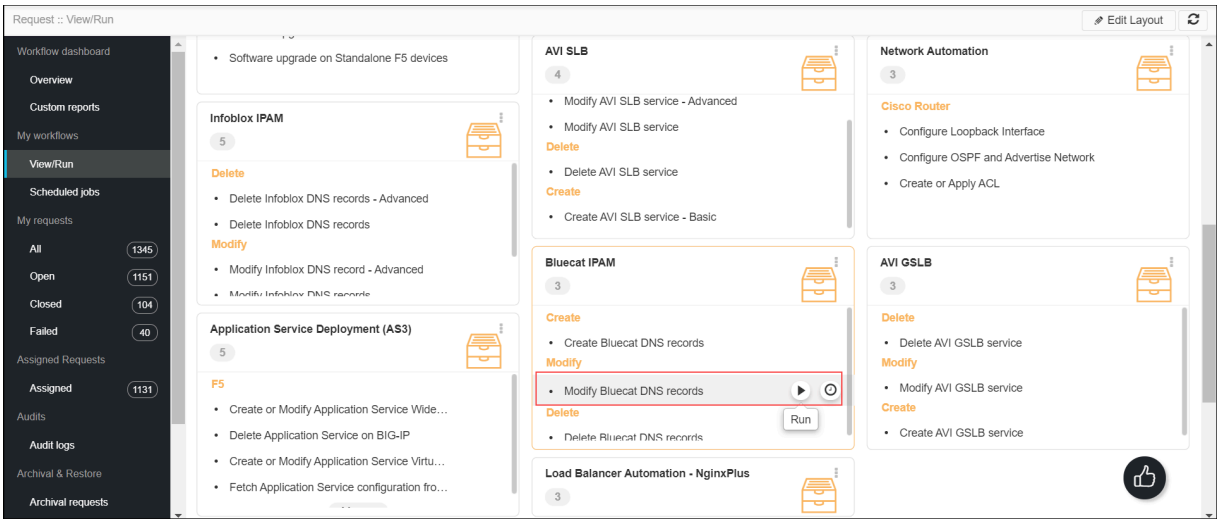
Modify BlueCat DNS Records

This workflow modifies existing records in Bluecat by fetching the existing records based on FQDN. It can also modify multiple (A, HOST, PTR, CNAME, TXT, MX) records.

To run this workflow,

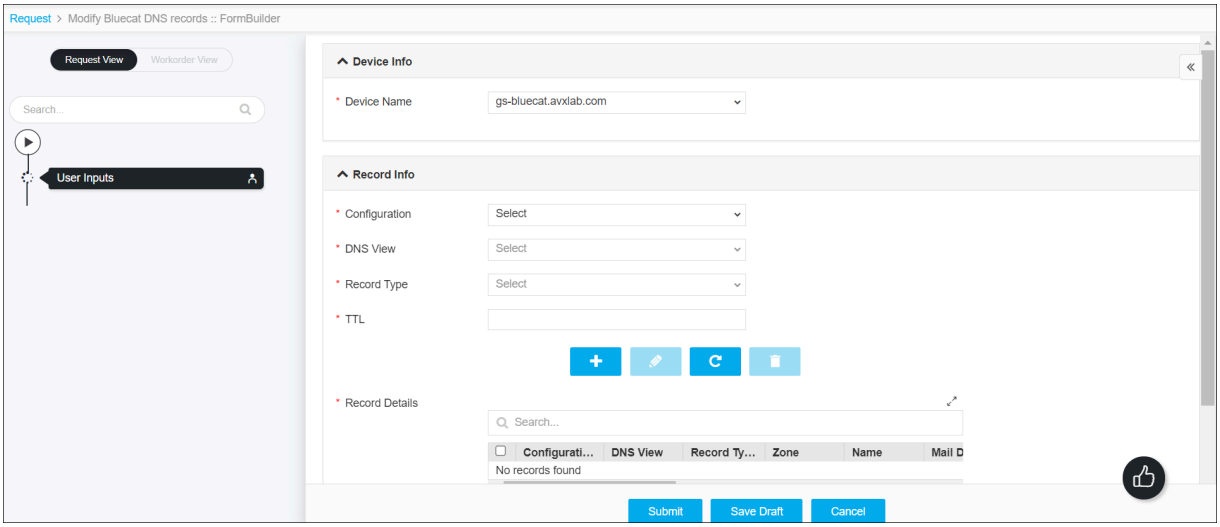
1. Go to **Menu** > **Request** > **View/Run**.
   The Workflow Catalog page appears.
2. In the Workflow Catalog page, hover over the **Modify Bluecat DNS records** workflow.
   The Run and Schedule buttons are shown.

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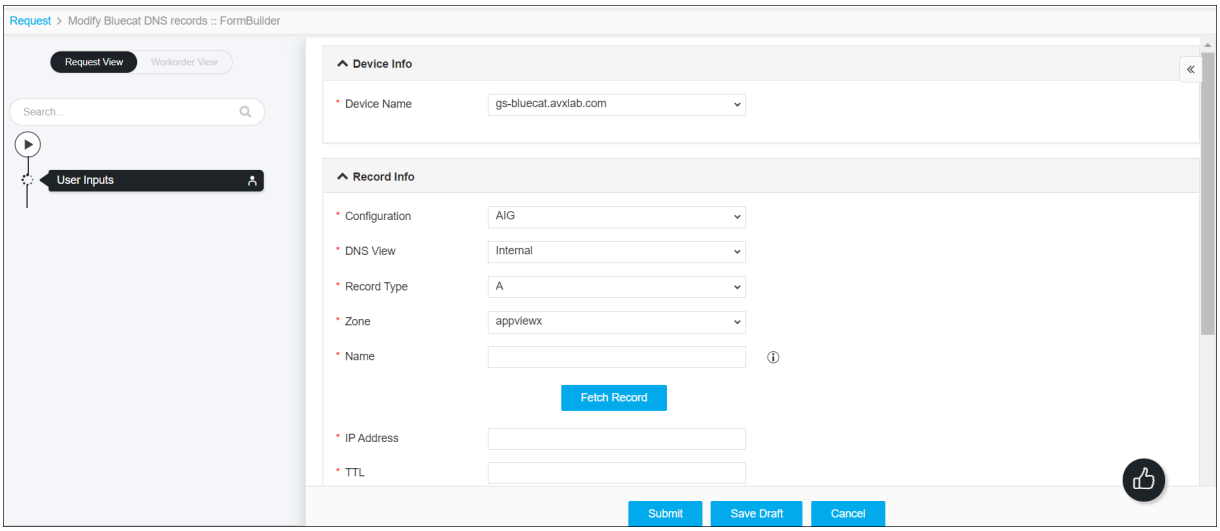
3. Click the Run  button.

   The Form Input page opens:



4. Provide the necessary details of DNS records for a device.

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5. Click the **Submit** button.

   The Confirmation popup opens.

> **Note:**
> - If you want to save this form to edit it later, click the **Save Draft** button, and then click **Ok** in the Confirmation popup window. The form will be saved as Open request under **Request** > **My Request**.
> - If you want to cancel this form, click the **Cancel** button.

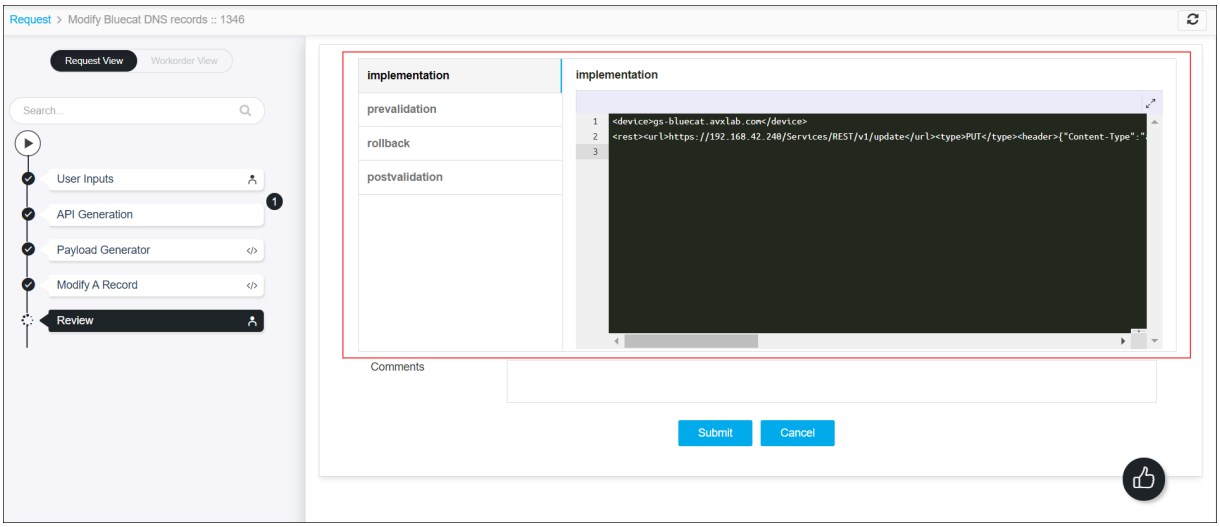
6. Click **Ok** to submit the form.

   The validation starts automatically and reaches the **Review** stage.

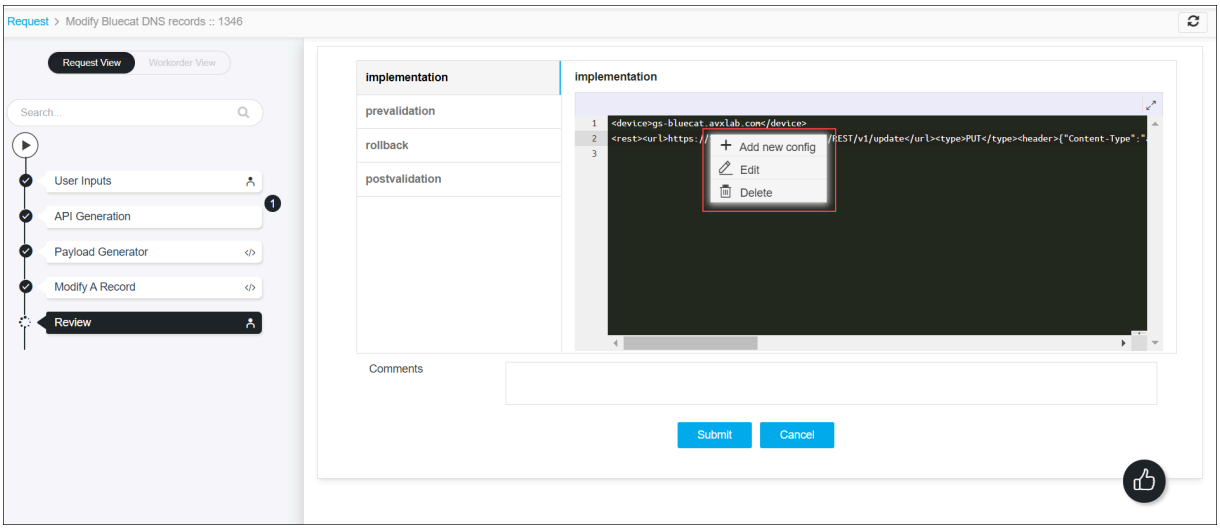
> **Note:**
> - If there is any failure at this stage, start a new request by providing the correct data.
> - Alternatively, select the failed request and clone it. Update the correct input data in the form input, and submit the workflow again.

7. Review the input data under the **implementation**, **rollback**, and **postvalidation** tabs:

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8. (Optional) If you need to update any data at this stage, you can do so by clicking the right side of the mouse on the data and selecting the desired option.

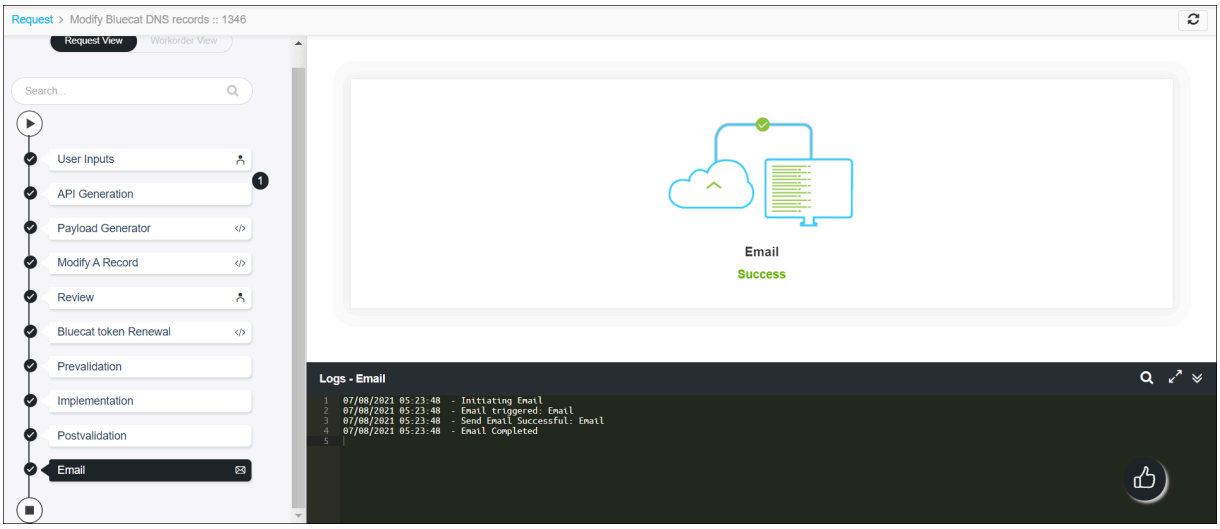


9. After the review, click the **Submit** button.
   The Confirmation popup opens.

> **Note:** To stop running the workflow creation, click **Cancel**.

10. Click **Ok** to continue the workflow creation.
    It takes a while to complete the request.
11. The workflow is created and the email is triggered to the configured email IDs.

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Note: The stages of the request are shown in the left side of the screen. To view a particular stage of the request, click the respective stage.

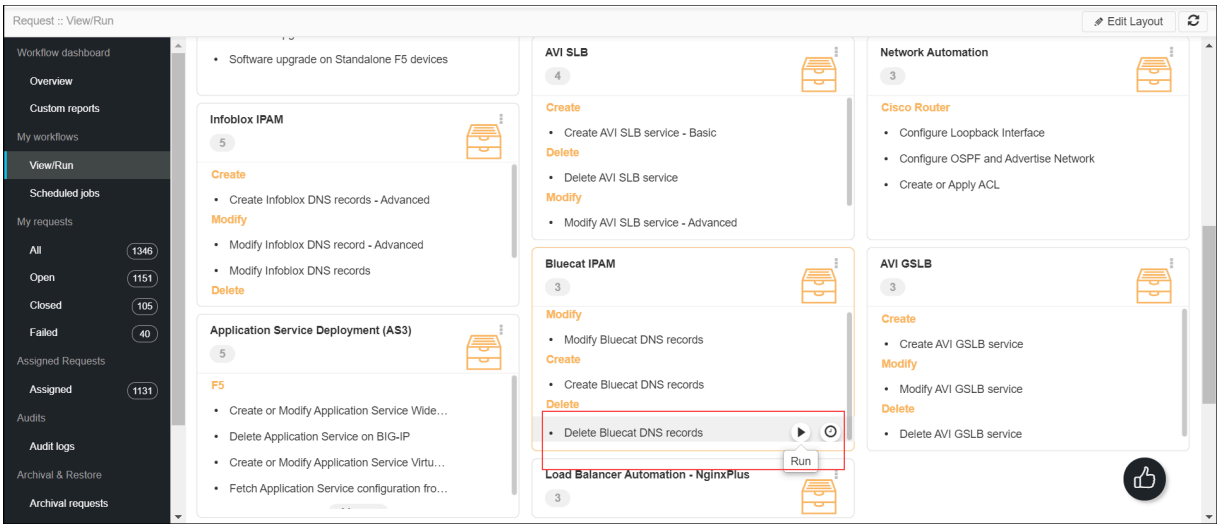
Delete BlueCat DNS Record

This workflow deletes existing records in Bluecat by fetching the existing records based on FQDN. Also deletes multiple (A, HOST, PTR,CNAME,TXT,MX) records.

To run this workflow,

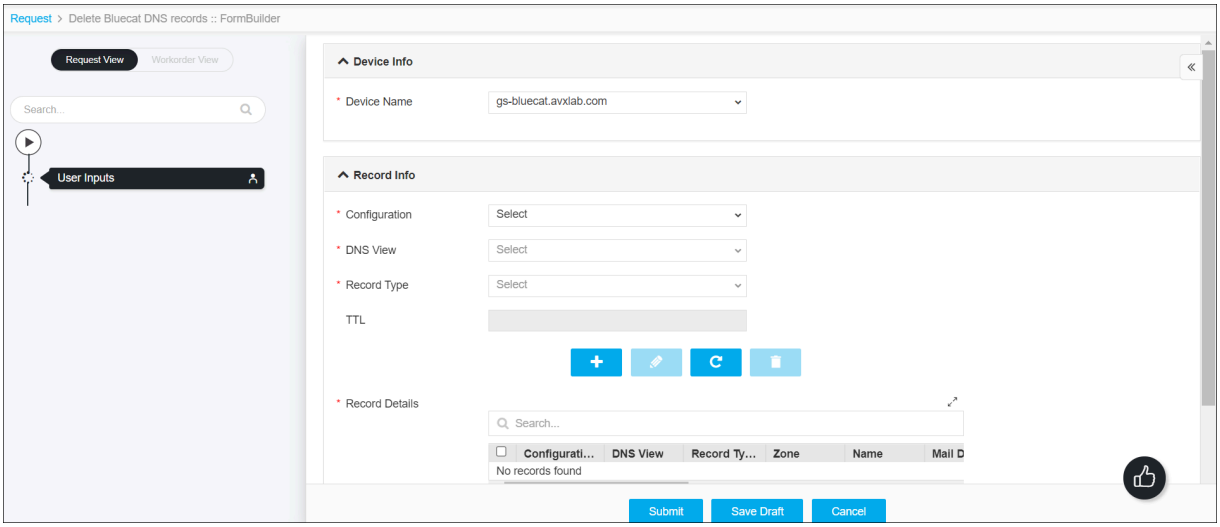
1. Go to ☰ **Menu** > **Request** > **View/Run**.
   The Workflow Catalog page appears.
2. In the Workflow Catalog page, hover over the **Delete Bluecat DNS records** workflow.
   The Run and Schedule buttons are shown.

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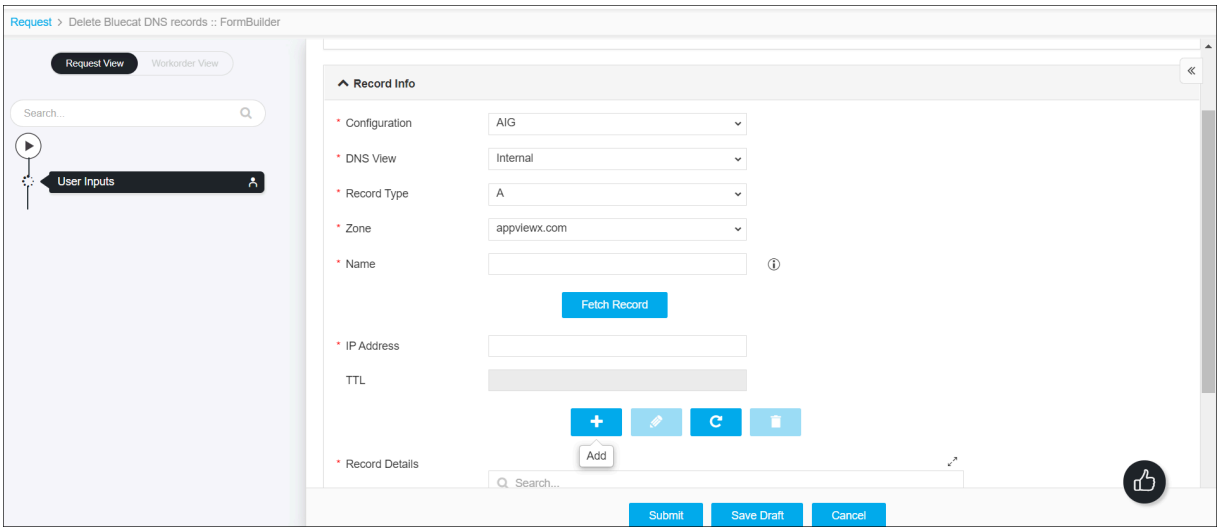
3. Click the Run  button.

   The Form Input page opens:



4. Provide the necessary details of DNS records that are to be deleted.

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5. Click the **Submit** button.
   The Confirmation popup opens.

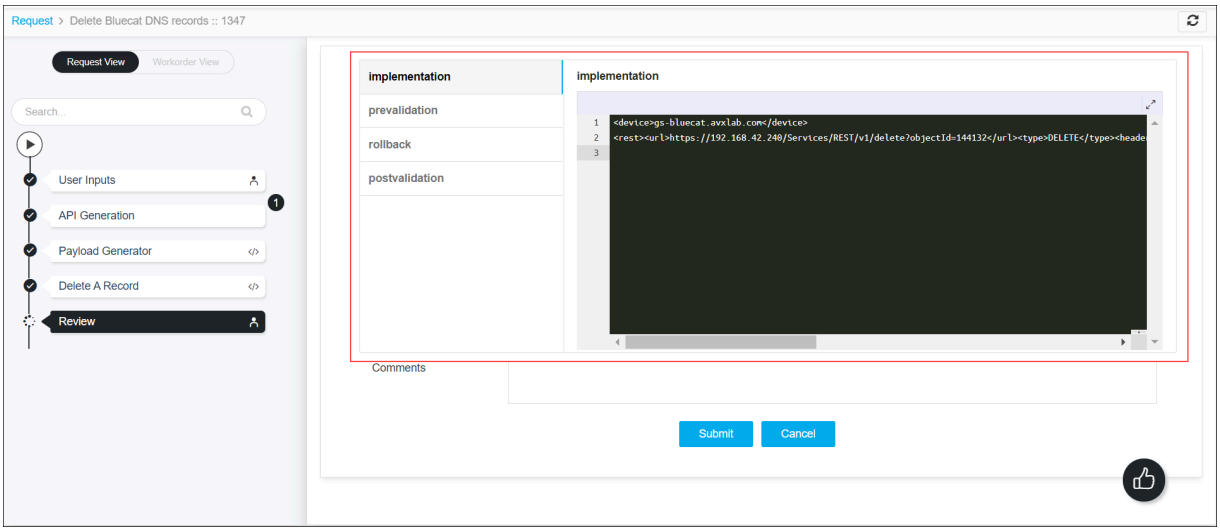
> **Note:**
> - If you want to save this form to edit it later, click the Save Draft button, and then click Ok in the Confirmation popup window. The form will be saved as Open request under Request > My Request.
> - If you want to cancel this form, click the Cancel button.

6. Click **Ok** to submit the form.
   The validation starts automatically and reaches the **Review** stage.

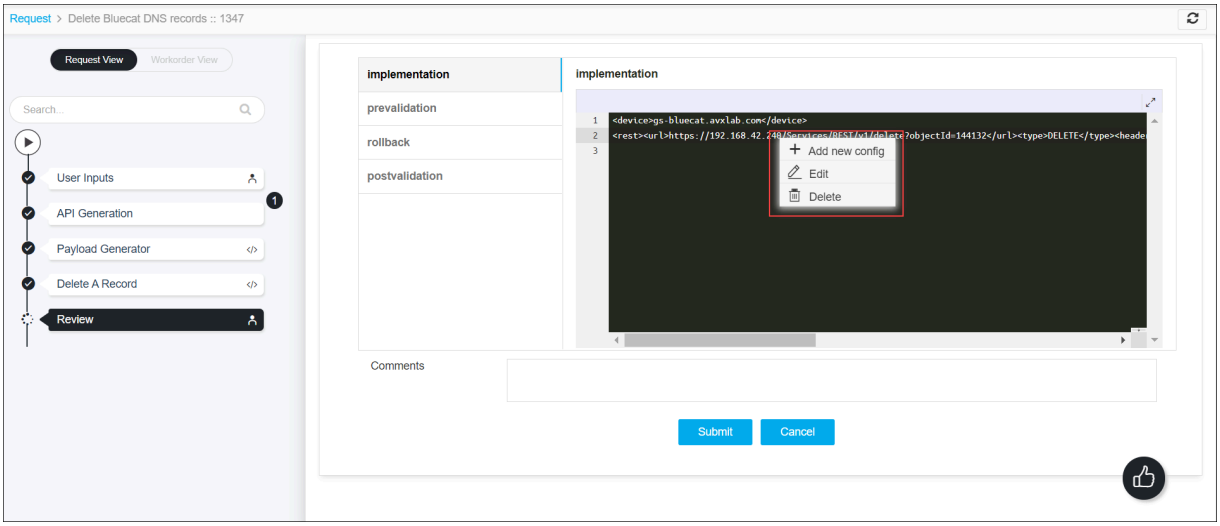
> **Note:**
> - If there is any failure at this stage, start a new request by providing the correct data.
> - Alternatively, select the failed request and clone it. Update the correct input data in the form input, and submit the workflow again.

7. Review the input data under the **implementation**, **rollback**, and **postvalidation** tabs:

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8. (Optional) If you need to update any data at this stage, you can do so by clicking the right side of the mouse on the data and selecting the desired option.

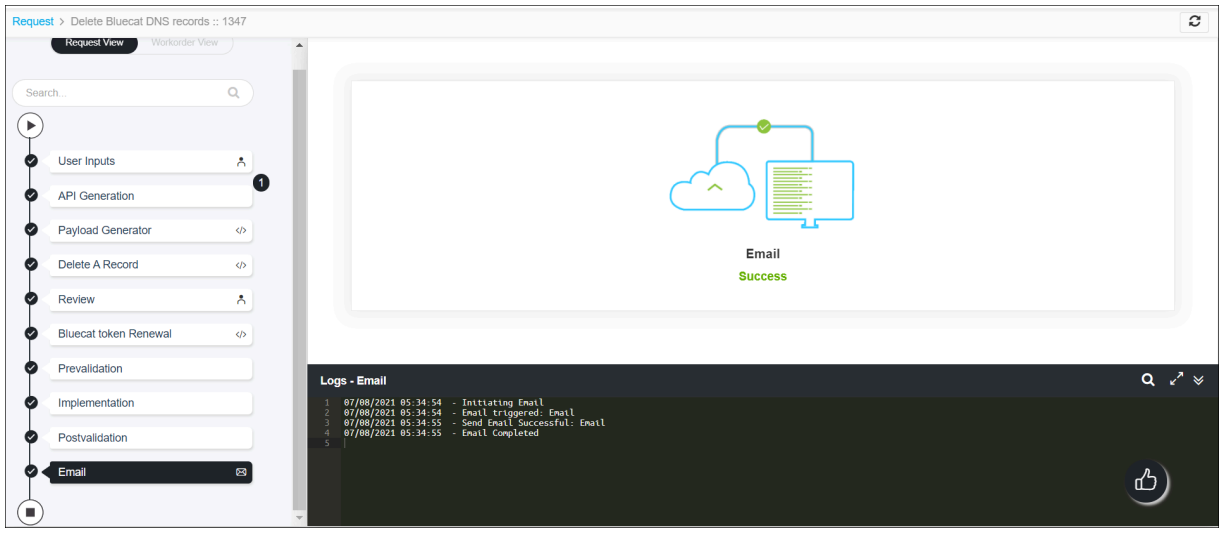


9. After the review, click the **Submit** button.
   The Confirmation popup opens.

> **Note:** Click Cancel to stop running the workflow creation.

10. Click **Ok** to continue the workflow creation.
    It takes a while to complete the request.
11. The workflow is created and the email is triggered to the configured email IDs.

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Note: The stages of the request are shown in the left side of the screen. To view a particular stage of the request, click the respective stage.

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Chapter 10: F5 BIG IP ASM

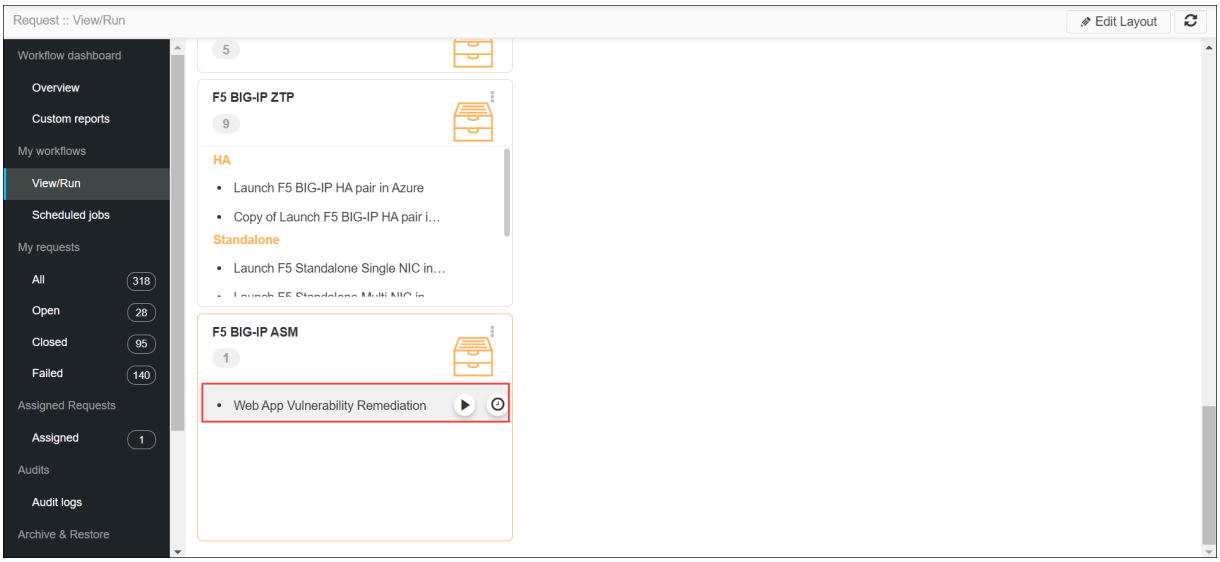
- Web App Vulnerability Remediation

Web App Vulnerability Remediation

This workflow create/selects a ASM Policy in F5 WAF Device to assess and remediate vulnerabilities

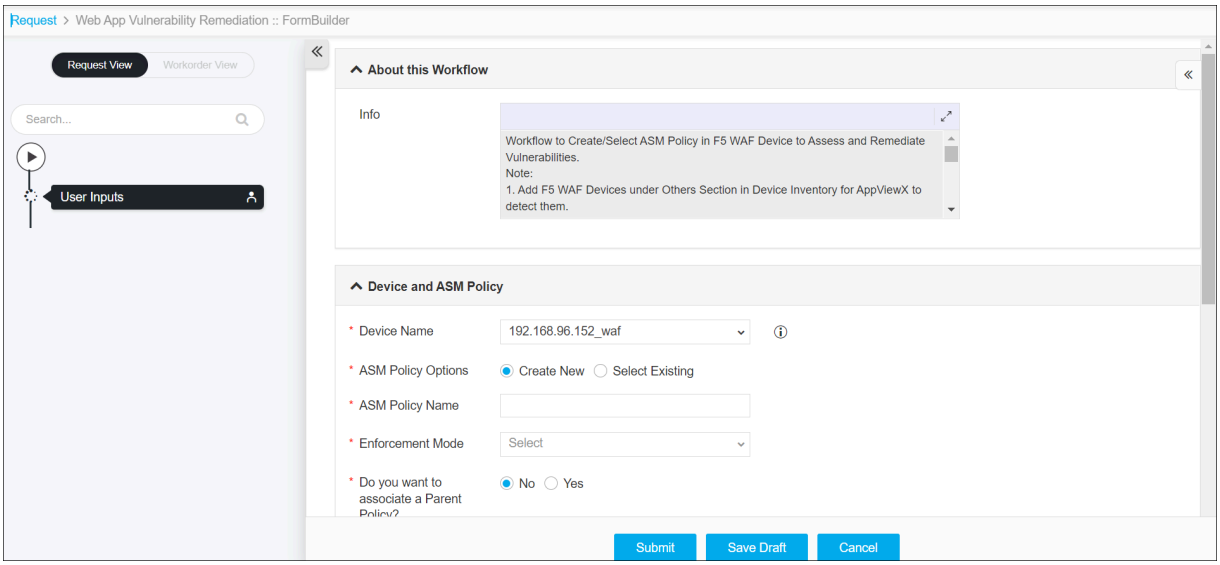
To run this workflow,

1. Go to **Menu** > **Request** > **View/Run**.
   The Workflow Catalog page appears.
2. In the Workflow Catalog page, hover over the **Web App Vulnerability Remediation** workflow.
   The Run and Schedule buttons are shown.



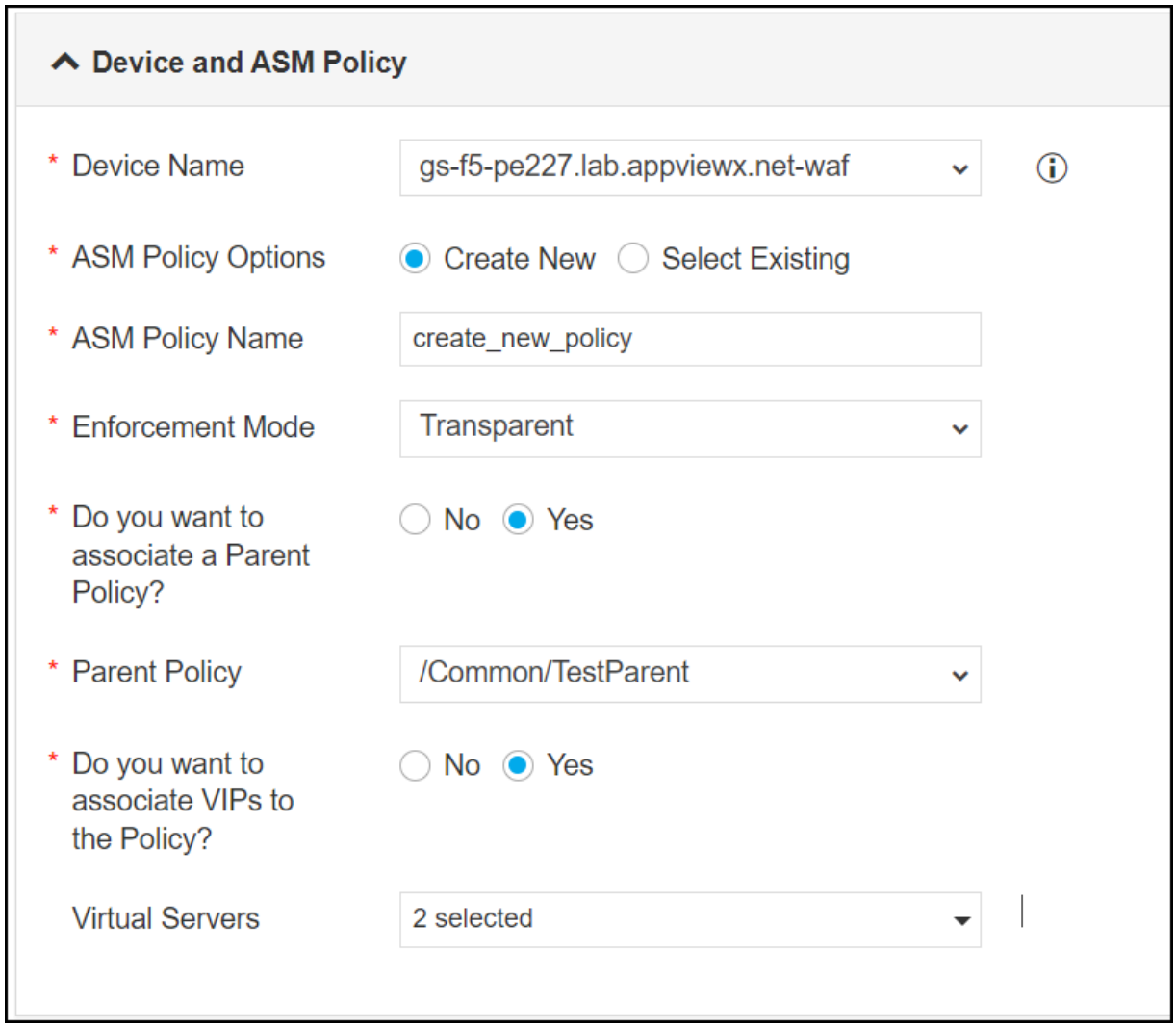
3. Click the Run button.
   The Form Input page opens:

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4. Enter or select the field information in the **Device and ASM Policy** section.

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5. The following table provides the field description of the policy details:

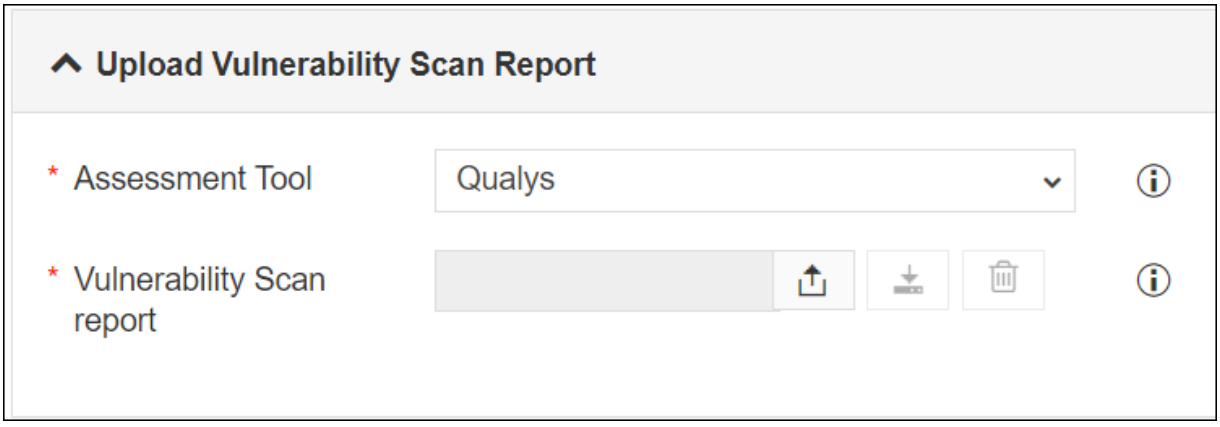
Field	Description
***Device Name**	Select a device from the dropdown list for which the policy has to be created.
***ASM Policy Options**	Options to create a ASM policy. The options are:

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Field	Description

	• **Create New** - select this option to create a policy newly and enter/select the following policy details:
	  • **ASM Policy Name** - enter the name for the policy.
	  • **Enforcement Mode** - select a enforcement mode from the dropdown list.
	  • **Do you want to associate a Parent Policy** - select Yes to associate a parent policy. Otherwise select No (default option).
	  • **Do you want to associate VIPs to the Policy** - select Yes to associate VIPs to the policy, and then select the desired VIPs from the **Virtual Servers** dropdown option. Otherwise select No (default option).
	• **Select Existing** - select this option to use the already created policy, and then select a policy from **ASM Policy** dropdown option.

6. Select the field information in the **Upload Vulnerability Scan Report** section.



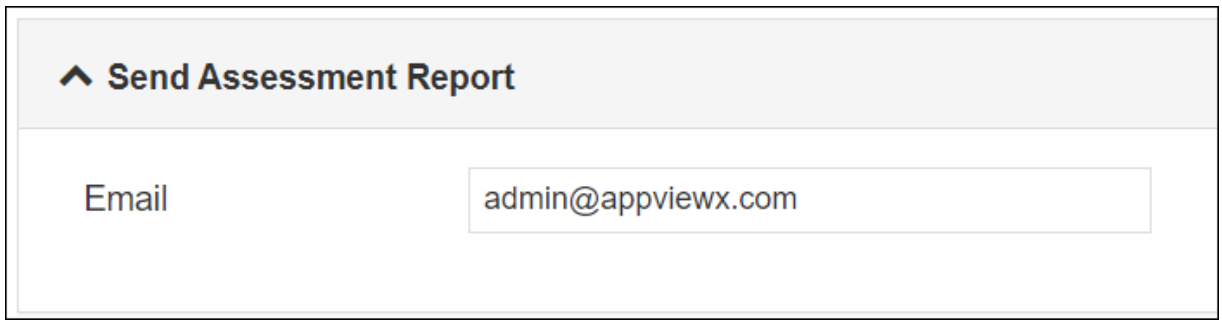
7. The following table provides the field description of **Upload Vulnerability Scan Report**:

Field	Description
***Assessment Tool**	Select a assement tool from the dropdown list.

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Field	Description
***Vulnerability Scan report**	Upload a vulnerability scan report in the .xml format.

8. Enter the email ID in the Email field in **Send Assessment Report** section.



Once the workflow is complete, the generated report will be sent to this email ID. More than one email ID can be added with comma separated.

9. Click the **Submit** button.
The Confirmation popup opens.

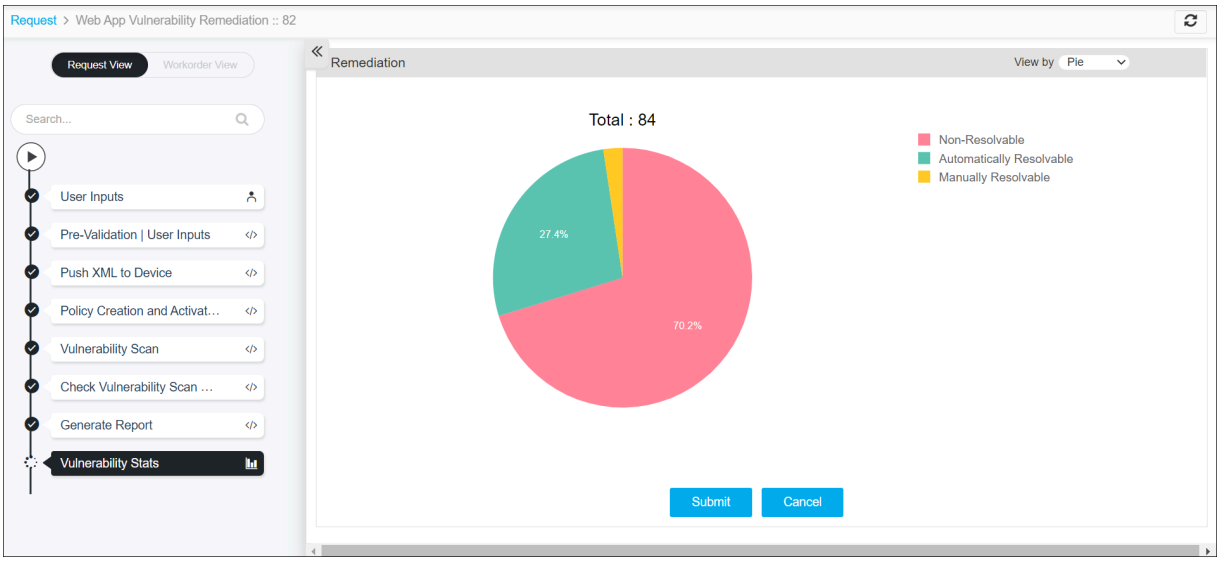
Note:
- If you want to save this form to edit it later, click the **Save Draft** button, and then click **Ok** in the Confirmation popup window. The form will be saved as Open request under Request > My Request.
- If you want to cancel this form, click the **Cancel** button.

10. Click **Ok** to submit the form.
The validation starts automatically and reaches the **Review** stage.

Note:
- If there is any failure at this stage, start a new request by providing the correct data.
- Alternatively, select the failed request and clone it. Update the correct input data in the form input, and submit the workflow again.

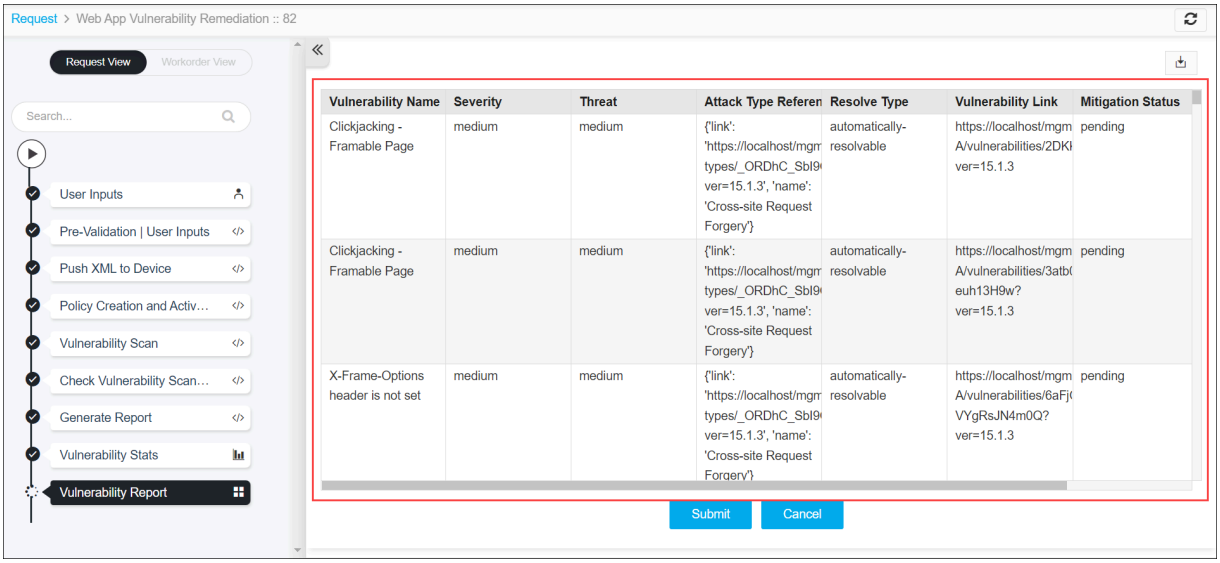
11. View the vulnerability status under the **Vulnerability Stats** tab.

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The view of this report can be changed from Pie chart or Donut view by selecting the option from the View by drop-down option.

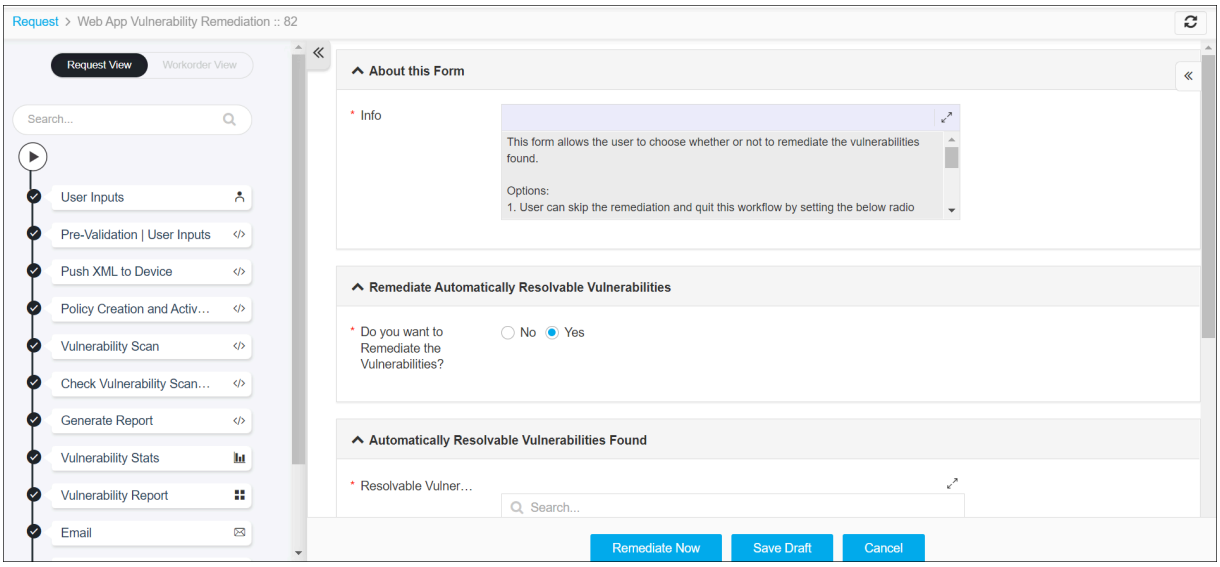
12. Click the **Submit** button.
13. View the vulnerability report under the **Vulnerability Report** tab.



The report can be downloaded by clicking the Download () button.

14. Click the **Submit** button.
15. The workflow reached the **Choice to Remediate** stage. At this stage, you can select option to resolve the vulnerabilities automatically or not.

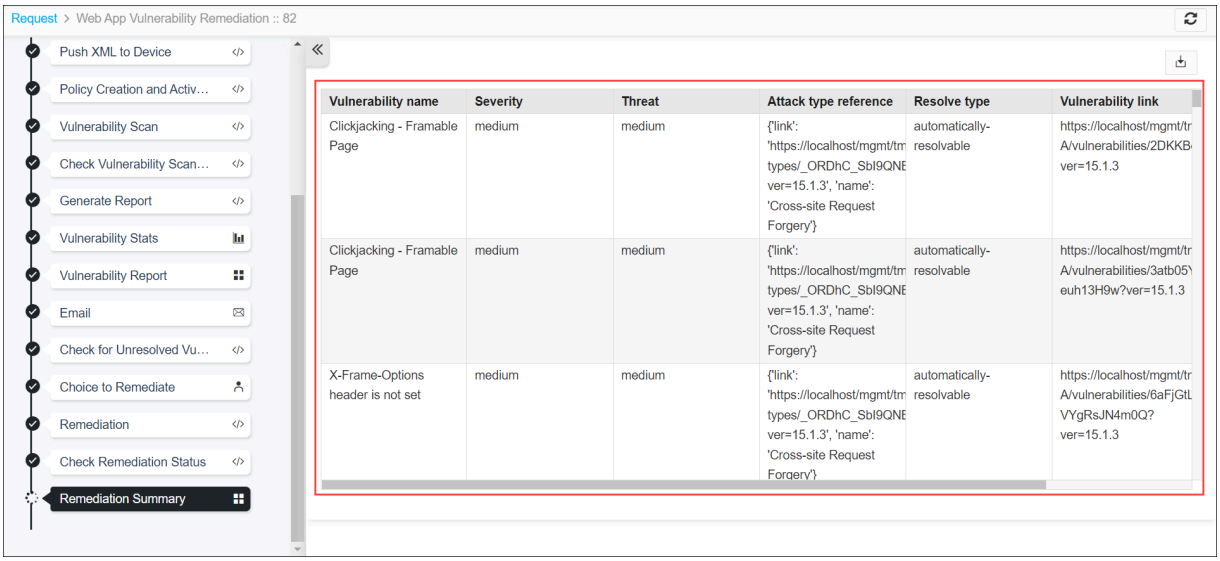
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If you select

- Yes option, the identified vulnerabilities will be resolved.
- No option, the vulnerabilities will not be resolved.

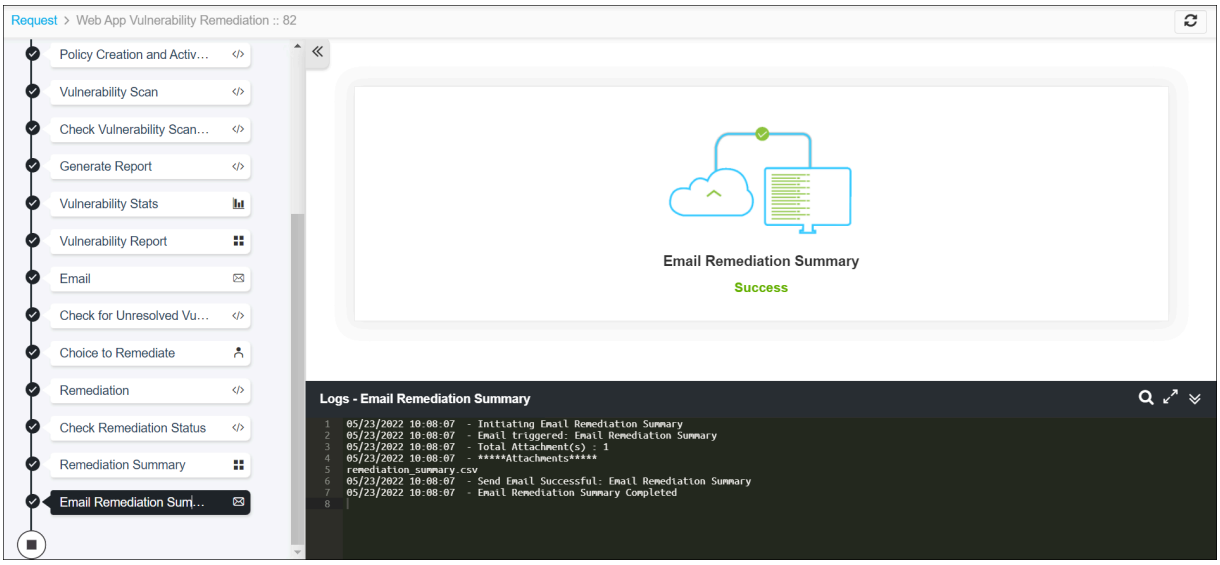
16. Click the **Remediate Now** button.
17. View the remediation summary under the **Remediation Summary** tab.



The report can be downloaded by clicking the Download ( ) button.

18. It takes a while for the workflow completion and the email is triggered with remediation report.

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Note: The stages of the request are shown in the left side of the screen. To view a particular stage of the request, click the respective stage.

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Chapter 11: F5 BIG-IP ZTP

- HA
- Standalone

HA

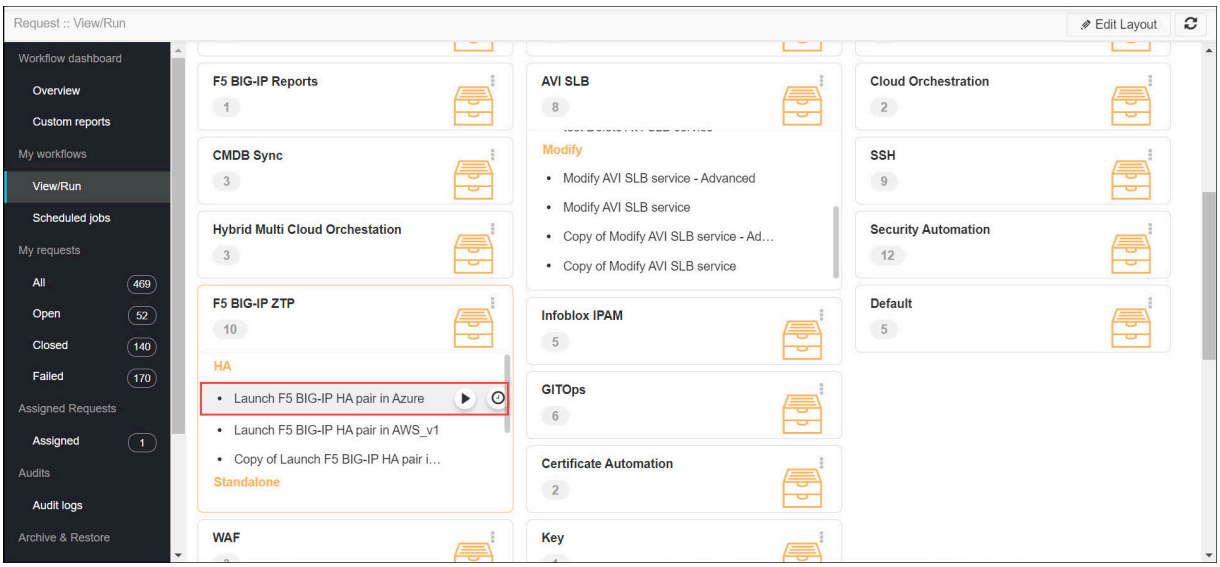
- Launch F5 BIG-IP HA Pair in Azure

Launch F5 BIG-IP HA Pair in Azure

This workflow launches a failover High Availability (HA) Multi NIC F5 BIG-IP Virtual Machines on Azure. The existing VNET and Subnet are utilised to create two F5 devices with Standby and Active state on Azure. AppViewX will check if the deployment successfully completes. Once done, the device(s) details are fetched. The failover F5 devices are added into AppViewX and Email will be sent to the user. Option to do basic provisioning to the newly added F5 device. Active device will be chosen for the same.

To run this workflow,

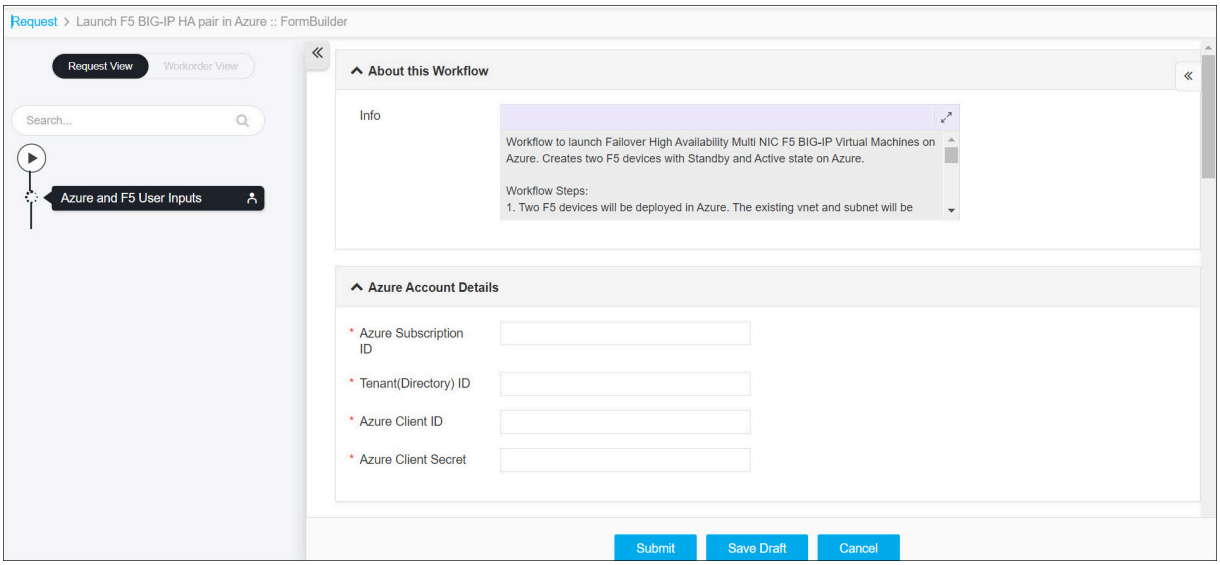
1. Go to **Menu** > **Request** > **View/Run**.
   The Workflow Catalog page appears.
2. In the Workflow Catalog page, hover over the **Launch F5 BIG-IP HA Pair in Azure** workflow.
   The Run and Schedule buttons are shown.



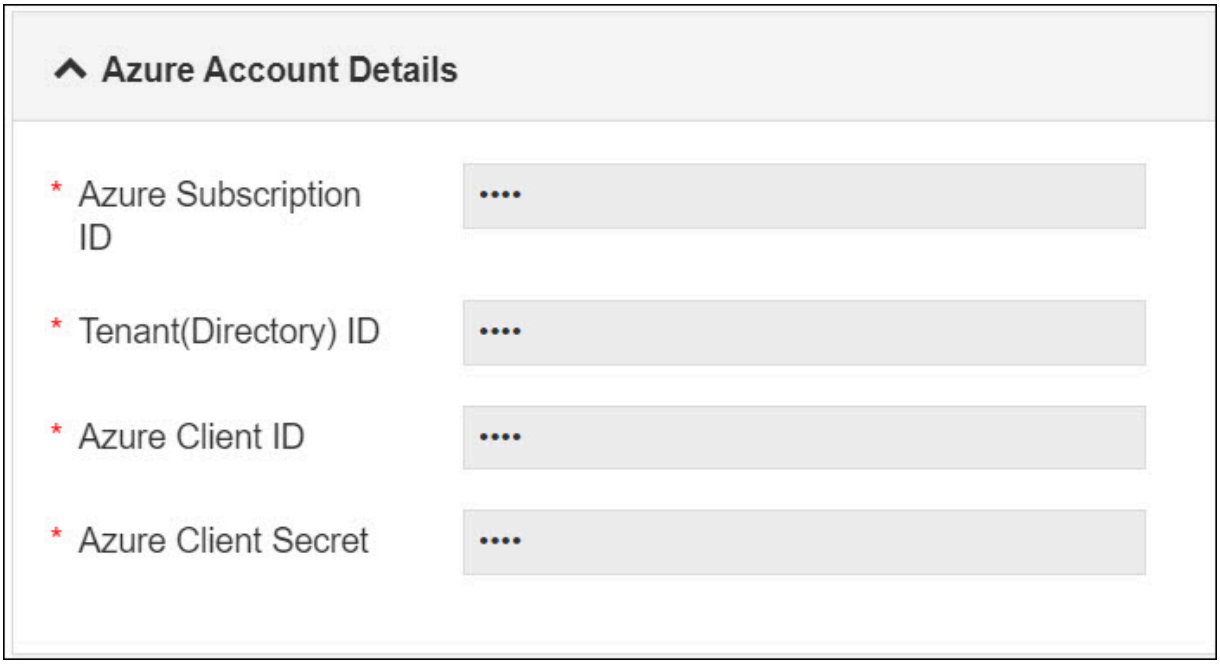
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3. Click the Run button.

   The Form Input page opens:



4. Enter or select the field information in the **Azure Account Details** section of Form Input.



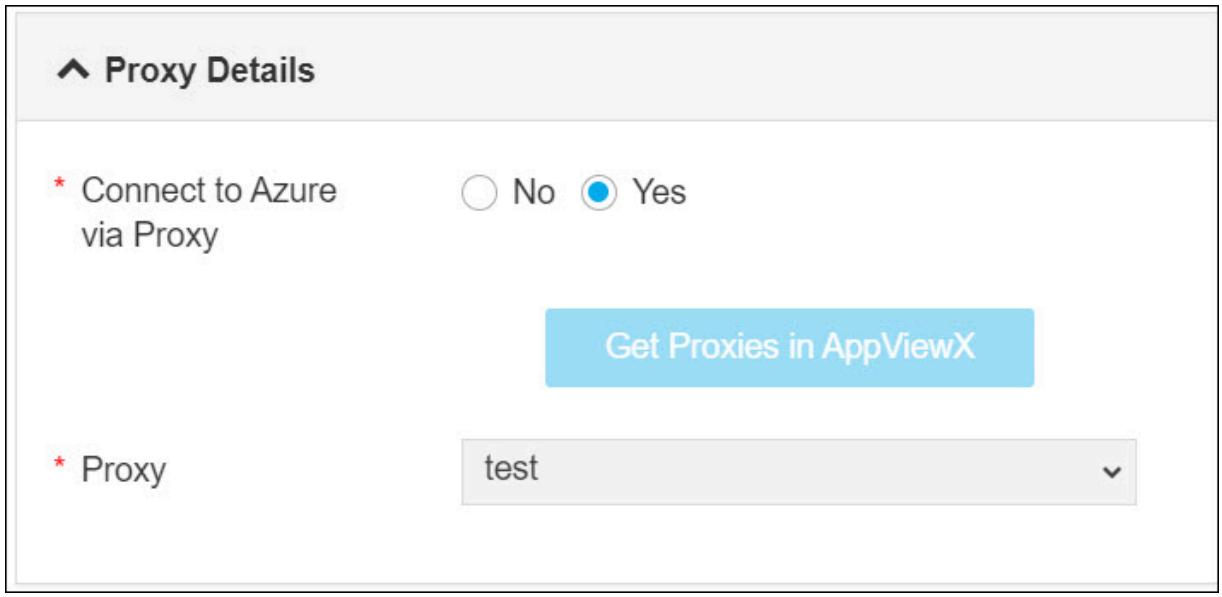
> **Note:** The entered tenant/application ID must have contributor/owner access to the Azure application provided.

5. The following table provides the field description for the **Azure Account Details** section of Form Input.

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Field	Description
Azure Subscription ID	Enter the subscription ID.
Tenant(Directory) ID	Enter Tenant ID.
Azure Client ID	Enter the client ID.
Azure Client Secret	Enter the client secret key.

6. Enter or select the field information in the **Proxy Details** section of Form Input.



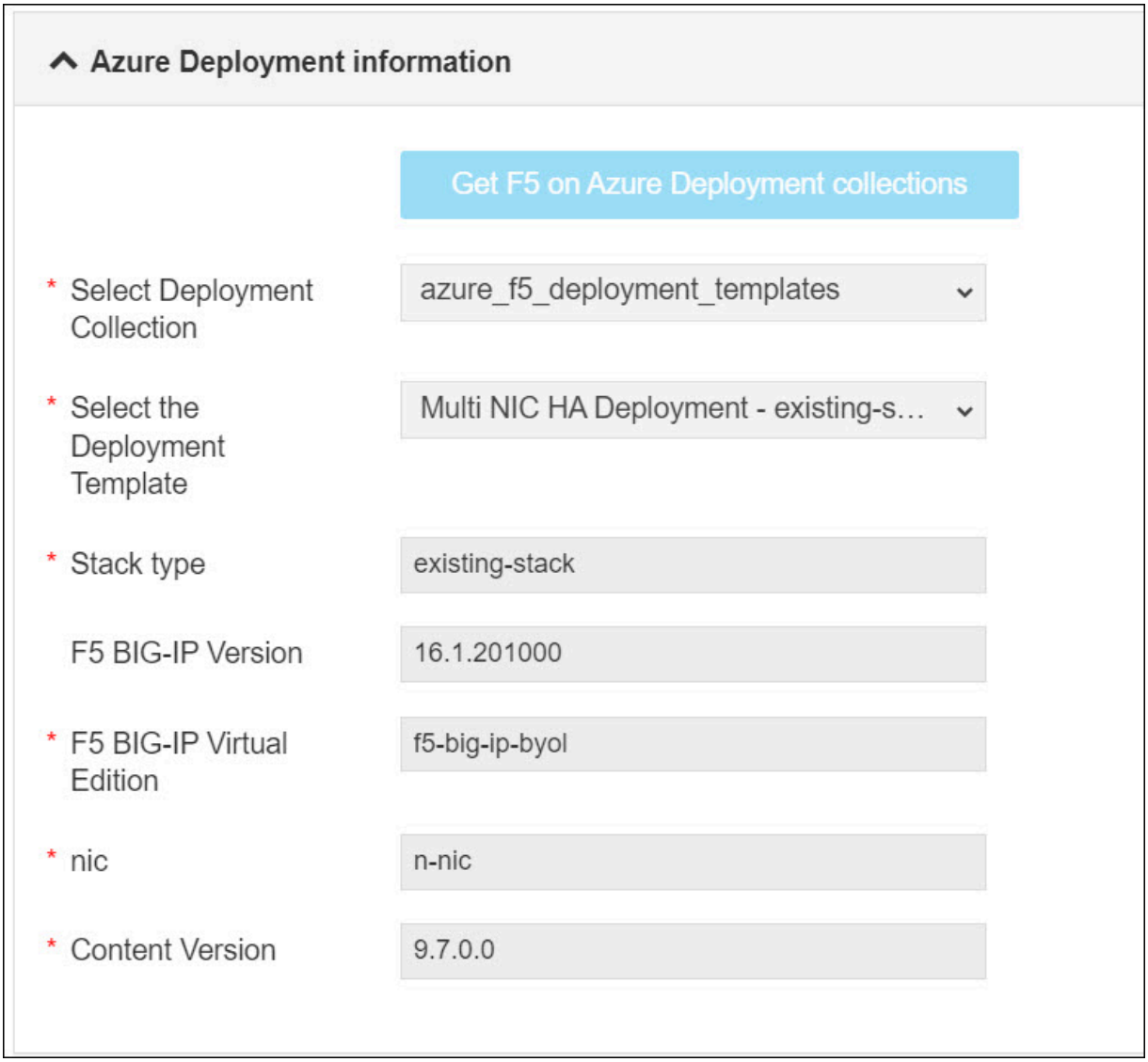
7. The following table provides the field description for the **Proxy Details** section of Form Input.

Field	Description
Connect to Azure via Proxy	Allows to make connections via Proxy,. The options are: • **No** (default) - select this option to connect with Azure without proxy (Internet connection must be required). • **Yes** - select this option to connect with Azure via proxy, then click the **Get Proxies in Appviewx** button to fetch the proxy servers configured in AppViewX to be displayed in the **Proxies** dropdown list.

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Field	Description
***Proxy**	Select a proxy servers configured in AppViewX from the dropdown list.

8. Enter or select the field information in the **Azure Deployment information** section of Form Input.



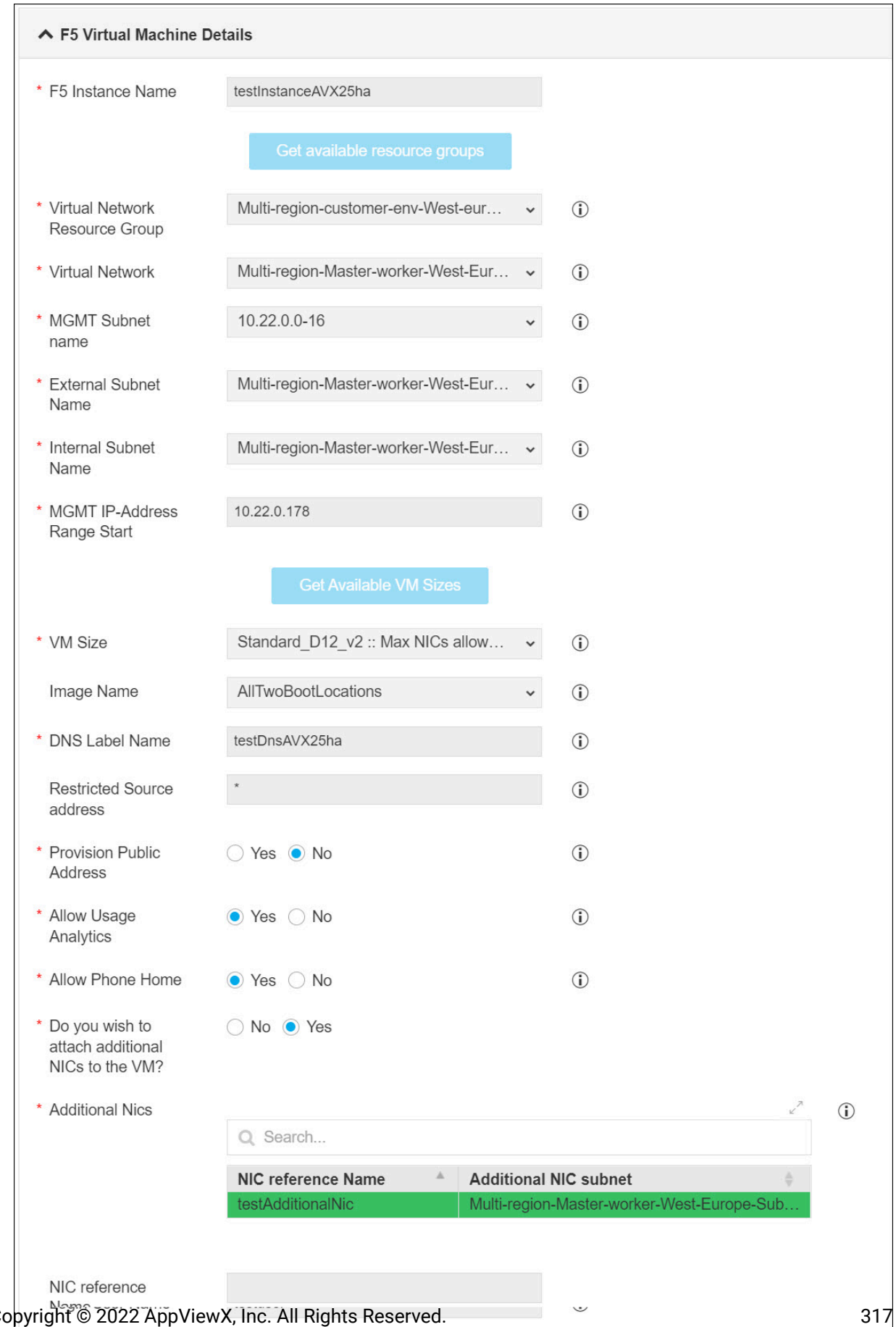
9. The following table provides the field description for the **Azure Deployment information** section of Form Input.

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Field	Description
Get F5 on Azure Deployment collections	Click the **Get F5 on Azure Deployment collections** button to get the deployment templates from the AppViewX Collection.
Select Deployment Collection	Select a deployment collection from the dropdown list.
Select the Deployment Template	Select a deployment template type from the dropdown list.
Stack type	It is non editable field and stack type will be auto-filled from the selected deployment template.
F5 BIG-IP Version	It is non editable field and F5 BIG IP version will be auto-filled from the selected deployment template.
F5 BIG-IP Virtual Edition	It is non editable field and F5 BIG IP virtual edition will be auto-filled from the selected deployment template.
nic	Add n number of NICs using this template.
Content Version	It is non-editable field and content version will be auto-filled from the selected deployment template.

10. Enter or select the field information in the **F5 Virtual Machine Details** section of Form Input.

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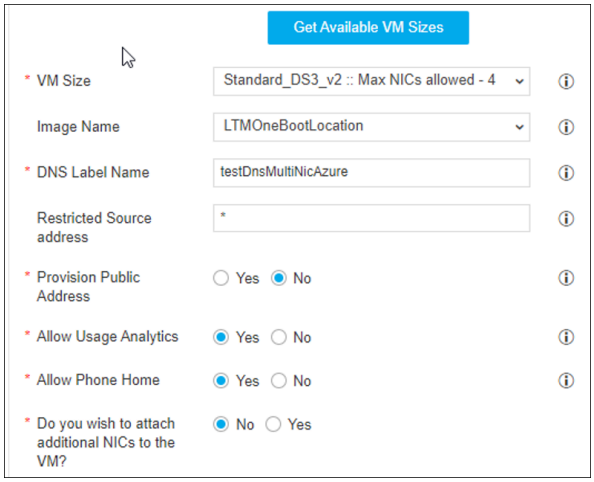


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11. The following table provides the field description for the **F5 Virtual Machine Details** section of Form Input.

Field	Description
F5 Instance Name	Name of the F5 device name which was provided for a device while onboarding it in AppViewX Inventory.
Get available resource groups	Click this button to fetch the Azure resource groups of virtual network.
Virtual Network Resource Group	Select a virtual network resource group from the dropdown list.
Virtual Network	Select a virtual network from the resource group from the dropdown list. **Note:** Make sure that selected the VNET/ Management Subnet has connection established from and to AppViewX, only then the device can be communicated from AppViewX.
mgmt subnet name	Select a unique management subnet name from the dropdown list. Your subnet must have access to the internet.
External subnet name	Select an external subnet name.
Internal subnet name	Select an Internal subnet name.
mgmt IP-Address	Management IP address to use for the BIG-IP management IP address. By default, this field is filled with DYNAMIC to use a dynamically assigned IP address. Else provide an IP address.
Get Available VM Sizes	Click this button to fetch the available VM sizes.

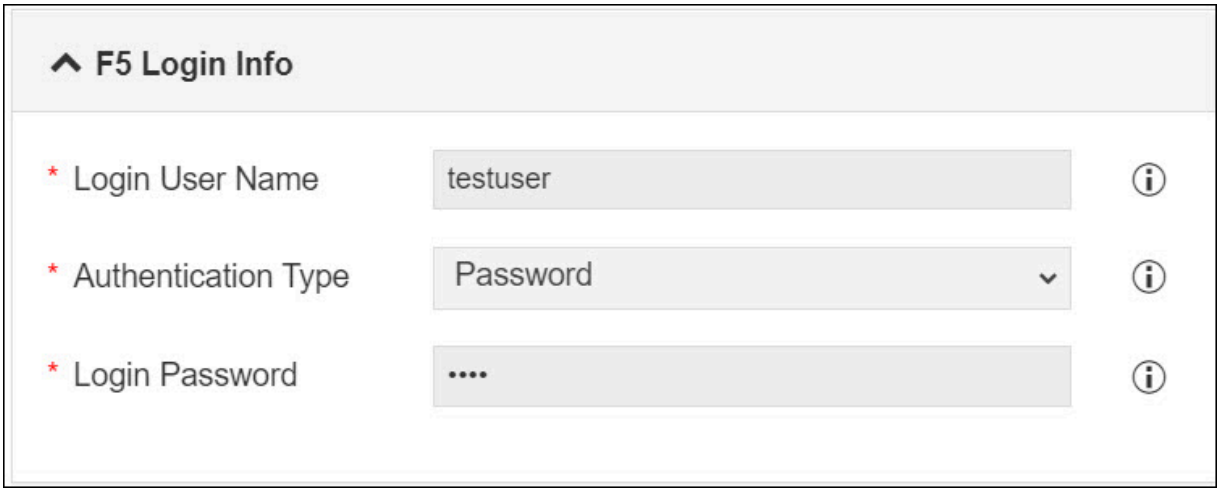
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Field	Description
	
VM Size	Select the instance size of the virtual machine from the dropdown list.
Boot Location Type	The options are displayed in this field as it is available in the Azure marketplace for F5. Select a boot location type based on the requirement.
DNS Label Name	Enter a unique DNS Name for the Public IP address used to access the Virtual Machine.
Restricted Source address	This field restricts management access to a specific network or address. Enter an IP address or address range in CIDR notation or asterisk for all sources.
Provision Public Address	Provision to create the Public IP addresses for BIG-IP Management traffic. These addresses will be configured directly on the Azure network interfaces.
Allow Usage Analytics	This deployment can send anonymous template statistics to F5 to help us determine how to improve our solutions. If you select **No**, statistics are not sent.
Allow Phone Home	This deployment can provide F5 with high-level device use information to optimize development

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Field	Description
	resources. If you select **No** the information is not sent.
Do you wish to attach additional NICs to the VM?	Click Yes to attach additional NICs to the VM otherwise select No.

12. Enter or select the field information in the **F5 Login Info** section of Form Input.

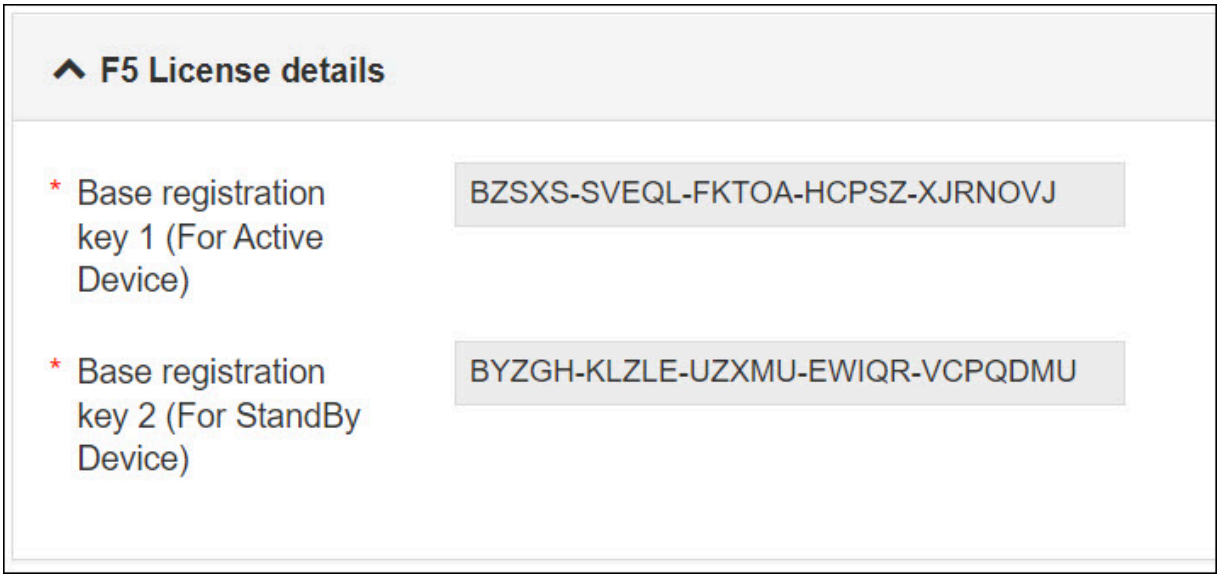


13. The following table provides the field description for the **F5 Login Info** section of Form Input.

Field	Description
Login User Name	Enter the user name for the virtual machine. **Note:** The user name must not be "admin".
Authentication Type	Type of authentication to use on the Virtual Machine, password based authentication or key based authentication.
Login Password	Enter the password with the following combination: Minimum eight characters, at least one uppercase letter, one lowercase letter, one number and one special character.

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14. Enter or select the field information in the **F5 License details** section of Form Input.



15. The following table provides the field description for the **EBS Volume Details** section of Form Input.
16. The following table provides the field description for the **F5 License details** section of Form Input.

Field	Description
Do you wish to activate license for the F5 device?	The options for activating the license: • **No** (default) - if you select this option, you cannot access F5 modules. • **Yes** - if you select this option, the Base registration key is enabled. Enter the registration key to activate the license.

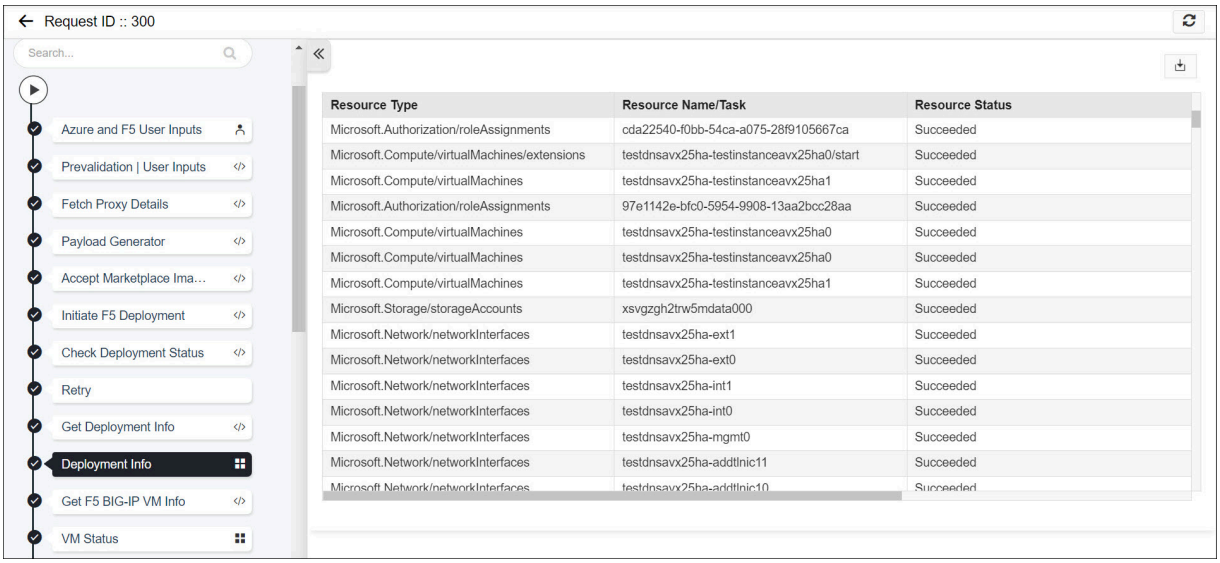
17. Click the **Submit** button.
    The Confirmation popup opens.

> **Note:**
> • If you want to save this form to edit it later, click the **Save Draft** button, and then click **Ok** in the Confirmation popup window. The form will be saved as Open request under **Request** > **My Request**.
> • If you want to cancel this form, click the **Cancel** button.

18. Click **Ok** to submit the form.

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The validation starts automatically and reaches the **Deployment Info** stage. In this page, the host details are shown. If required, you can download the details in the .csv or .xls format by clicking the download  button.



19. Click the **Submit** button to submit the form.

    The validation starts automatically and reaches the **VM Status** stage.



20. Click **Submit** to submit the form.

    The validation starts automatically and reaches the **High Availability F5 Devices Info** stage.

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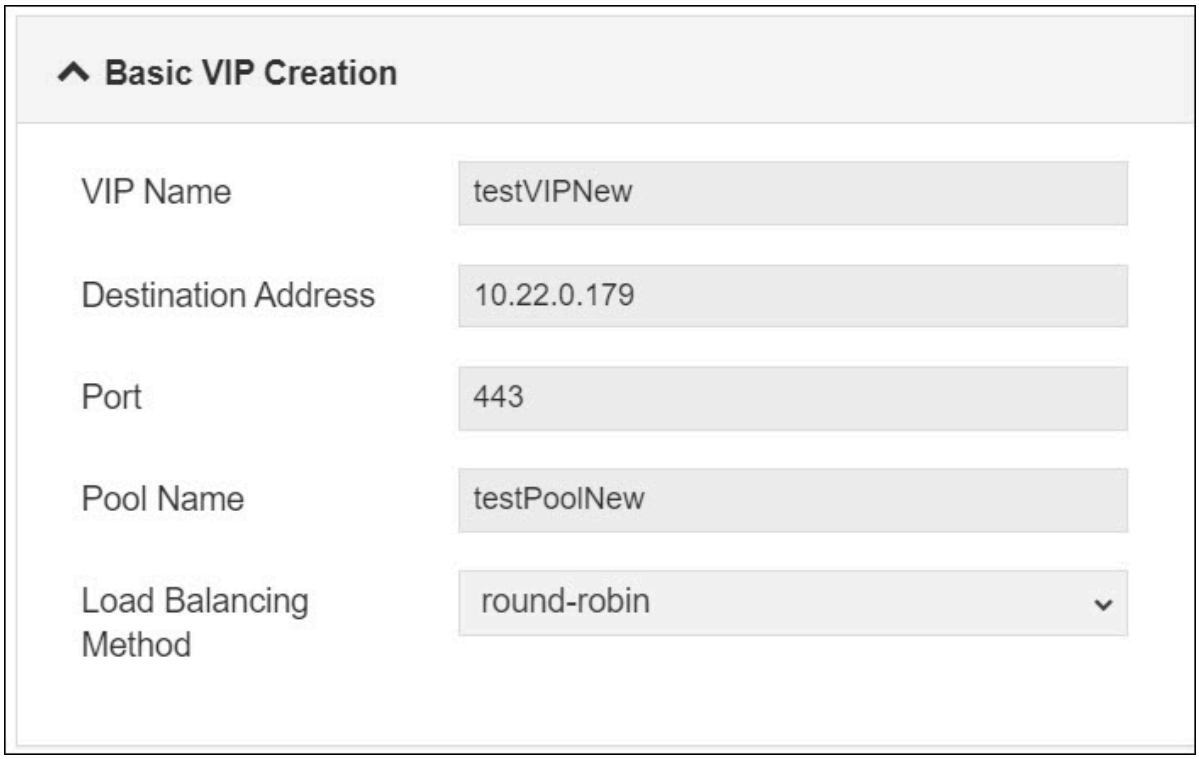


21. Click **Submit** to submit the form.

    The validation starts automatically and reaches the **Basic Provisioning** stage.

    In this page, provide the object details that can be provisioned in F5 BIG-IP as follows:

    • Enter or select the field information in the **Basic VIP Creation** section.



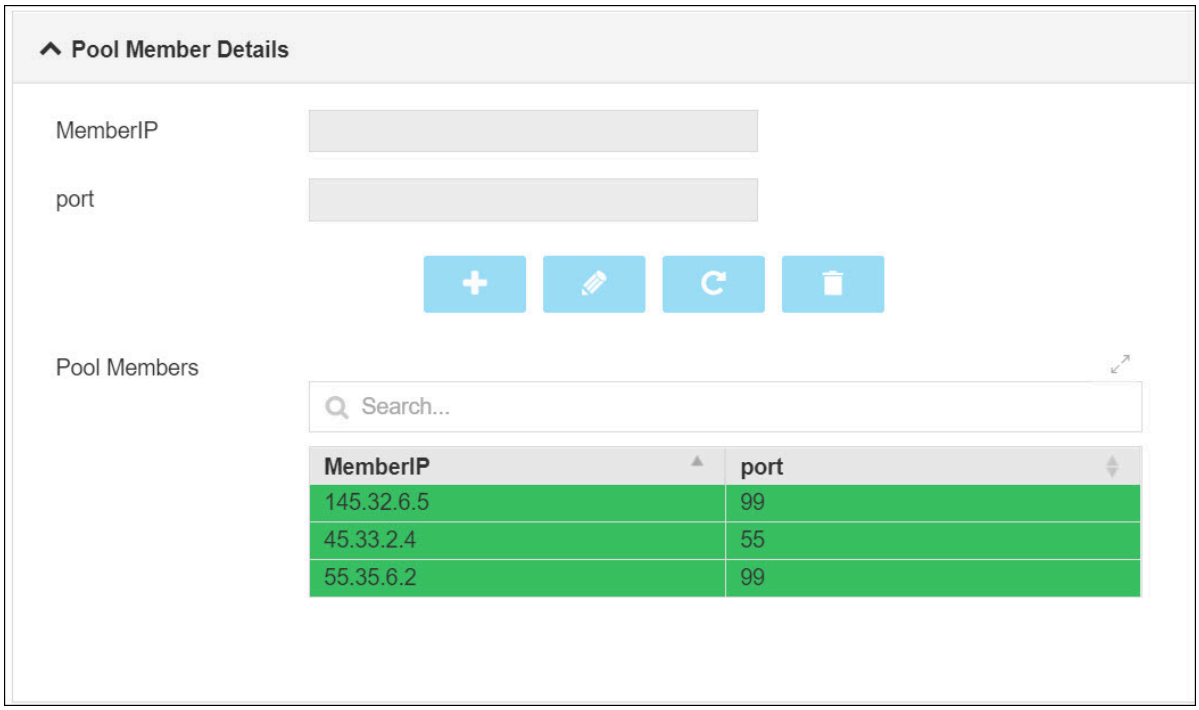
    The following table provides the field description for creating basic VIP:

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Field	Description
VIP Name	Enter the name of the VIP.
Destination Address	Enter the destination IP address.
Port	Enter a port.
Pool Name	Enter the pool name.
Load Balancing Method	The load balancing method is used to distribute traffic across pool in this VIP. The default is round-robin. The methods are: • **round-robin** - the system selects the pools sequentially. • **least-connection-node** - The system passes a new connection to the node that has the least number of current connections out of all pools of which a node is a member. This method works best in environments where the servers or other equipment you are load balancing have similar capabilities. This is a dynamic load balancing method, distributing connections based on various aspects of real-time server performance analysis, such as the number of current connections per node, or the fastest node response time. • **least-connection-member** - The system passes a new connection to the node that has the least number of current connections in the pool. This method works best in environments where the servers or other equipment you are load balancing have similar capabilities. This is a dynamic load balancing method, distributing connections based on various aspects of real-time server performance analysis, such as the current number of connections per node or the fastest node response time. • **ratio-member** - The number of connections that each machine receives over time is proportionate to a ratio weight you define for each machine within the pool.

• Enter or select the field information in the **Pool Member Details** section.

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The following table provides the field description of the pool member details:

Field	Description
Member IP	Enter the member IP.
Port	Enter a port.
Pool Members	Click the add button to add the pool members to the table. After adding the pool member details to the list, you can manage them.

- Enter or select the field information in the **Monitor Details** section.

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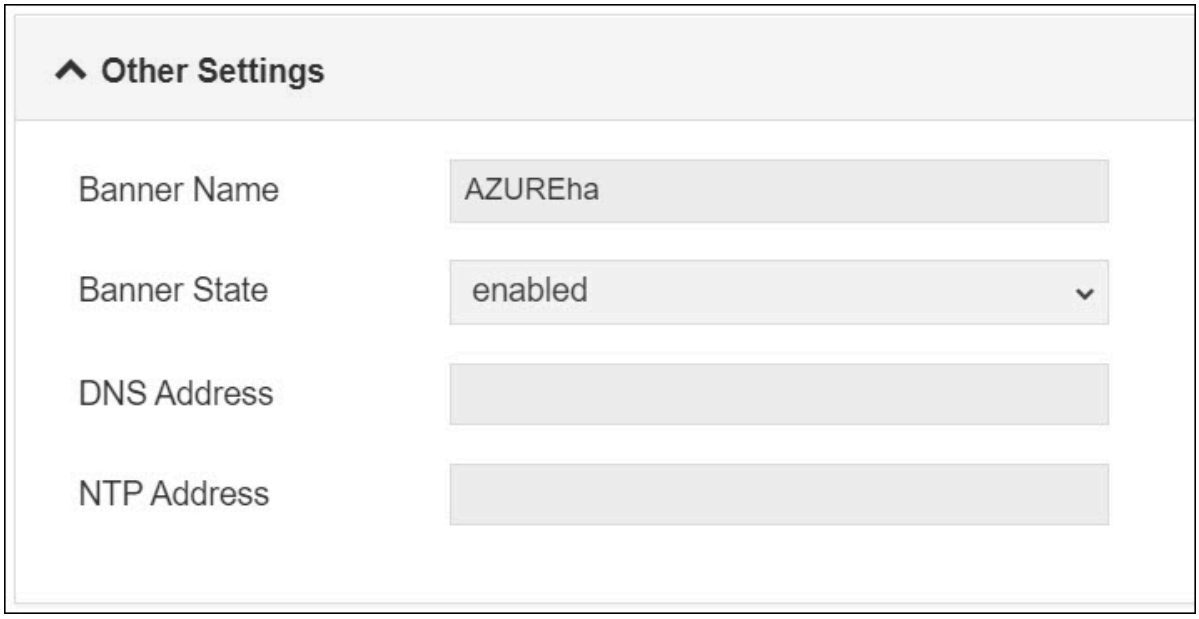


The following table provides the field description of the monitor details:

Field	Description
Monitor Type	Select the health monitors that are available to add for the pool: • HTTP • HTTPS • TCP • TCPHALFOPEN • Gatewaylcmp
Monitor Name	Enter the name for the monitor.
Send String	The text string that the monitor sends to the target object. You must include \r\n at the end of a non-empty Send String. To retrieve a specific page from a website, specify a fully qualified path name.
Receive String	The regular expression representing the text string that the monitor looks for in the returned resource. The most common receive expressions contain a text string that is included in an HTML file on your site. The text string can be regular text, HTML tags, or image names, and the associated operation is not case-sensitive.

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• Enter or select the field information in the **Other Settings** section.

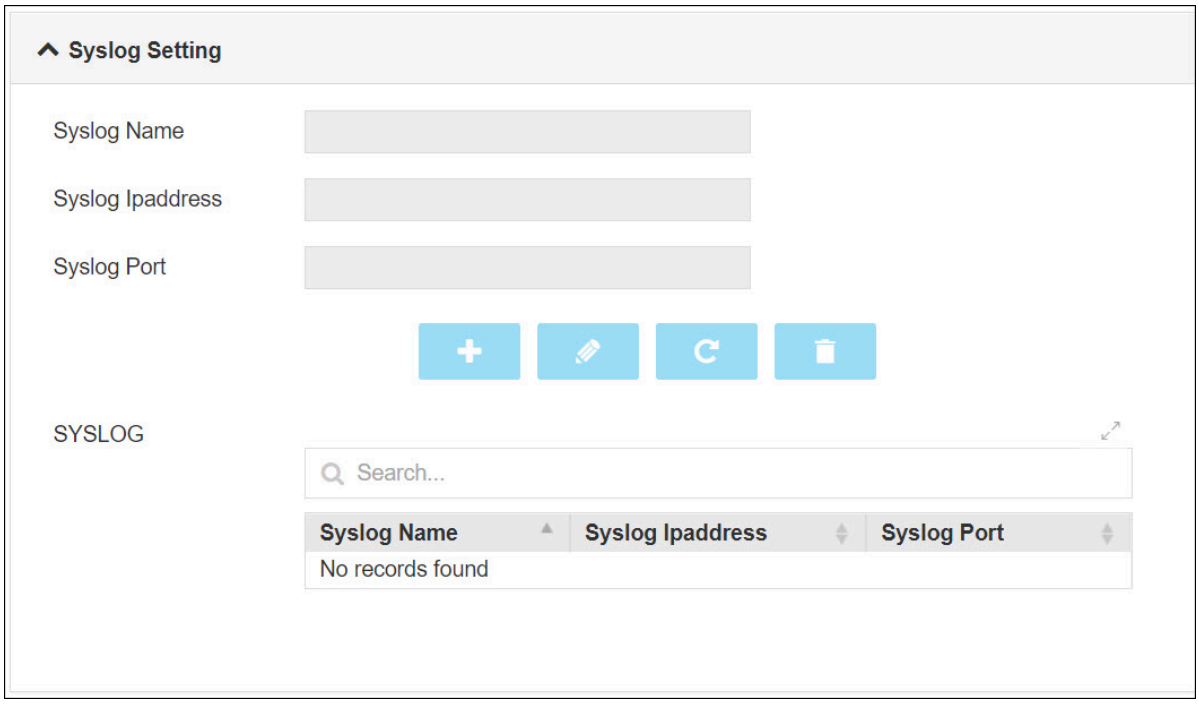


The following table provides the field description for the other settings:

Field	Description
Banner Name	Enter the name for banner.
Banner State	Select a state for the banner. The possible states are: • enabled • disabled
DNS Address	Enter the DNS address.
NTP Address	Enter the NTP address.

• Enter or select the field information in the **Syslog Setting** section.

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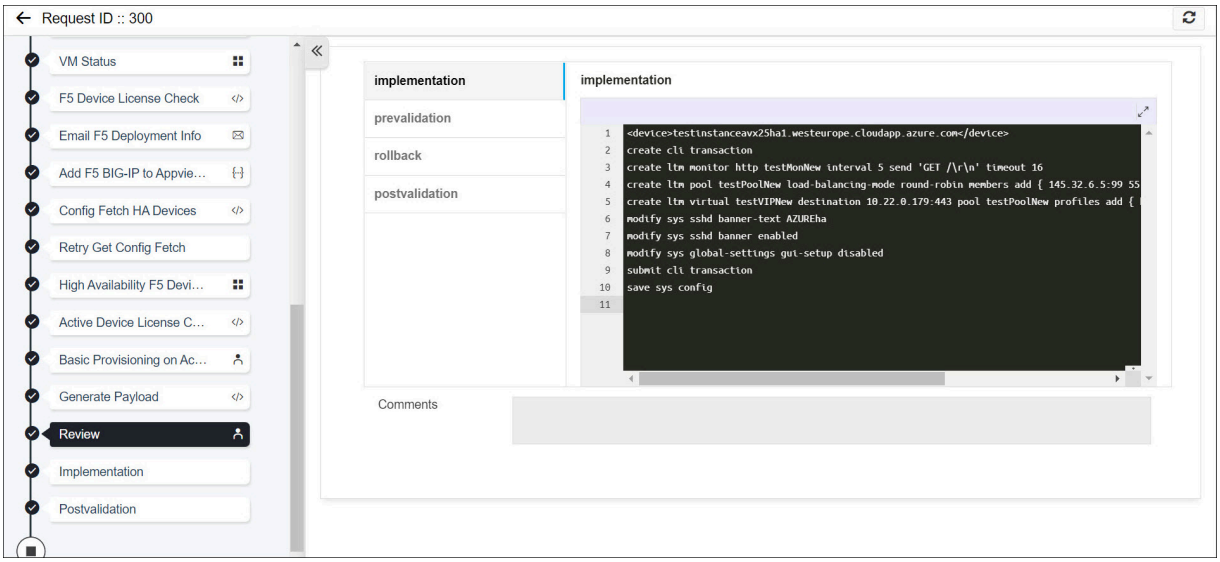
The following table provides the field description for the syslog setting:

Field	Description
Syslog Name	Enter the name for syslog.
Syslog Ipddress	Enter the syslog IP address.
Syslog Port	Enter the syslog port.
SYSLOG	Click the add button to add the syslog settings to the list. After adding the syslog settings to the list, you can manage them.

22. Click **Submit** to submit the form.

    The validation starts automatically and reaches the **Review** stage.

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23. Review the input data under the **implementation**, **rollback**, and **postvalidation** tabs.
24. After the review, click the **Submit** button.

    The Confirmation popup opens. It takes a while to complete the request.

> **Note:** To stop running the workflow creation, click **Cancel** .

> **Note:** The credentials to access BIG-IP Configuration Utility are:
>
> **Username:** admin
>
> **Password:** Contact the AppViewX support team.

Standalone

- Launch F5 Standalone Single NIC in Azure
- Launch F5 Standalone Multi NIC in Azure

Launch F5 Standalone Single NIC in Azure

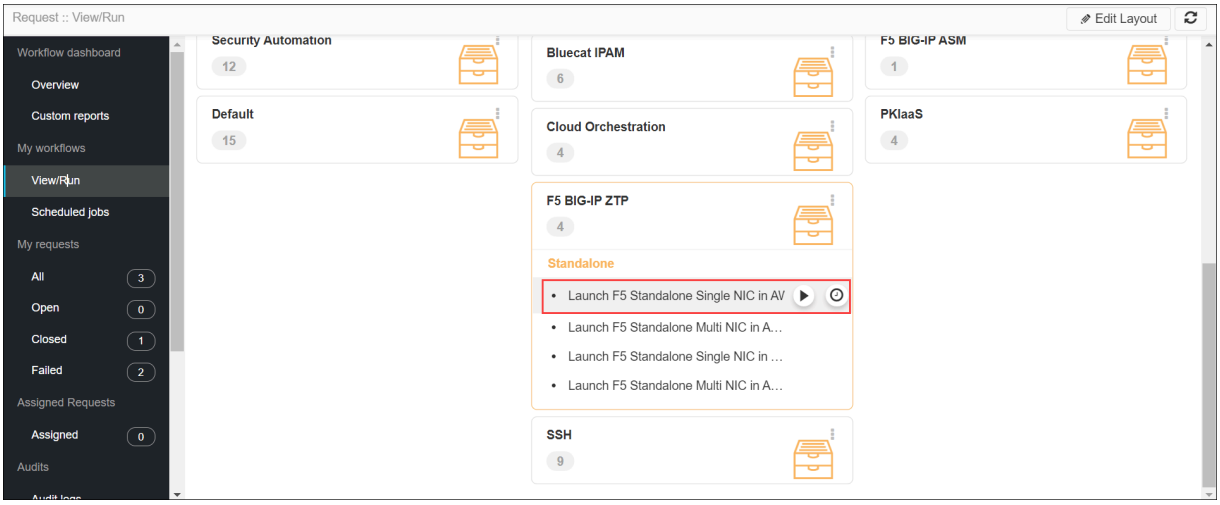
This workflow launches a Standalone Single-NIC F5 BIG-IP in Azure Cloud. A F5 device will be deployed in Azure. If new-stack template is selected, then vnets and subnets will be created. If existing-stack template is selected, the existing vnet and subnet will be utilized. AppViewX checks if the deployment successfully completed. Once completed, the device details are fetched. The F5 device is added into

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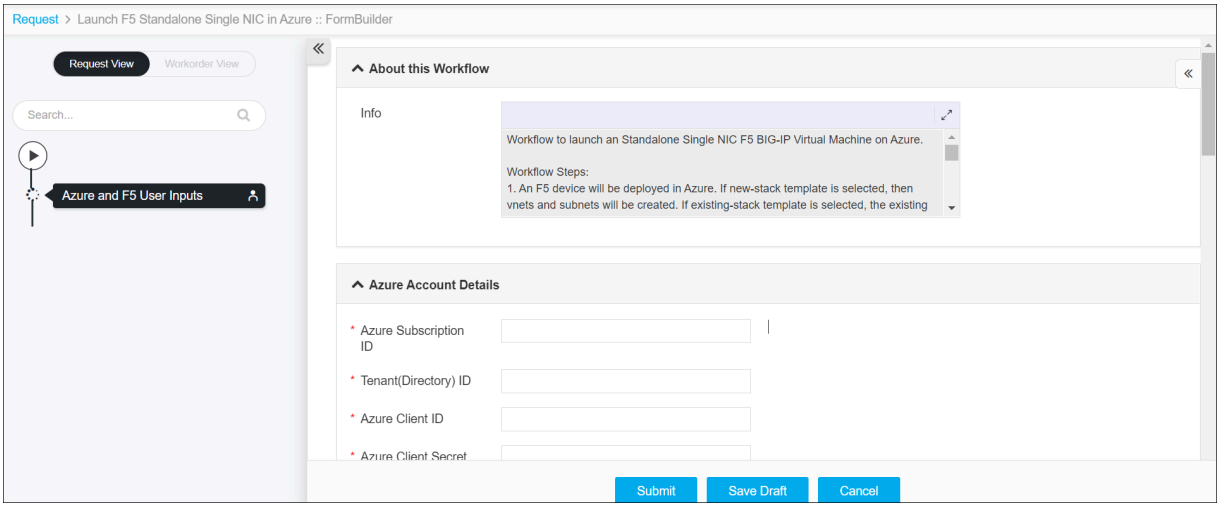
AppViewX and Email will be sent to the user. There is an option to do basic provisioning to the newly added F5 device.

To run this workflow,

1. Go to **Menu** > **Request** > **View/Run**.
   The Workflow Catalog page appears.
2. In the Workflow Catalog page, hover over the **Launch F5 Standalone Single NIC in Azure** workflow.
   The Run and Schedule buttons are shown.

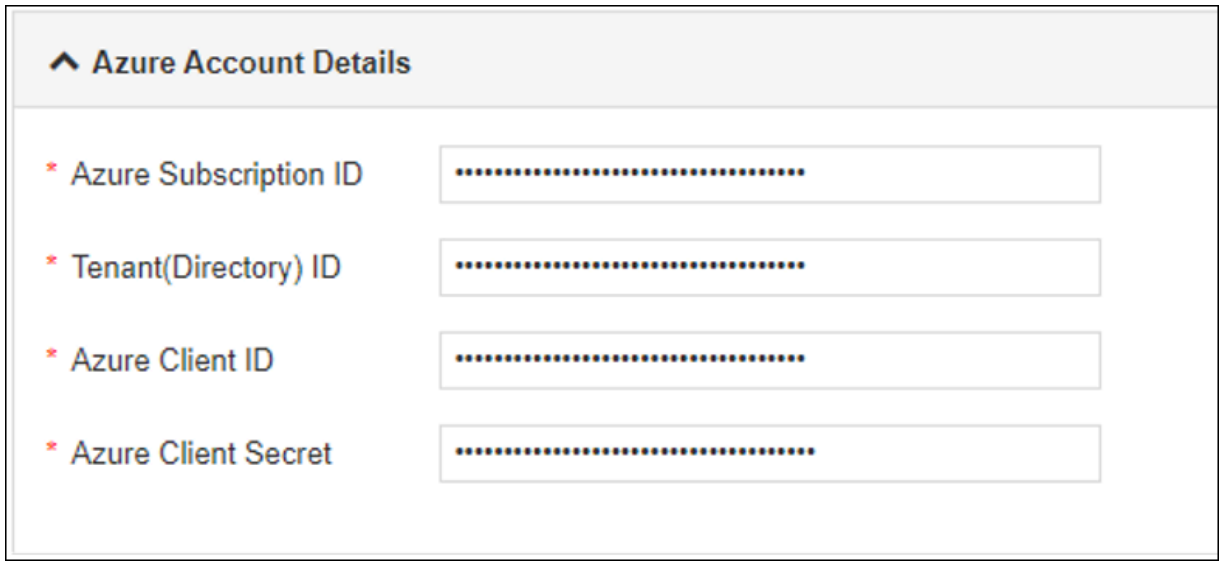


3. Click the Run button.
   The Form Input page opens:



4. Enter or select the field information in the **Azure Account Details** section of Form Input.

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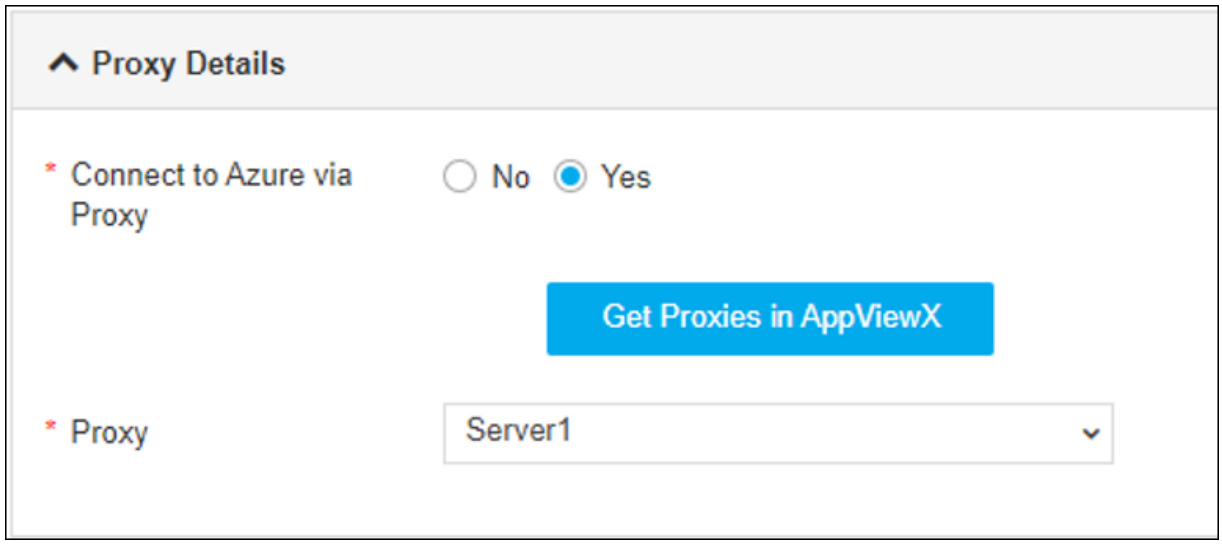
5. The following table provides the field description for the **Azure Account Details** section of Form Input.

> **Note:** The entered tenant/application ID must have contributor/owner access to the Azure application provided.

Field	Description
Azure Subscription ID	Enter the subscription ID.
Tenant(Directory) ID	Enter Tenant ID.
Azure Client ID	Enter the client ID.
Azure Client Secret	Enter the client secret key.

6. Enter or select the field information in the **Proxy Details** section of Form Input.

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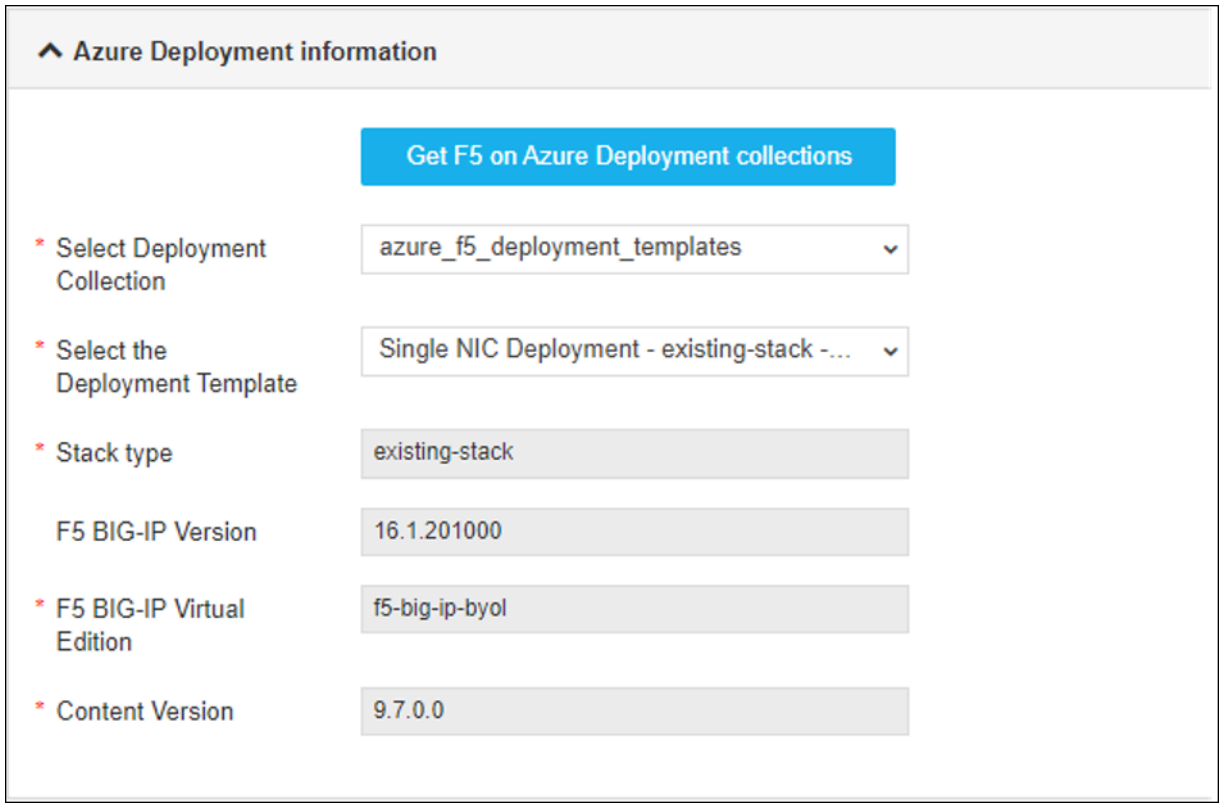


7. The following table provides the field description for the **Proxy Details** section of Form Input.

Field	Description
***Connect to Azure via Proxy**	Allows to connect with Azure via proxy or not. The options are: • **No** (default) - select this option to connect with Azure without proxy (Internet connection must be required). • **Yes** - select this option to connect with Azure via proxy, then click the **Get Proxies in Appviewx** button to fetch the proxy servers configured in AppViewX to be displayed in the **Proxies** dropdown list.
***Proxy**	Select a proxy servers configured in AppViewX from the dropdown list.

8. Enter or select the field information in the **Azure Deployment information** section of Form Input.

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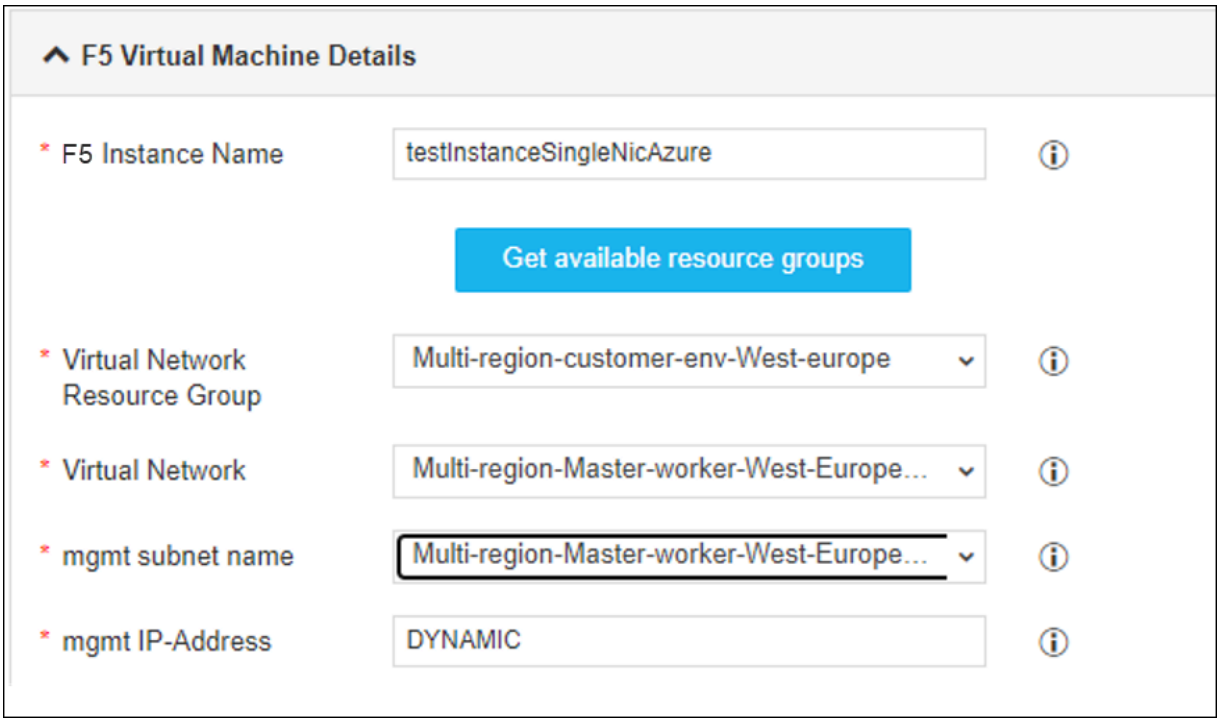
9. The following table provides the field description for the **Azure Deployment information** section of Form Input.

Field	Description
Get F5 on Azure Deployment collections	Click the **Get F5 on Azure Deployment collections** button to get the deployment templates from the AppViewX Collection.
Select Deployment Collection	Select a deployment collection from the dropdown list.
Select the Deployment Template	Select a deployment template type from the dropdown list.
Stack type	It is non editable field and stack type will be auto-filled from the selected deployment template.
F5 BIG-IP Version	It is non editable field and F5 BIG IP version will be auto-filled from the selected deployment template.

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Field	Description
F5 BIG-IP Virtual Edition	It is non editable field and F5 BIG IP virtual edition will be auto-filled from the selected deployment template.
Content Version	It is non editable field and content version will be auto-filled from the selected deployment template.

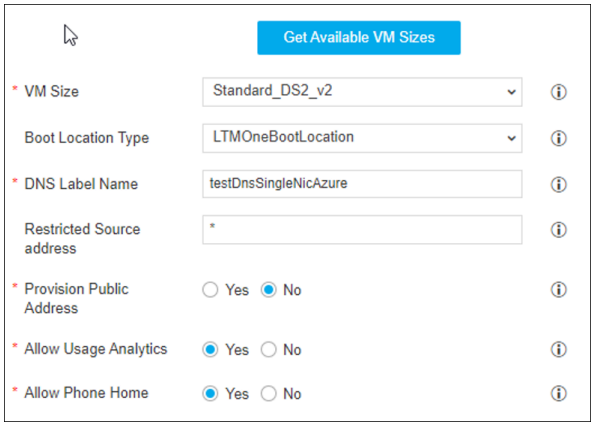
10. Enter or select the field information in the **F5 Virtual Machine Details** section of Form Input.



11. The following table provides the field description for the **F5 Virtual Machine Details** section of Form Input.

Field	Description
F5 Instance Name	Name of the F5 device/Azure instance which was provided for a device while onboarding it in AppViewX Inventory.
Get available resource groups	Click this button to fetch the Azure resource groups.

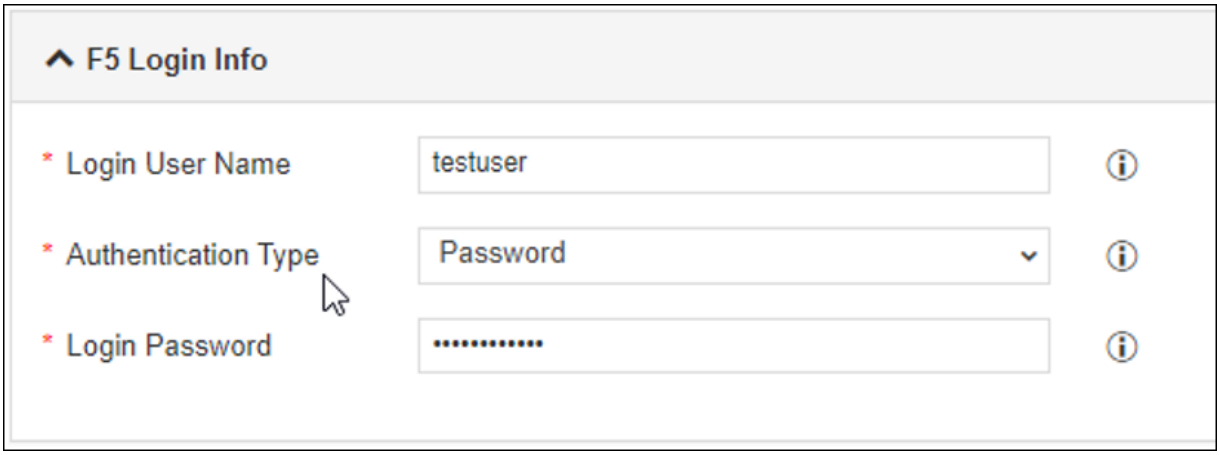
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Field	Description
Virtual Network Resource Group	Select a virtual network resource group from the dropdown list.
Virtual Network	Select a virtual network from the resource group from the dropdown list.
mgmt subnet name	Select a unique management subnet name from the dropdown list. Your subnet must have access to the internet. **Note:** Make sure that selected the VNET/ Management Subnet has connection established from and to AppViewX, only then the device can be communicated from AppViewX.
mgmt IP-Address	Management IP address to use for the BIG-IP management IP address. By default, this field is filled with DYNAMIC to use a dynamically assigned IP address. Else provide an IP address from management subnet.
Get Available VM Sizes	Click this button to fetch the available VM sizes. 
VM Size	Select the instance size of the virtual machine from the dropdown list.

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Field	Description
Boot Location Type	The options are displayed in this field as it is available in the Azure marketplace for F5. Select a boot location type based on the requirement.
DNS Label Name	Enter a unique DNS Name for the Public IP address used to access the Virtual Machine.
Restricted Source address	This field restricts management access to a specific network or address. Enter an IP address or address range in CIDR notation or asterisk for all sources.
Provision Public Address	Provision to create the Public IP addresses for BIG-IP Management traffic. These addresses will be configured directly on the Azure network interfaces.
Allow Usage Analytics	This deployment can send anonymous template statistics to F5 to help us determine how to improve our solutions. If you select **No**, statistics are not sent.
Allow Phone Home	This deployment can provide F5 with high-level device use information to optimize development resources. If you select **No** the information is not sent.

12. Enter or select the field information in the **F5 Login Info** section of Form Input.

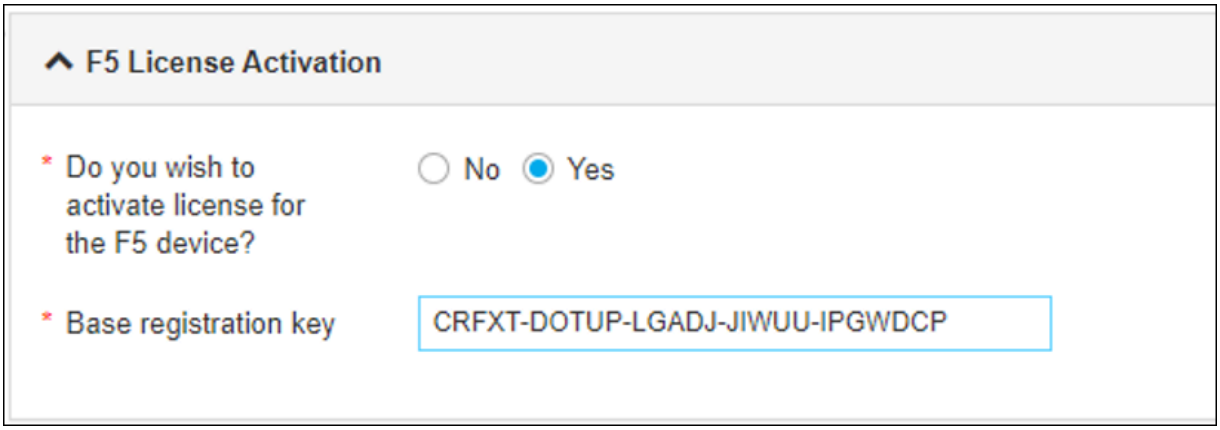


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13. The following table provides the field description for the **F5 Login Info** section of Form Input.

Field	Description
Login User Name	Enter the user name for the virtual machine. **Note:** The user name must not be "admin".
Authentication Type	Type of authentication to use on the Virtual Machine. The available option is password based authentication.
Login Password	Enter the password with the following combination: Minimum eight characters, at least one uppercase letter, one lowercase letter, one number and one special character.

14. Enter or select the field information in the **F5 License Activation** section of Form Input.



15. The following table provides the field description for the **F5 License Activation** section of Form Input.

Field	Description
Do you wish to activate license for the F5 device?	The options for activating the license:

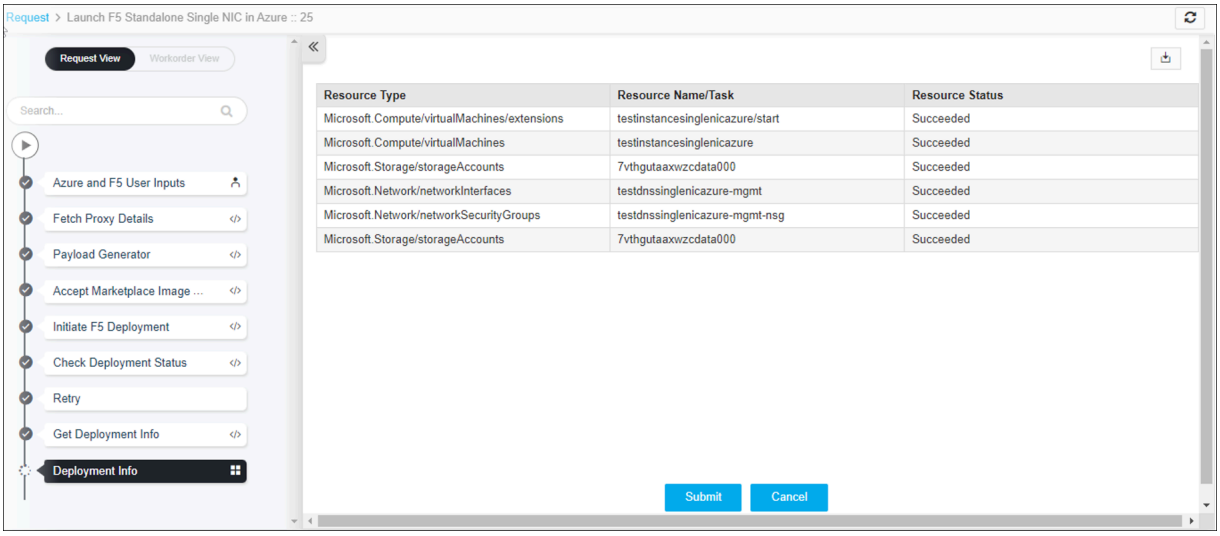
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Field	Description
	• **No** - if you select this option, you cannot access F5 modules. • **Yes** - if you select this option, the Base registration key is enabled. Enter the registration key to activate the license.

16. Click **Submit** to submit the form.
    The Confirmation popup opens.

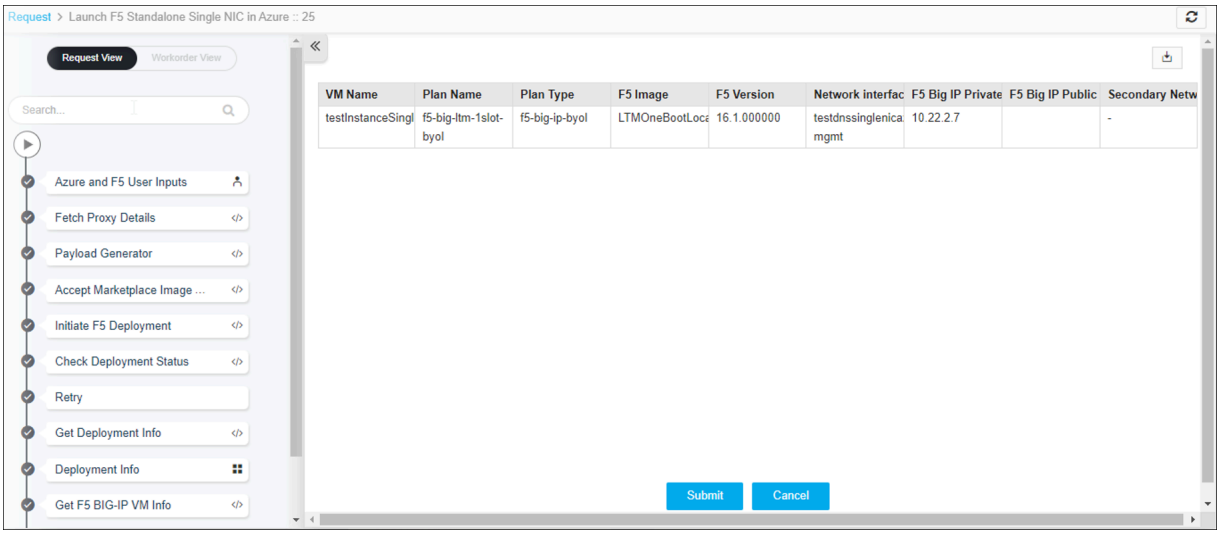
> **Note:**
> • If you want to save this form to edit it later, click the **Save Draft** button, and then click **Ok** in the Confirmation popup window. The form will be saved as Open request under **Request** > **My Request**.
> • If you want to cancel this form, click the **Cancel** button.

17. Click **Ok** to submit the form.
    The validation starts automatically and reaches the **Deployment Info** stage. In this page, the host details are shown. If required, you can download the details in the .csv format by clicking the download  button.



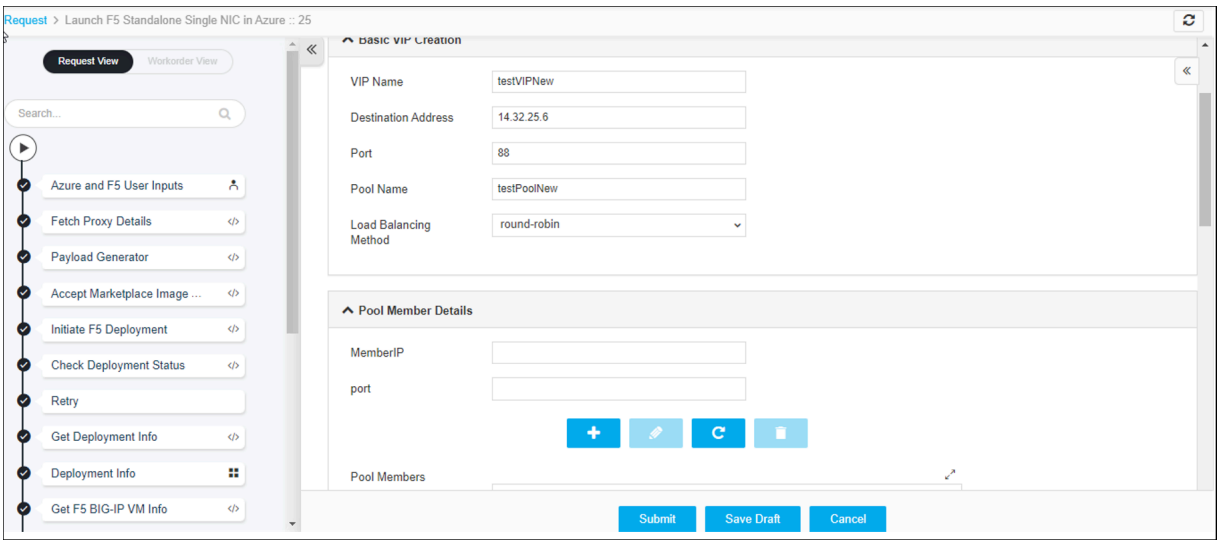
18. Click **Submit** to submit the form.
    The validation starts automatically and reaches the **VM Status** stage.

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19. Click **Submit** to submit the form.

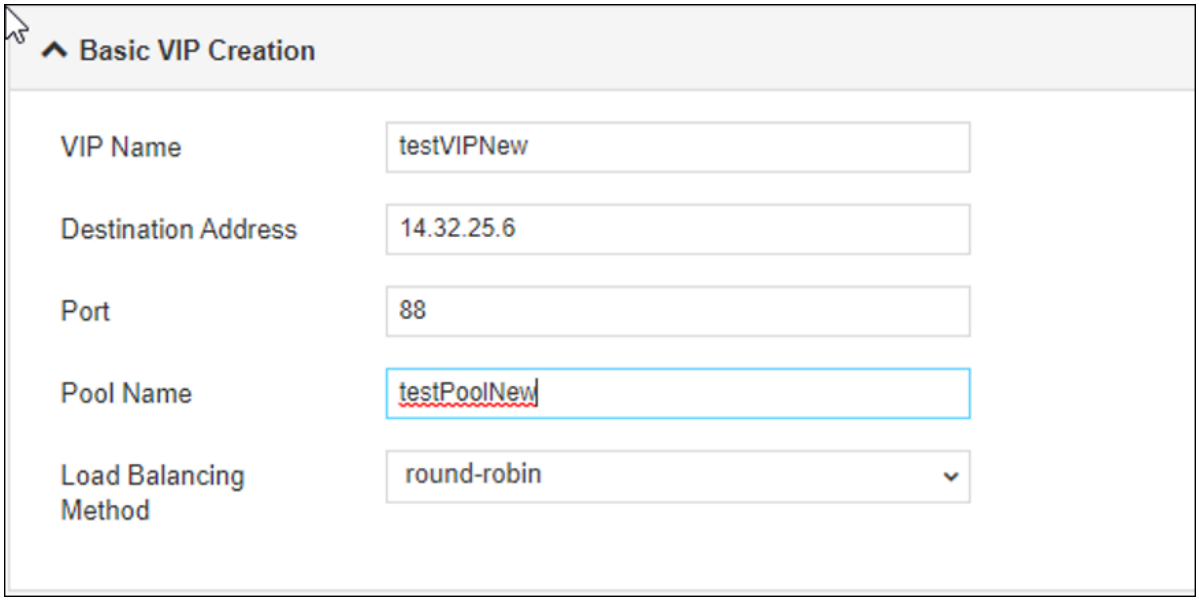
    The validation starts automatically and reaches the **Basic Provisioning** stage.



In this page, provide the object details that can be provisioned in VM Status as follows:

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- Enter or select the field information in the **Basic VIP Creation** section.



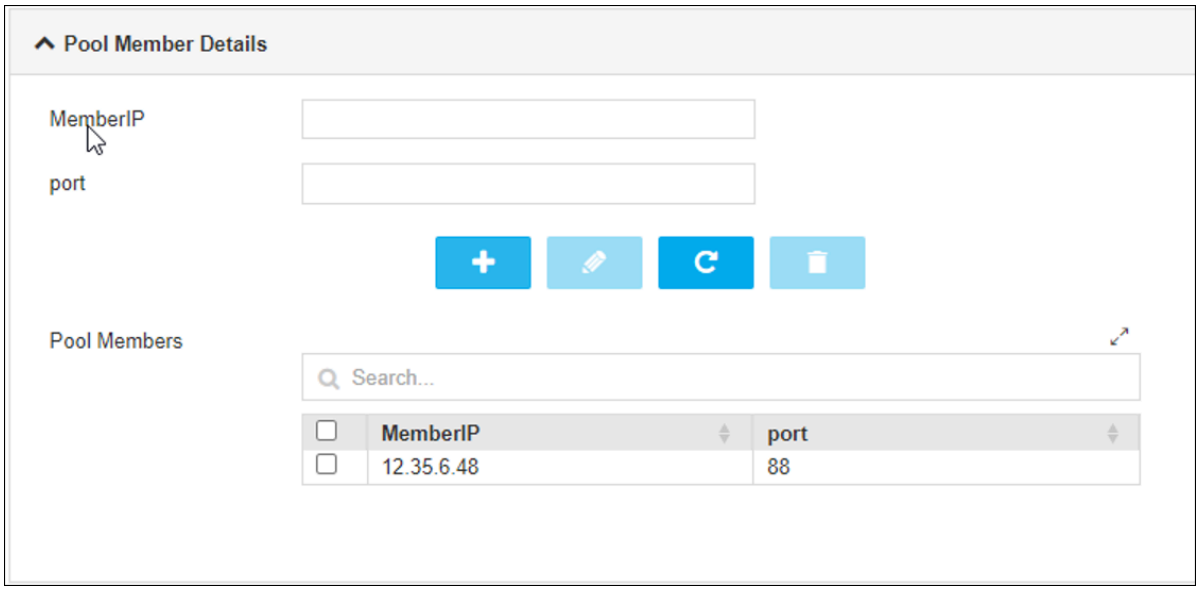
The following table provides the field description for creating basic VIP:

Field	Description
VIP Name	Enter the name of the VIP.
Destination Address	Enter the destination IP address.
Port	Enter a port.
Pool Name	Enter the pool name.
Load Balancing Method	The load balancing method is used to select a pool in this VIP. The default is round-robin. The methods are: • **round-robin** - the system selects the pools sequentially. • **least-connection-node** - The system passes a new connection to the node that has the least number of current connections out of all pools of which a node is a member. This method works best in environments where the servers or other equipment you are load balancing have similar capabilities. This is a dynamic load balancing method, distributing connections based on various aspects of real-time server performance analysis, such as the number of current connections per node, or the fastest node response time.

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Field	Description
	• **least-connection-member** - The system passes a new connection to the node that has the least number of current connections in the pool. This method works best in environments where the servers or other equipment you are load balancing have similar capabilities. This is a dynamic load balancing method, distributing connections based on various aspects of real-time server performance analysis, such as the current number of connections per node or the fastest node response time. • **ratio-member** - The number of connections that each machine receives over time is proportionate to a ratio weight you define for each machine within the pool.

• Enter or select the field information in the Pool Member Details section.



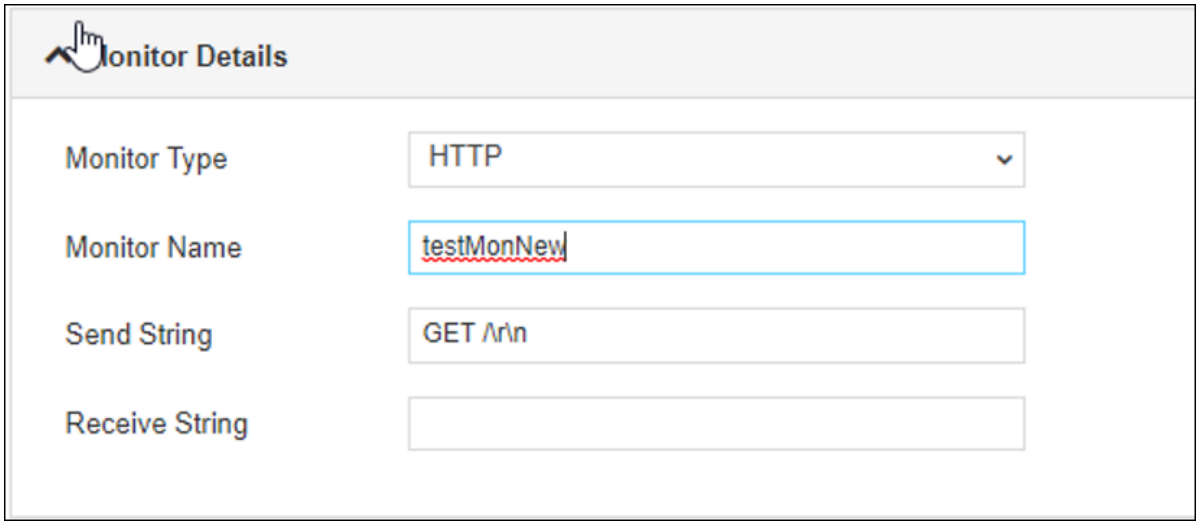
The following table provides the field description of the pool member details:

Field	Description
Member IP	Enter the member IP.
Port	Enter a port.

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Field	Description
Pool Members	Click the add button to add the pool members to the list. After adding the pool member details to the list, you can manage them.

- Enter or select the field information in the **Monitor Details** section.



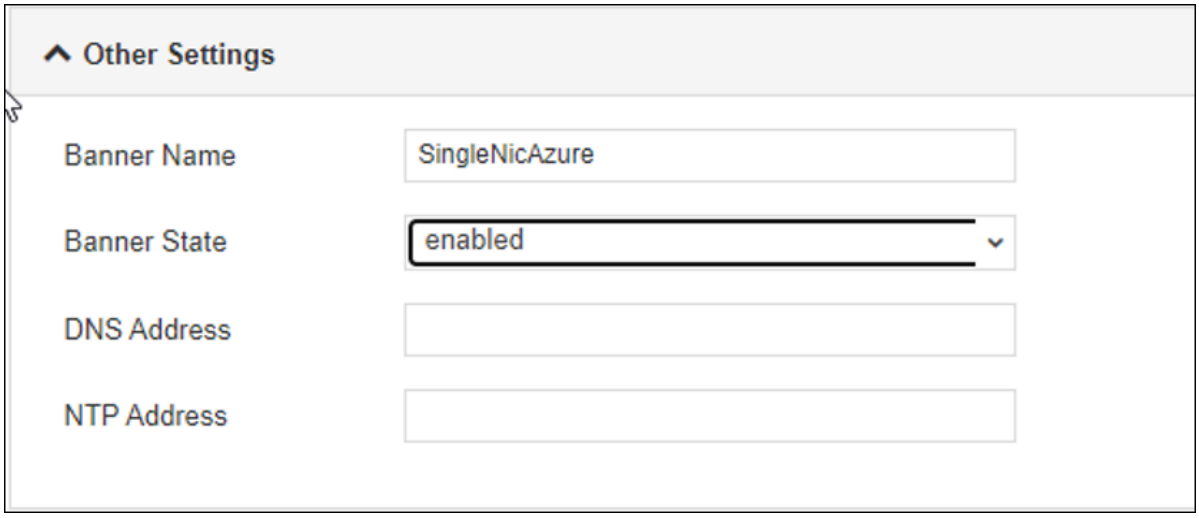
The following table provides the field description of the monitor details:

Field	Description
Monitor Type	Select the health monitors that are available to add for the pool: • HTTP • HTTPS • TCP • TCPHALFOPEN • Gatewaylcmp
Monitor Name	Enter the name for the monitor.
Send String	The text string that the monitor sends to the target object. You must include \r\n at the end of a non-empty Send String. To retrieve a specific page from a website, specify a fully qualified path name.
Receive String	The regular expression representing the text string that the monitor looks for in the returned resource. The most common receive

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Field	Description
	expressions contain a text string that is included in an HTML file on your site. The text string can be regular text, HTML tags, or image names, and the associated operation is not case-sensitive.

- Enter or select the field information in the Other Settings section.

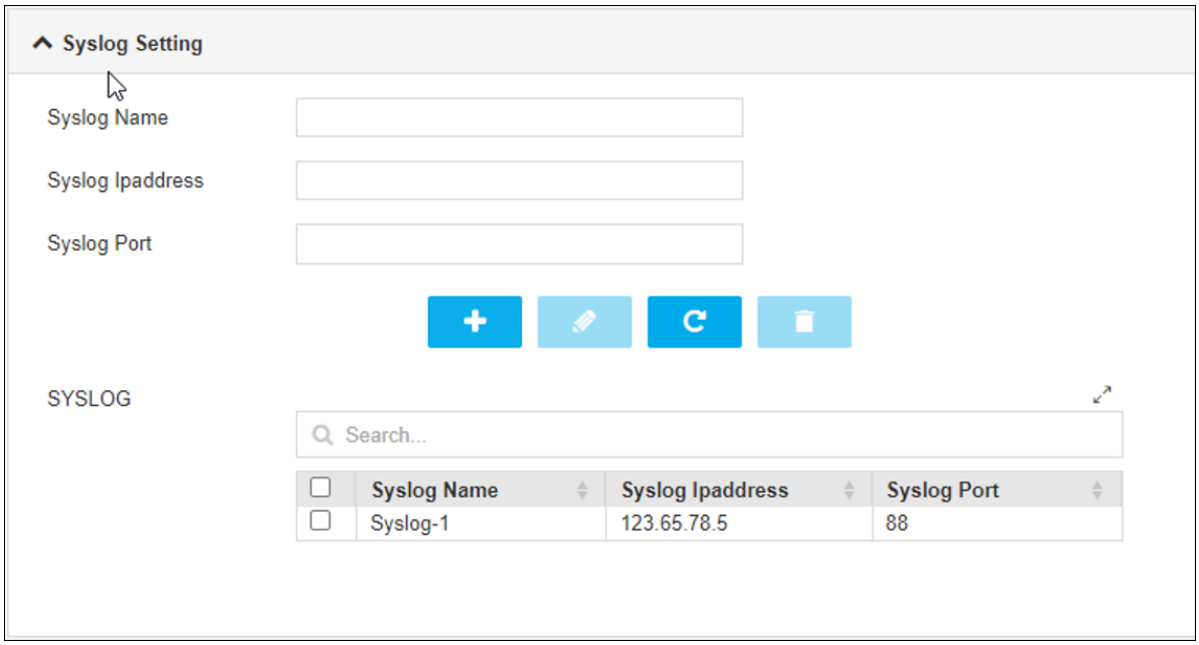


The following table provides the field description for the other settings:

Field	Description
Banner Name	Enter the name for banner.
Banner State	Select a state for the banner. The possible states are: • enabled • disabled
DNS Address	Enter the DNS address.
NTP Address	Enter the NTP address.

- Enter or select the field information in the Syslog Setting section.

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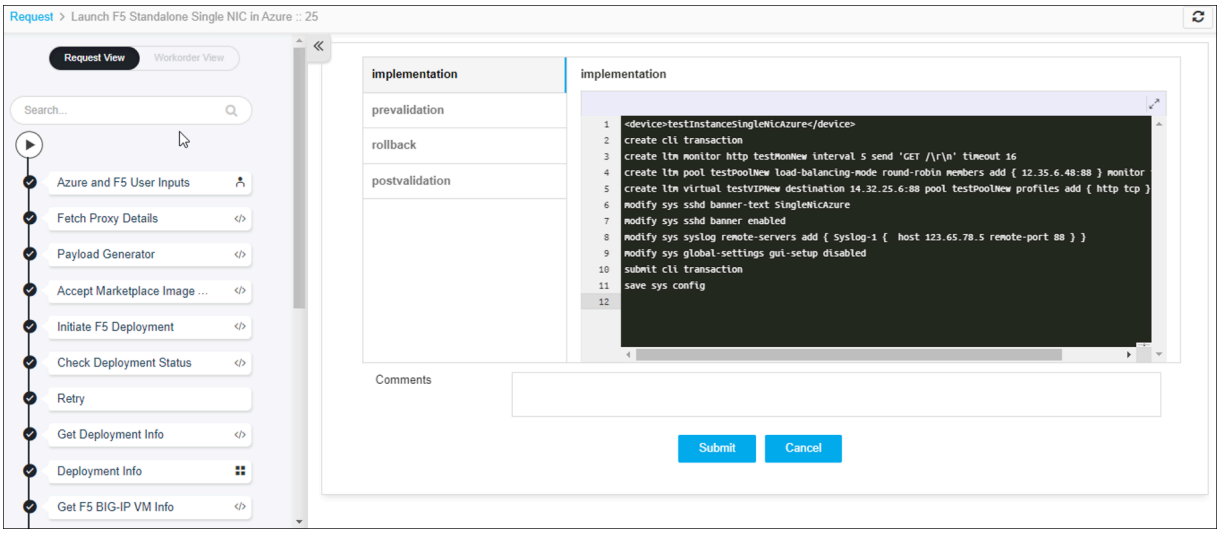
The following table provides the field description for the syslog setting:

Field	Description
Syslog Name	Enter the name for syslog.
Syslog Ipddress	Enter the syslog IP address.
Syslog Port	Enter the syslog port.
SYSLOG	Click the add button to add the syslog settings to the list. After adding the syslog settings to the list, you can manage them.

20. Click **Submit** to submit the form.

    The validation starts automatically and reaches the **Review** stage.

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21. Review the input data under the **implementation**, **rollback**, and **postvalidation** tabs.
22. (Optional) If you need to update any data at this stage, you can do so by clicking the right-side of the mouse on the data and selecting the desired option.
23. After the review, click the **Submit** button.
    The Confirmation popup opens.

> **Note:** Click **Cancel** to stop running the workflow creation.

24. Click **Ok** to complete the workflow creation.
    It takes a while to complete the request.
25. The workflow is created.

> **Note:** The stages of the request are shown in the left-side of the screen. To view a particular stage of the request, click the respective stage.

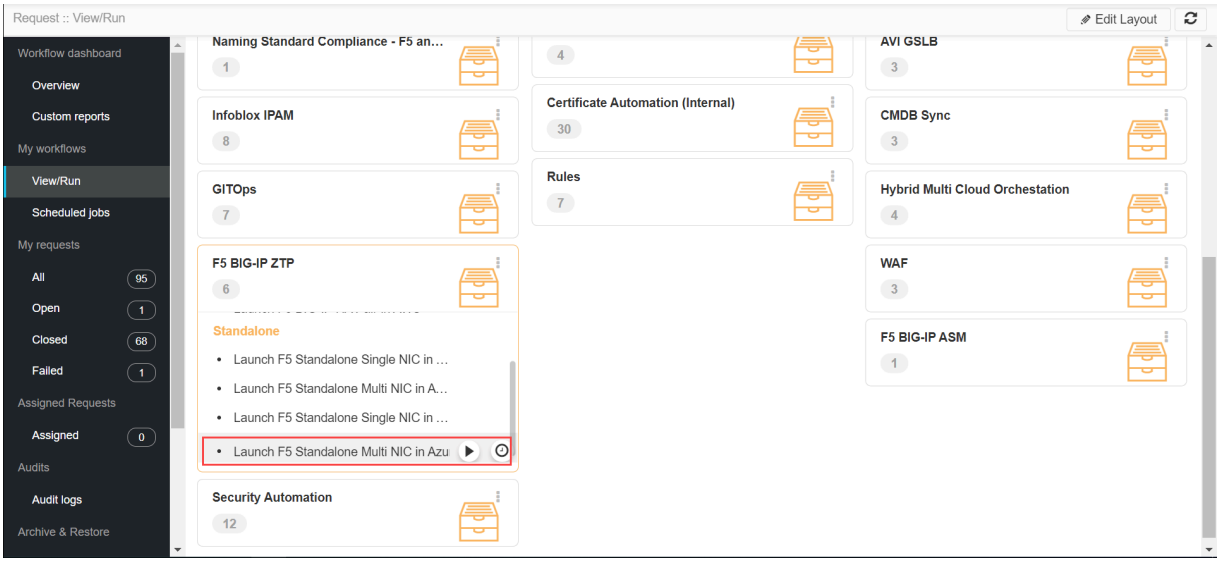
Launch F5 Standalone Multi NIC in Azure

This workflow launches a Standalone Multi NIC F5 BIG-IP Virtual Machine on Azure. An F5 device will be deployed in Azure. If a new-stack template is selected, then vnets and subnets will be created. If an existing-stack template is selected, the existing vnet and subnet will be utilized. AppViewX checks if the deployment successfully completed. Once completed, the device details are fetched. The F5 device is added into AppViewX and Email will be sent to the user. Also, option to do basic provisioning to the newly added F5 device.

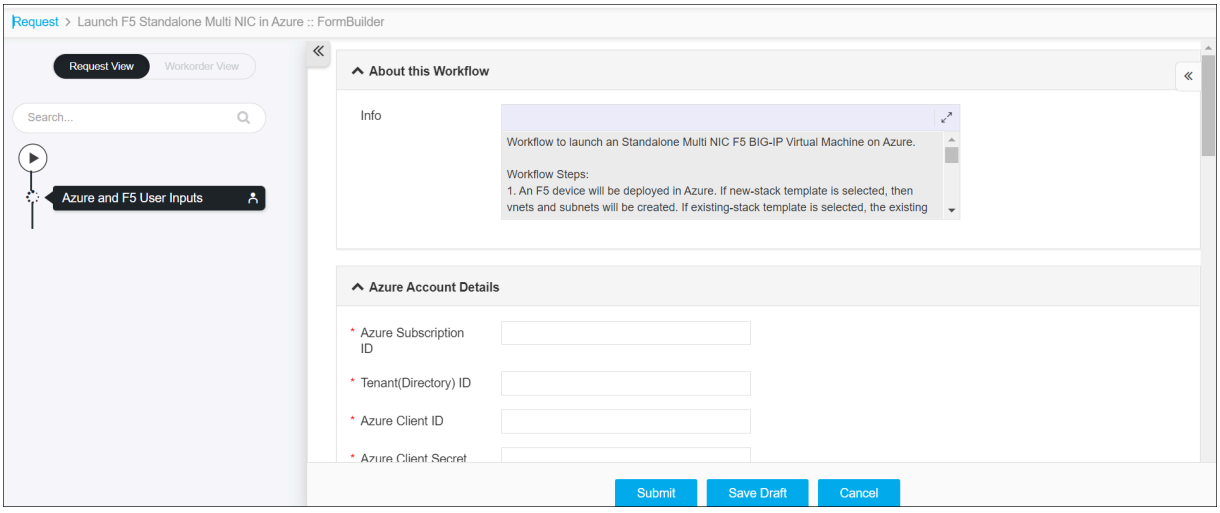
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To run this workflow,

1. Go to **Menu** > **Request** > **View/Run**.
   The Workflow Catalog page appears.
2. In the Workflow Catalog page, hover over the **Launch F5 Standalone Multi NIC in Azure** workflow.
   The Run and Schedule buttons are shown.

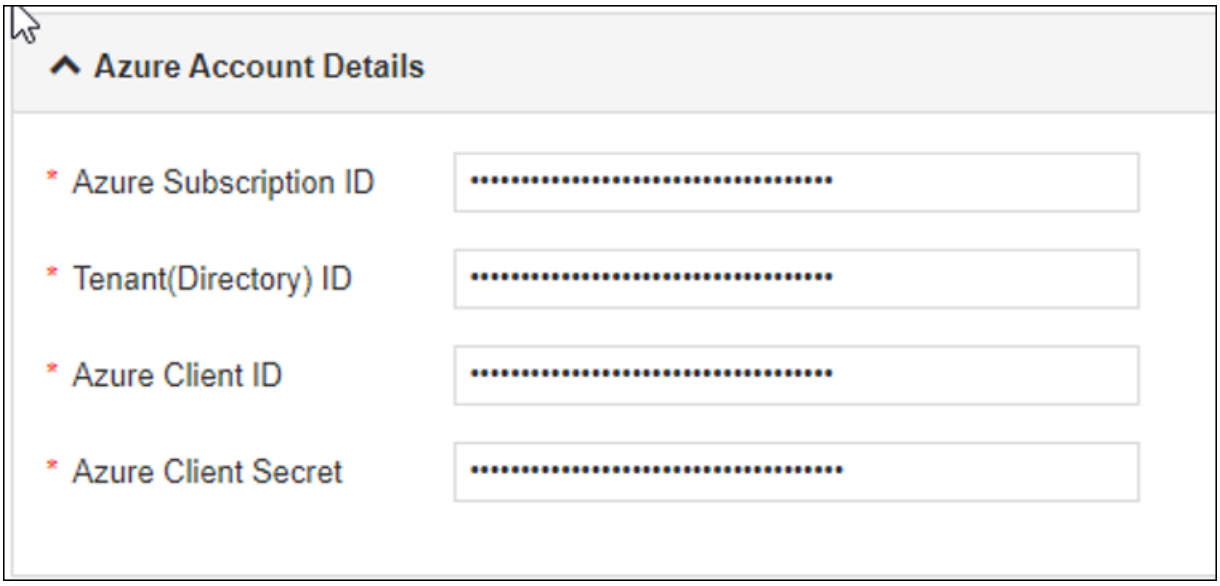


3. Click the Run button.
   The Form Input page opens:



4. Enter or select the field information in the **Azure Account Details** section of Form Input.

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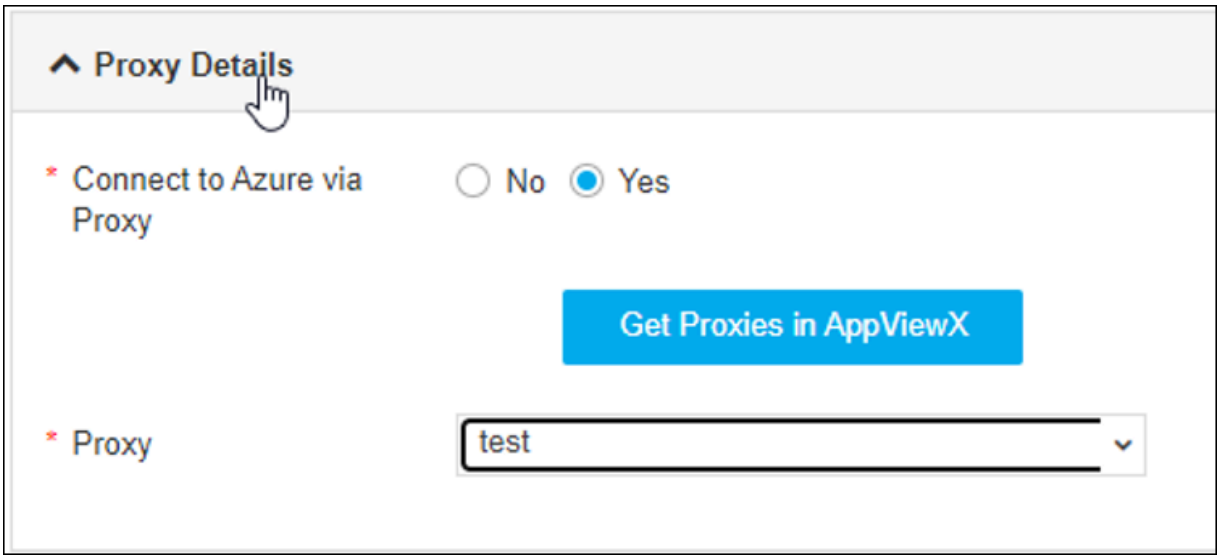
Note: The entered tenant/application ID must have contributor/owner access to the Azure application provided.

5. The following table provides the field description for the **Azure Account Details** section of Form Input.

Field	Description
Azure Subscription ID	Enter the subscription ID.
Tenant(Directory) ID	Enter Tenant ID.
Azure Client ID	Enter the client ID.
Azure Client Secret	Enter the client secret key.

6. Enter or select the field information in the **Proxy Details** section of Form Input.

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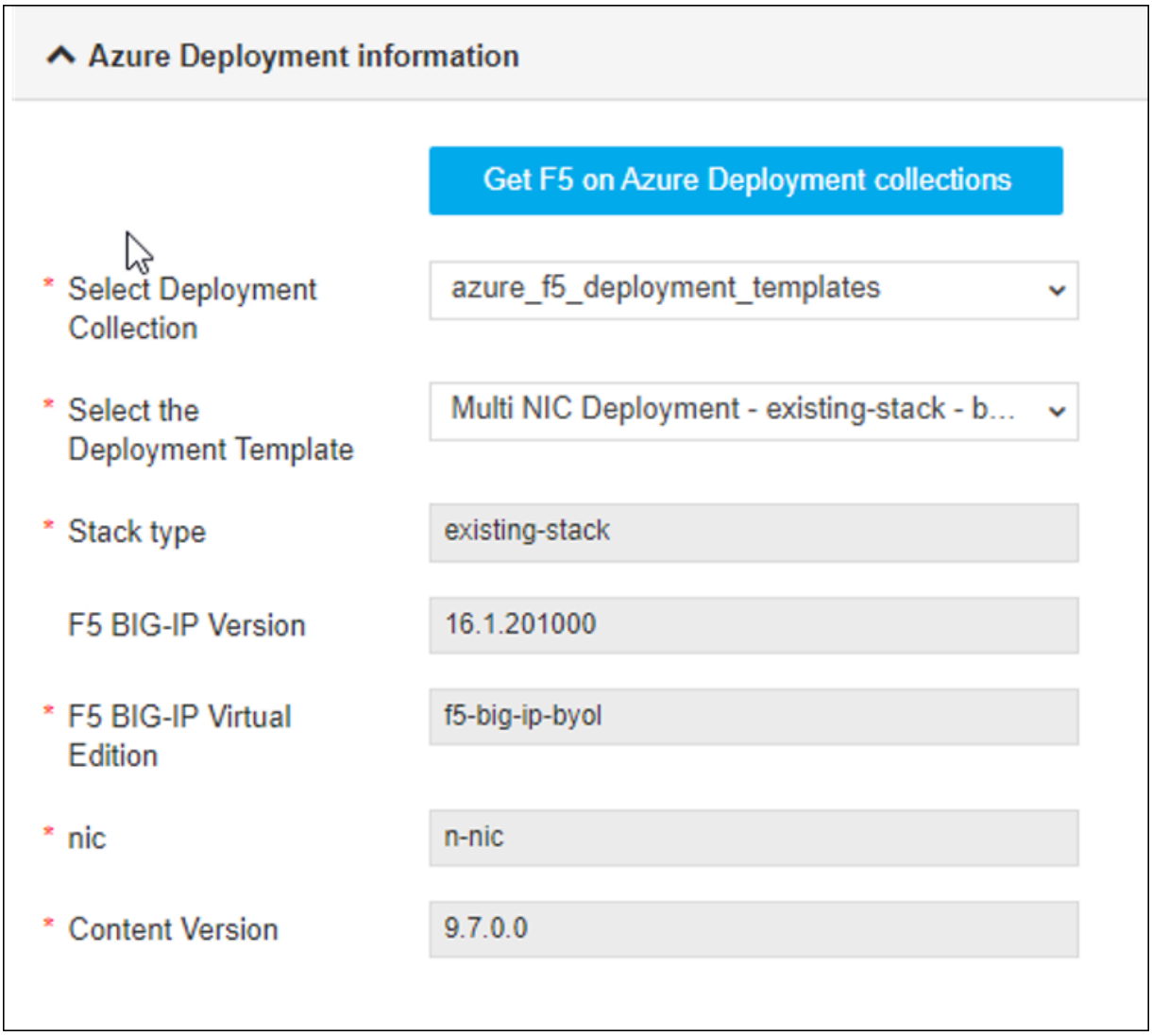


7. The following table provides the field description for the **Proxy Details** section of Form Input.

Field	Description
Connect to Azure via Proxy	Allows to connect with Azure via proxy or not. The options are: • **No** (default) - select this option to connect with Azure without proxy (Internet connection must be required). • **Yes** - select this option to connect with Azure via proxy, then click the **Get Proxies in Appviewx** button to fetch the proxy servers configured in AppViewX to be displayed in the **Proxies** dropdown list.
***Proxy**	Select a proxy servers configured in AppViewX from the dropdown list.

8. Enter or select the field information in the **Azure Deployment information** section of Form Input.

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9. The following table provides the field description for the **Azure Deployment information** section of Form Input.

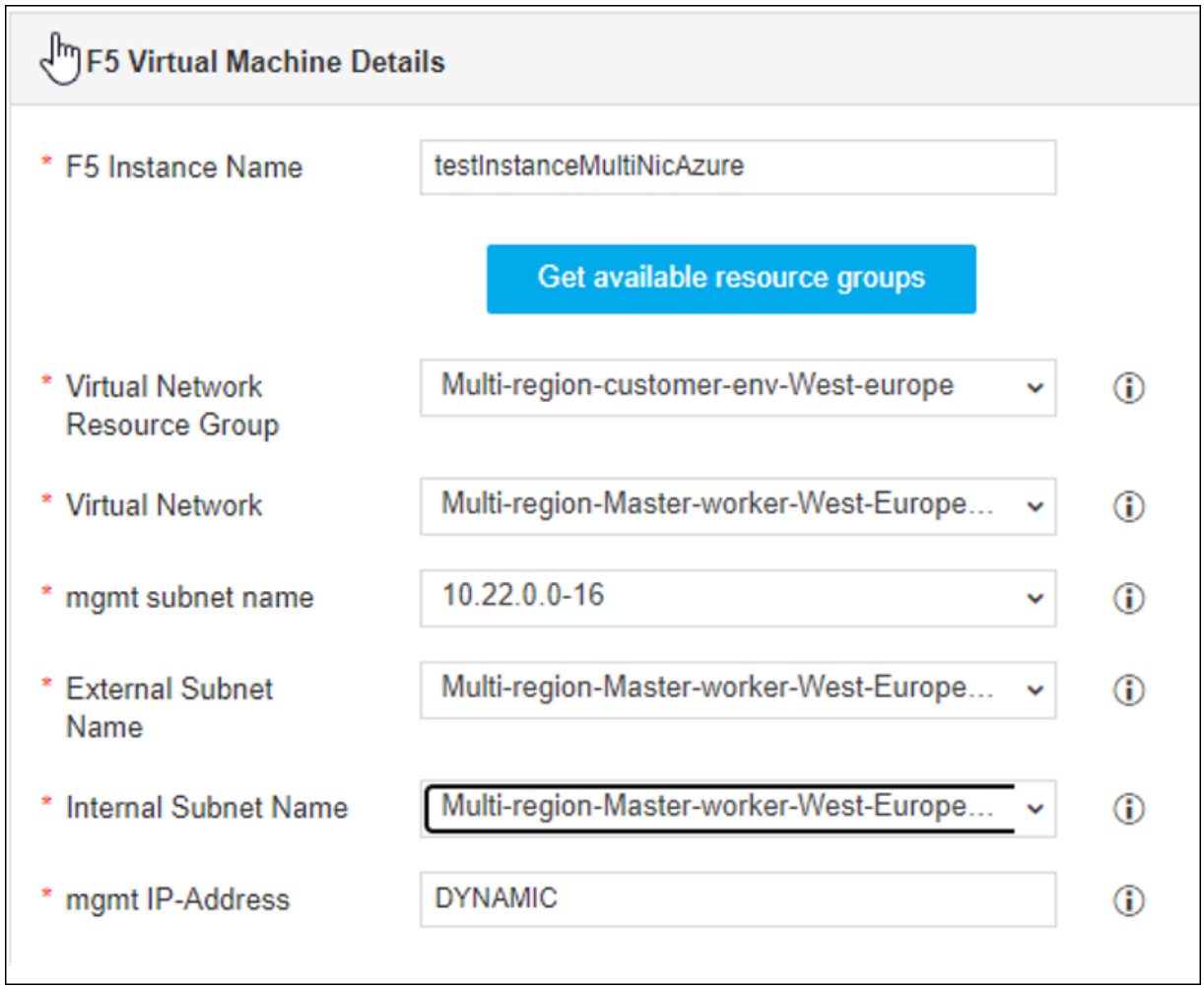
Field	Description
Get F5 on Azure Deployment collections	Click the **Get F5 on Azure Deployment collections** button to get the deployment templates from the AppViewX Collection.
Select Deployment Collection	Select a deployment collection from the dropdown list.
Select the Deployment Template	Select a deployment template type from the dropdown list.

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Field	Description
Stack type	It is non editable field and stack type will be auto-filled from the selected deployment template.
F5 BIG-IP Version	It is non editable field and F5 BIG IP version will be auto-filled from the selected deployment template.
F5 BIG-IP Virtual Edition	It is non editable field and F5 BIG IP virtual edition will be auto-filled from the selected deployment template.
nic	Add n number of NICs using this template.
Content Version	It is non-editable field and content version will be auto-filled from the selected deployment template.

10. Enter or select the field information in the **F5 Virtual Machine Details** section of Form Input.

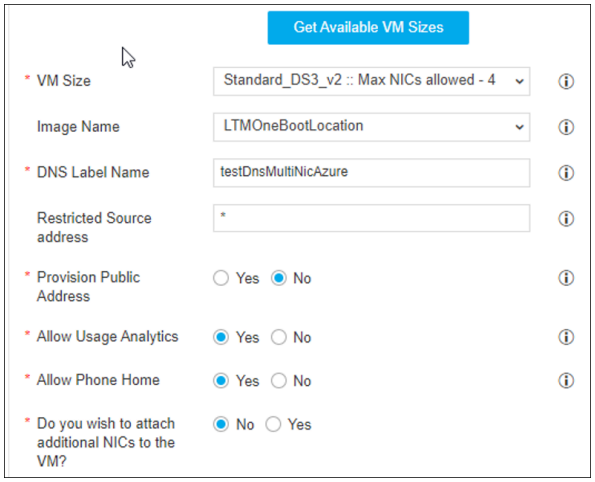
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11. The following table provides the field description for the **F5 Virtual Machine Details** section of Form Input.

Field	Description
F5 Instance Name	Name of the F5 device name which was provided for a device while onboarding it in AppViewX Inventory.
Get available resource groups	Click this button to fetch the Azure resource groups of virtual network.
Virtual Network Resource Group	Select a virtual network resource group from the dropdown list.
Virtual Network	Select a virtual network from the resource group from the dropdown list.

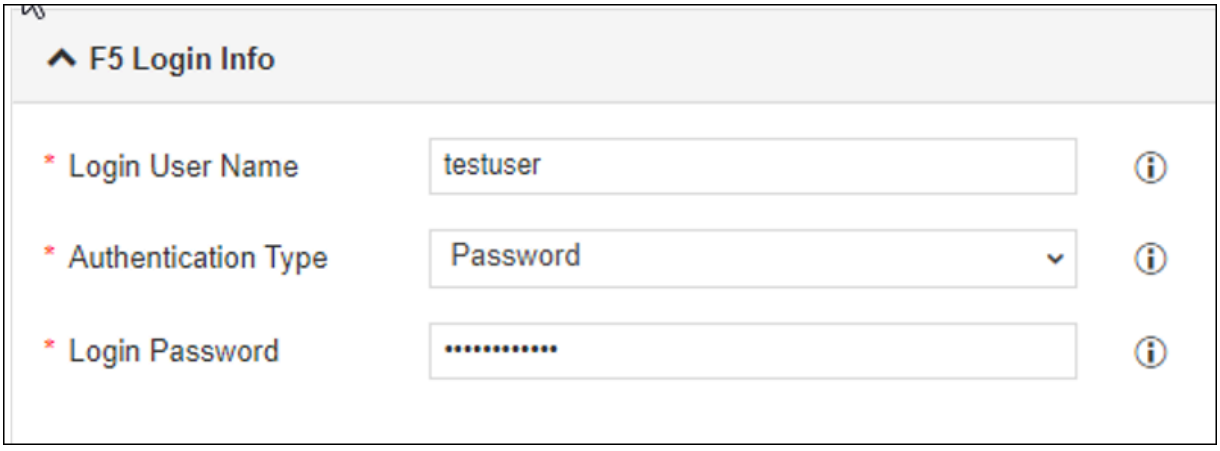
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Field	Description
	Note: Make sure that selected the VNET/ Management Subnet has connection established from and to AppViewX, only then the device can be communicated from AppViewX.
mgmt subnet name	Select a unique management subnet name from the dropdown list. Your subnet must have access to the internet.
External subnet name	Select an external subnet name.
Internal subnet name	Select an Internal subnet name.
mgmt IP-Address	Management IP address to use for the BIG-IP management IP address. By default, this field is filled with DYNAMIC to use a dynamically assigned IP address. Else provide an IP address.
Get Available VM Sizes	Click this button to fetch the available VM sizes. 
VM Size	Select the instance size of the virtual machine from the dropdown list.
Boot Location Type	The options are displayed in this field as it is available in the Azure marketplace for F5. Select a boot location type based on the requirement.

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Field	Description
DNS Label Name	Enter a unique DNS Name for the Public IP address used to access the Virtual Machine.
Restricted Source address	This field restricts management access to a specific network or address. Enter an IP address or address range in CIDR notation or asterisk for all sources.
Provision Public Address	Provision to create the Public IP addresses for BIG-IP Management traffic. These addresses will be configured directly on the Azure network interfaces.
Allow Usage Analytics	This deployment can send anonymous template statistics to F5 to help us determine how to improve our solutions. If you select **No**, statistics are not sent.
Allow Phone Home	This deployment can provide F5 with high-level device use information to optimize development resources. If you select **No** the information is not sent.
Do you wish to attach additional NICs to the VM?	Click Yes to attach additional NICs to the VM otherwise select No.

12. Enter or select the field information in the **F5 Login Info** section of Form Input.



13. The following table provides the field description for the **F5 Login Info** section of Form Input.

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Field	Description
Login User Name	Enter the user name for the virtual machine. **Note:** The user name must not be "admin".
Authentication Type	Type of authentication to use on the Virtual Machine, password based authentication or key based authentication.
Login Password	Enter the password with the following combination: Minimum eight characters, at least one uppercase letter, one lowercase letter, one number and one special character.

14. Enter or select the field information in the **F5 License details** section of Form Input.



15. The following table provides the field description for the **F5 License details** section of Form Input.

Field	Description
Do you wish to activate license for the F5 device?	The options for activating the license:

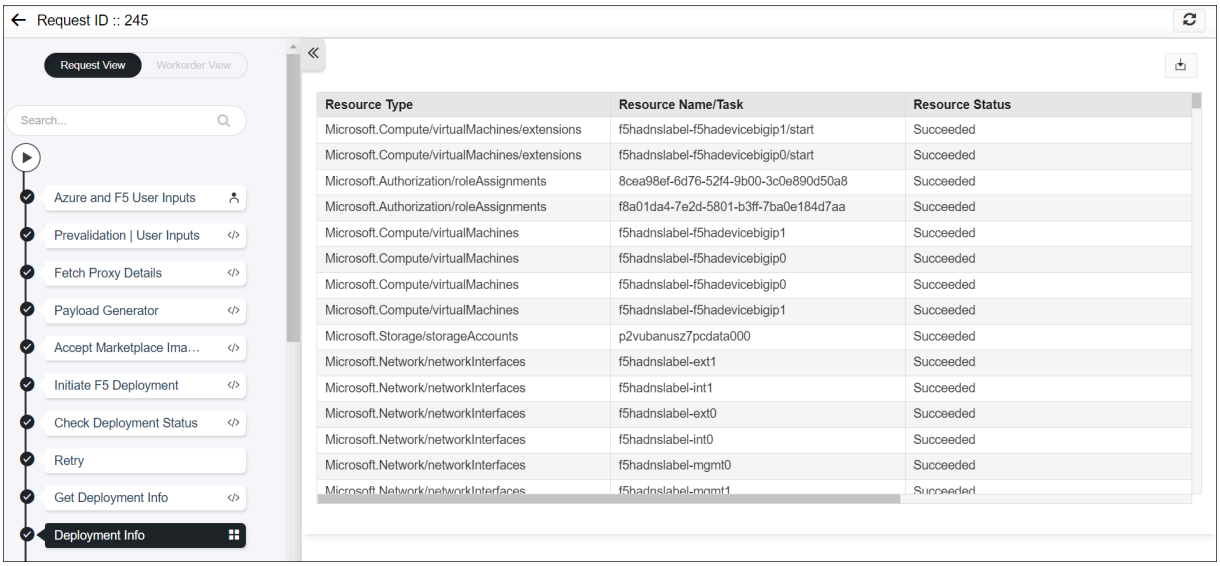
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Field	Description
	• **No** (default) - if you select this option, you cannot access F5 modules. • **Yes** - if you select this option, the Base registration key is enabled. Enter the registration key to activate the license.

16. Click **Submit** to submit the form.
    The Confirmation popup opens.

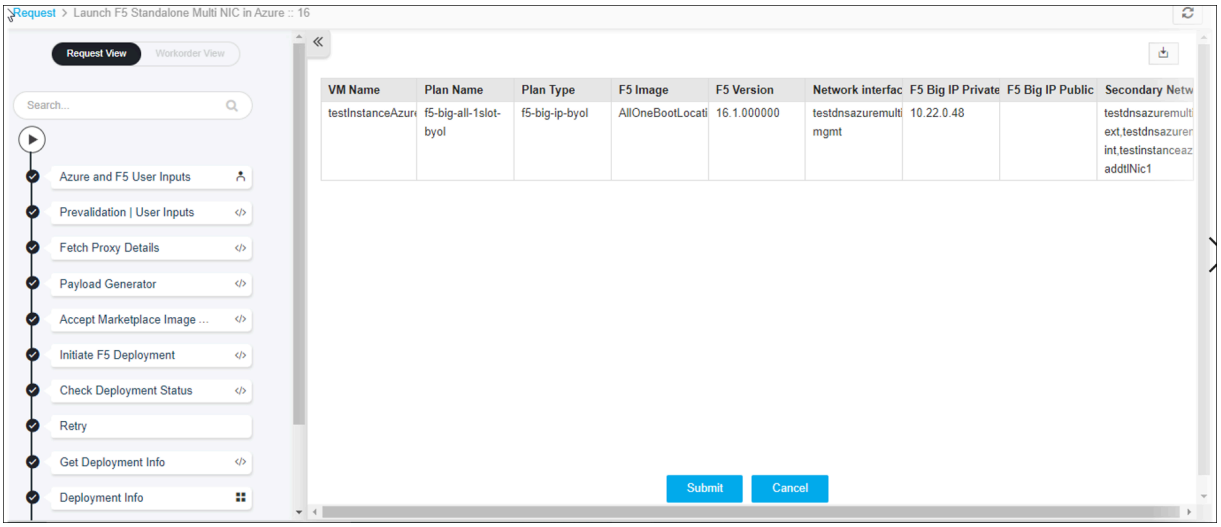
> **Note:**
> • If you want to save this form to edit it later, click the **Save Draft** button, and then click **Ok** in the Confirmation popup window. The form will be saved as Open request under **Request** > **My Request**.
> • If you want to cancel this form, click the **Cancel** button.

17. Click **Ok** to submit the form.
    The validation starts automatically and reaches the **Deployment Info** stage. In this page, the host details are shown. If required, you can download the details in the .csv format by clicking the download  button.



18. Click **Submit** to submit the form.
    The validation starts automatically and reaches the **VM Status** stage.

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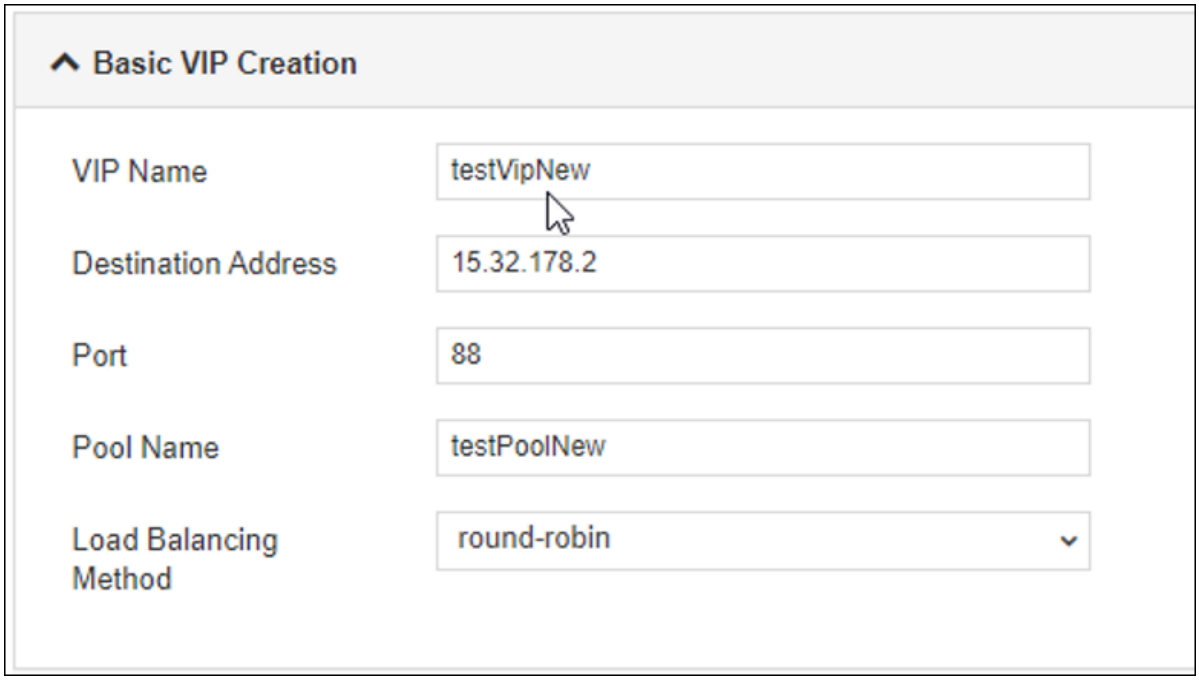


19. Click **Submit** to submit the form.

    The validation starts automatically and reaches the **Basic Provisioning** stage.

    In this page, provide the object details that can be provisioned in VM Status as follows:

    • Enter or select the field information in the **Basic VIP Creation** section.



The following table provides the field description for creating basic VIP:

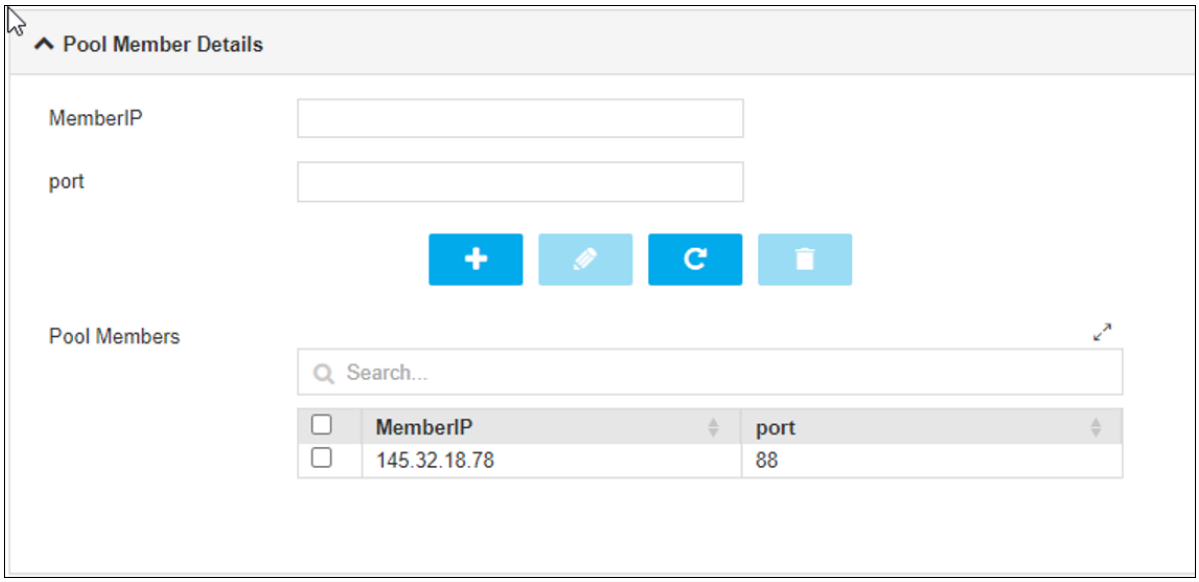
Field	Description
VIP Name	Enter the name of the VIP.

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Field	Description
Destination Address	Enter the destination IP address.
Port	Enter a port.
Pool Name	Enter the pool name.
Load Balancing Method	The load balancing method is used to select a pool in this VIP. The default is round-robin. The methods are: • **round-robin** - the system selects the pools sequentially. • **least-connection-node** - The system passes a new connection to the node that has the least number of current connections out of all pools of which a node is a member. This method works best in environments where the servers or other equipment you are load balancing have similar capabilities. This is a dynamic load balancing method, distributing connections based on various aspects of real-time server performance analysis, such as the number of current connections per node, or the fastest node response time. • **least-connection-member** - The system passes a new connection to the node that has the least number of current connections in the pool. This method works best in environments where the servers or other equipment you are load balancing have similar capabilities. This is a dynamic load balancing method, distributing connections based on various aspects of real-time server performance analysis, such as the current number of connections per node or the fastest node response time. • **ratio-member** - The number of connections that each machine receives over time is proportionate to a ratio weight you define for each machine within the pool.

• Enter or select the field information in the **Pool Member Details** section.

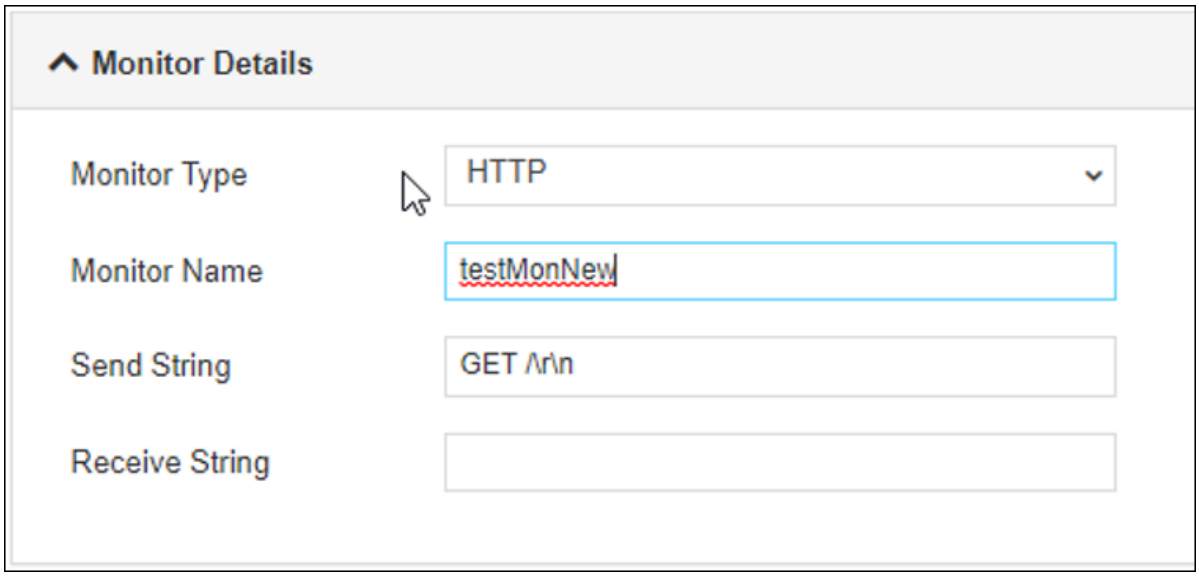
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The following table provides the field description of the pool member details:

Field	Description
Member IP	Enter the member IP.
Port	Enter a port.
Pool Members	Click the add button to add the pool members to the list. After adding the pool member details to the list, you can manage them.

- Enter or select the field information in the **Monitor Details** section.

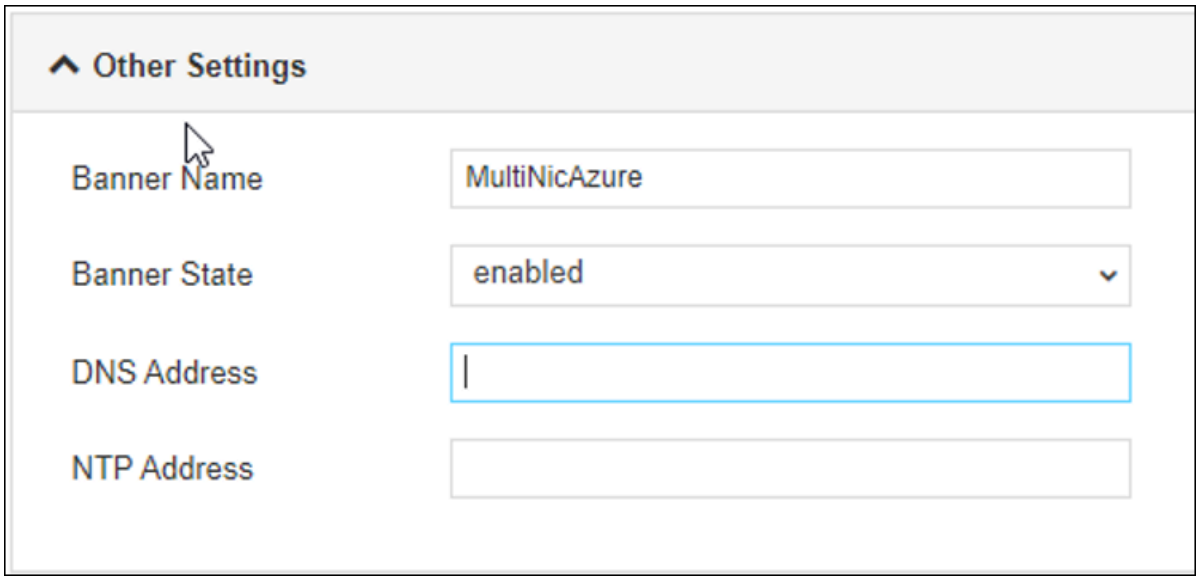


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The following table provides the field description of the monitor details:

Field	Description
Monitor Type	Select the health monitors that are available to add for the pool: • HTTP • HTTPS • TCP • TCPHALFOPEN • Gatewaylcmp
Monitor Name	Enter the name for the monitor.
Send String	The text string that the monitor sends to the target object. You must include \r\n at the end of a non-empty Send String. To retrieve a specific page from a website, specify a fully qualified path name.
Receive String	The regular expression representing the text string that the monitor looks for in the returned resource. The most common receive expressions contain a text string that is included in an HTML file on your site. The text string can be regular text, HTML tags, or image names, and the associated operation is not case-sensitive.

• Enter or select the field information in the **Other Settings** section.

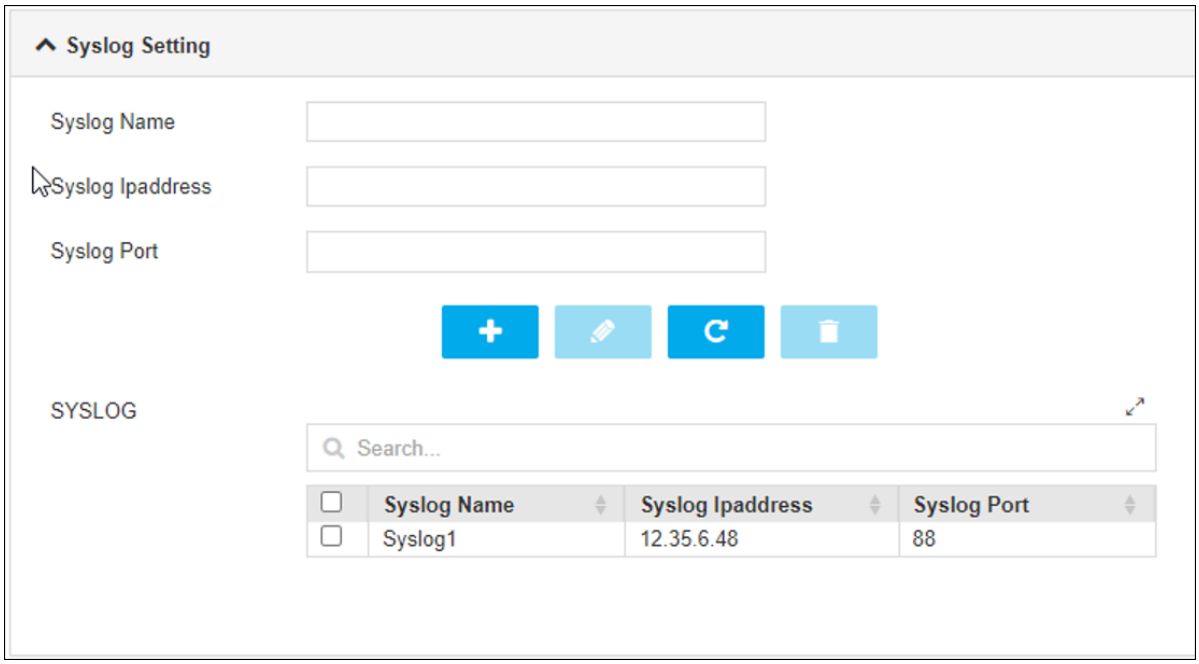


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The following table provides the field description for the other settings:

Field	Description
Banner Name	Enter the name for banner.
Banner State	Select a state for the banner. The possible states are: • enabled • disabled
DNS Address	Enter the DNS address.
NTP Address	Enter the NTP address.

• Enter or select the field information in the **Syslog Setting** section.



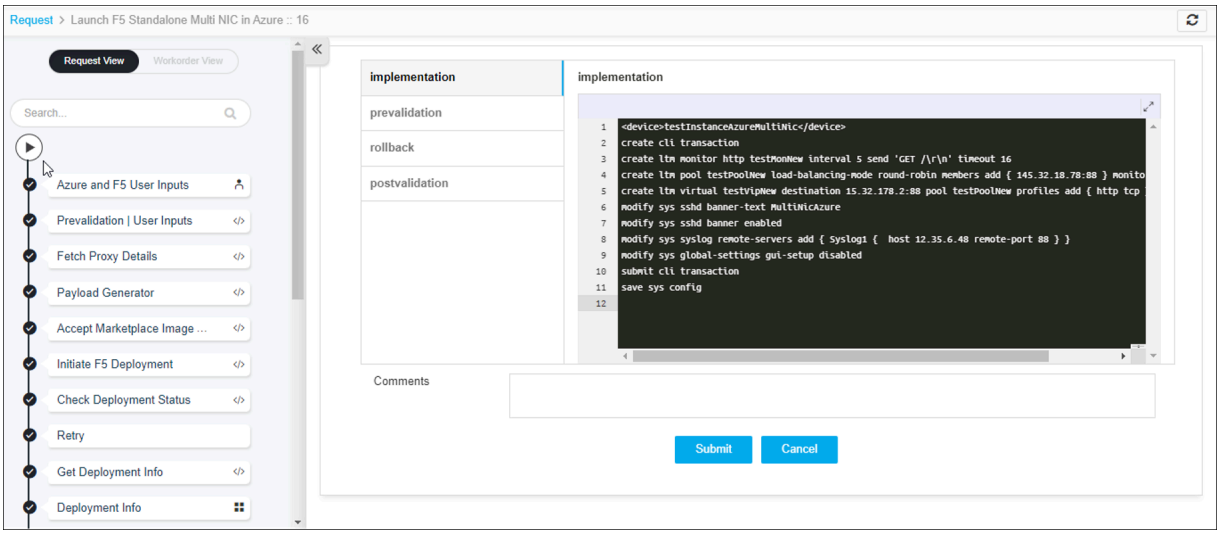
The following table provides the field description for the syslog setting:

Field	Description
Syslog Name	Enter the name for syslog.
Syslog Ipddress	Enter the syslog IP address.

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Field	Description
Syslog Port	Enter the syslog port.
SYSLOG	Click the add button to add the syslog settings to the list. After adding the syslog settings to the list, you can manage them.

20. Click **Submit** to submit the form.
    The validation starts automatically and reaches the **Review** stage.



21. Review the input data under the **implementation**, **rollback**, and **postvalidation** tabs.
22. (Optional) If you need to update any data at this stage, you can do so by clicking the right-side of the mouse on the data and selecting the desired option.
23. After the review, click the **Submit** button.
    The Confirmation popup opens.

> **Note:** Click **Cancel** to stop running the workflow creation.

24. Click **Ok** to complete the workflow creation.
    It takes a while to complete the request.
25. The workflow is created.

> **Note:** The stages of the request are shown in the left-side of the screen. To view a particular stage of the request, click the respective stage.

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Chapter 12: F5 BIG-IP AS3

- DNS
- LTM

DNS

- Create GTM Application Services
- Modify GTM Application Services
- Delete GTM Application Services

Create GTM Application Services

This workflow creates GTM Wide-IP along with GTM pool and monitor.

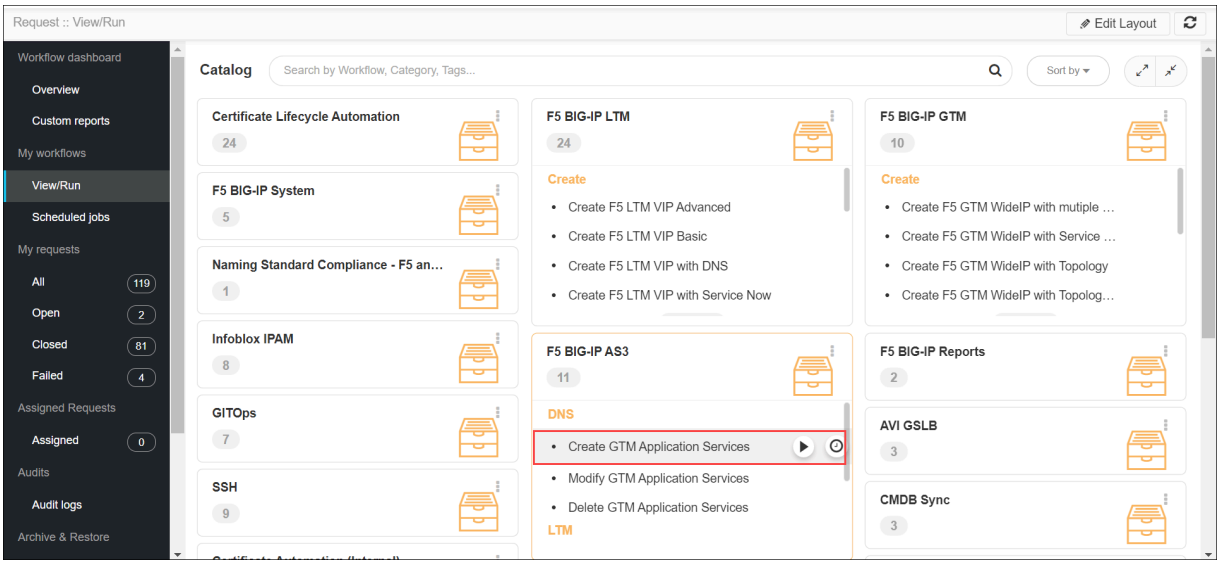
Pre-requisites

- The AS3 service has to be enabled in the target F5 device.
- F5 device list displays only AS3 service enabled and active devices.

To run this workflow,

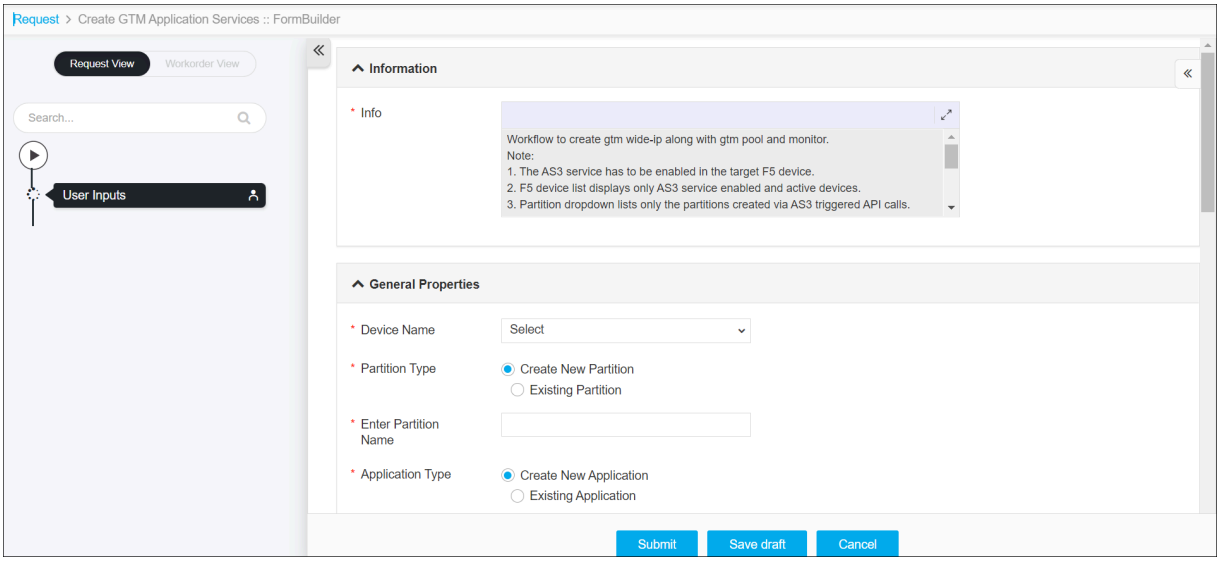
1. Go to ☰ **Menu** > **Request** > **View/Run**.
   The Workflow Catalog page appears.
2. In the Workflow Catalog page, hover over the **Create GTM Application Services** workflow.
   The Run and Schedule buttons were shown.

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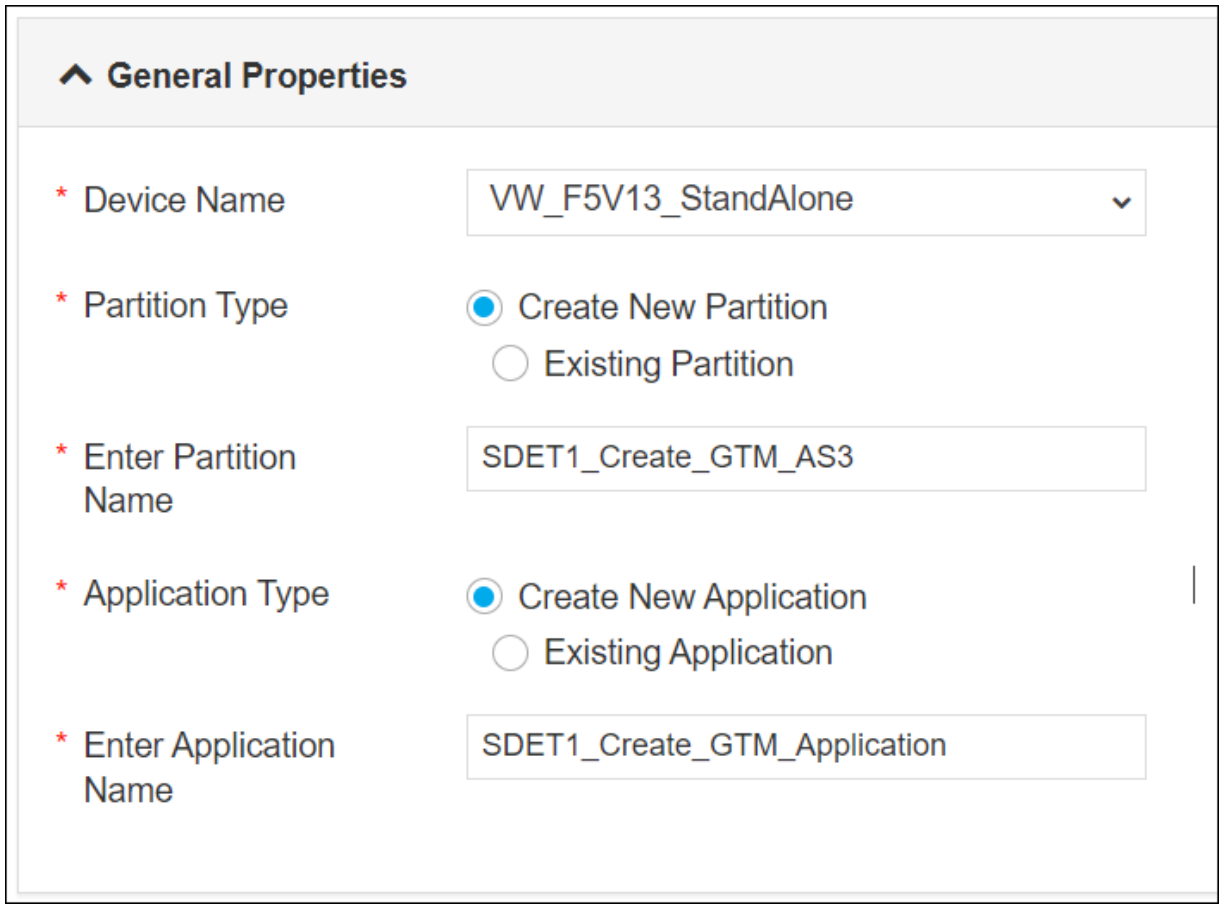
3. Click the Run  button.

   The Form Input page opens:



4. Enter or select the field information in the **General Properties** section of Form Input.

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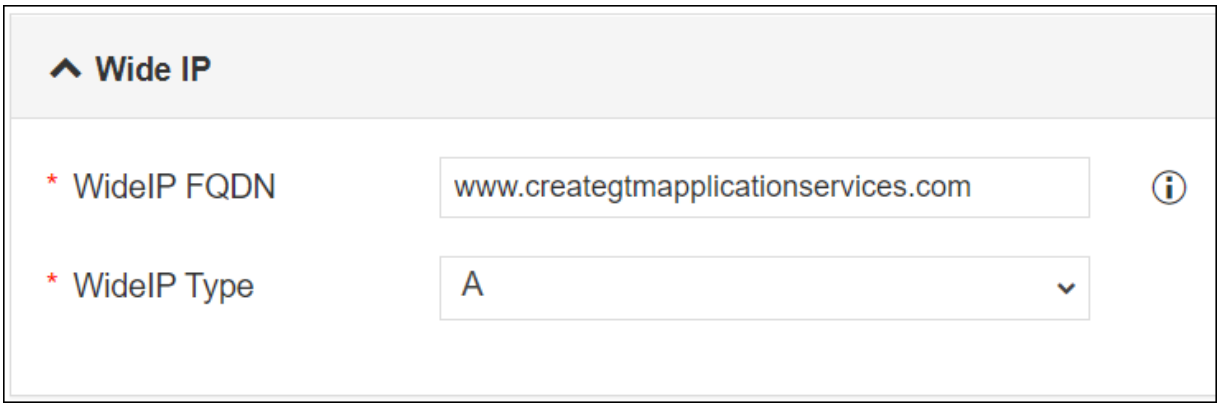
5. The following table provides the field description for the **General Properties** section of Form Input:

Field	Description
****Device Name**	Select a device from the dropdown list. Only the devices that are AS3 enabled and active are displayed.
***Partition Type**	Select a partition type. The options are: • Create New Partition (default) - select this option to create a new partition. • Existing Partition - select this option to choose an existing partition. **Note:** Partition dropdown lists only the partitions created via AS3 triggered API calls.
***Enter Partition Name**	Enter the partition name.
***Application Type**	Select a application type. The options are:

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Field	Description
	• Create New Application (default) - select this option to create a new application. • Existing Application - select this option to choose an existing partition.
***Enter Application Name**	Enter the name for the application.

6. Enter or select the field information in the **Wide IP** section of Form Input.

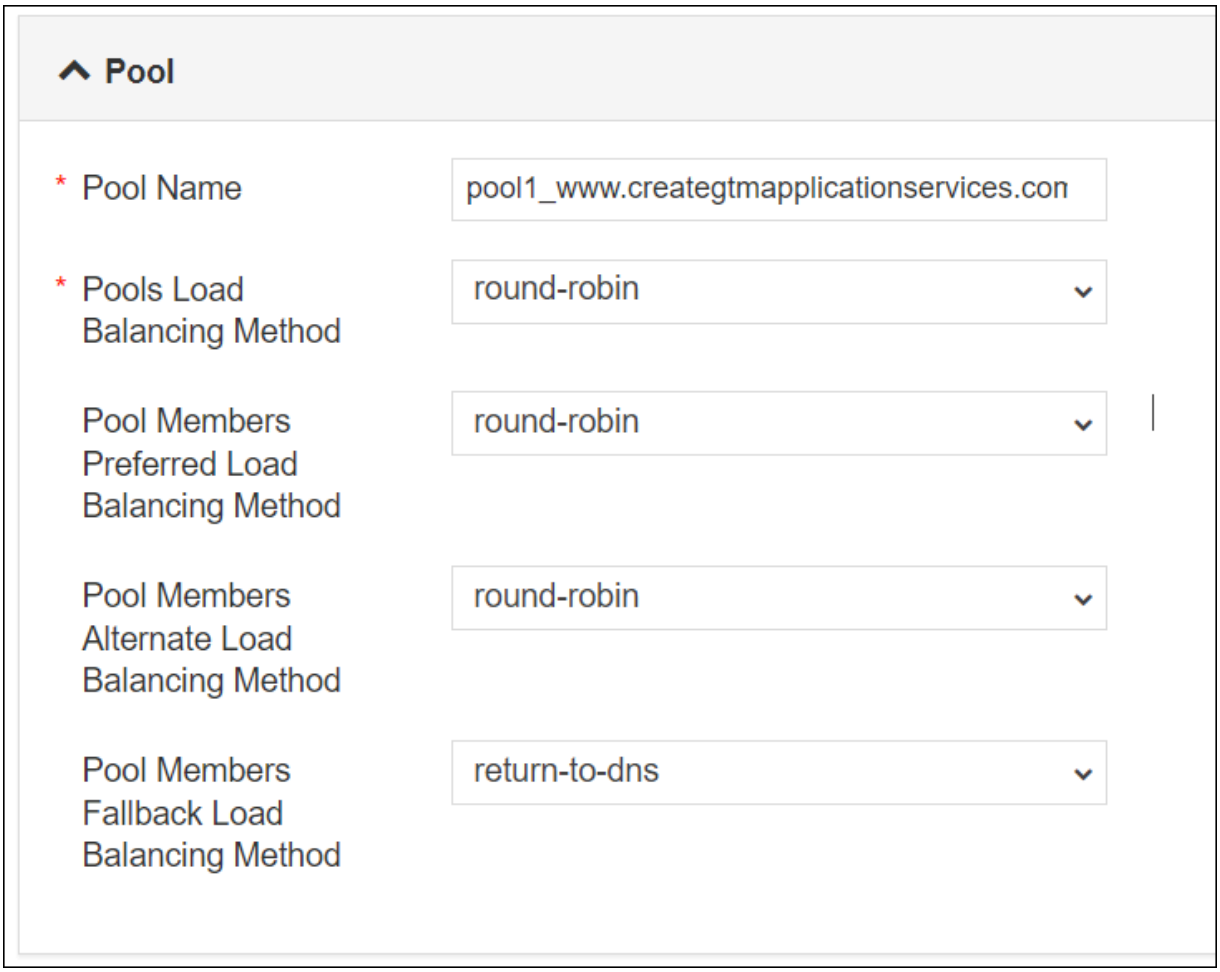


7. The following table provides the field description for the **Wide IP** section of Form Input:

Field	Description
WideIP FQDN	Enter the fully qualified domain name.
WideIP Type	Select Wide IP type from the dropdown list.

8. Enter or select the field information in the **Pool** section of Form Input.

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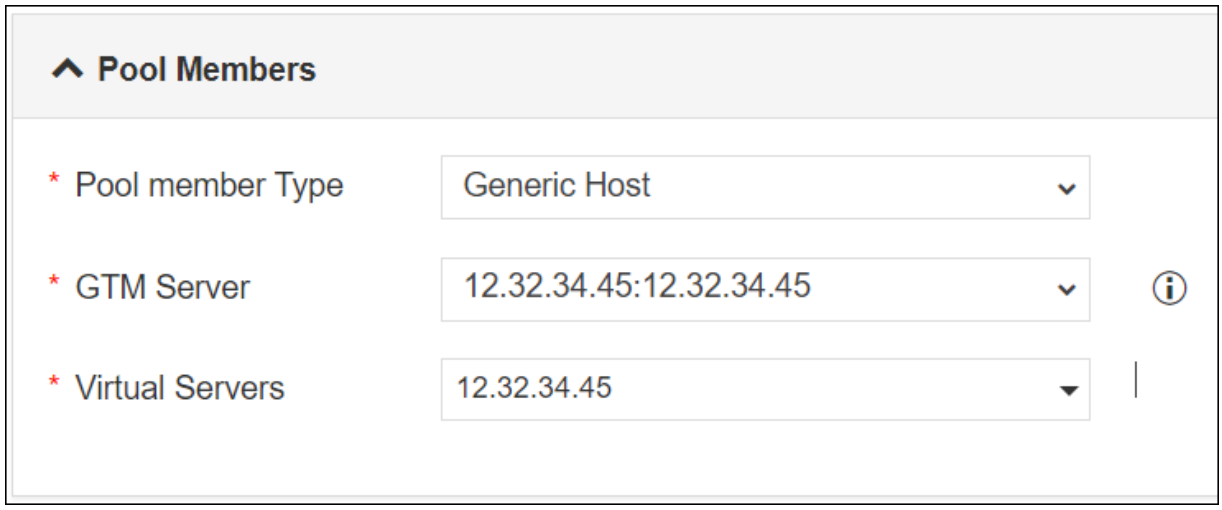


9. The following table provides the field description for the **Pool** section of Form Input:

Field	Description
***Pool Name**	Enter the pool name.
***Pools Load Balancing Method**	Select a load balancing method for the pools.
Pool Members Preferred Load Balancing Method	Select a preferred load balancing method for the pool members. The system tries this method first.
Pool Members Fallback Load Balancing Method	Select the alternate load balancing method. The system tries this method if the Preferred method is unsuccessful in picking the WideIP.

10. Enter or select the field information in the **Pool Members** section of Form Input.

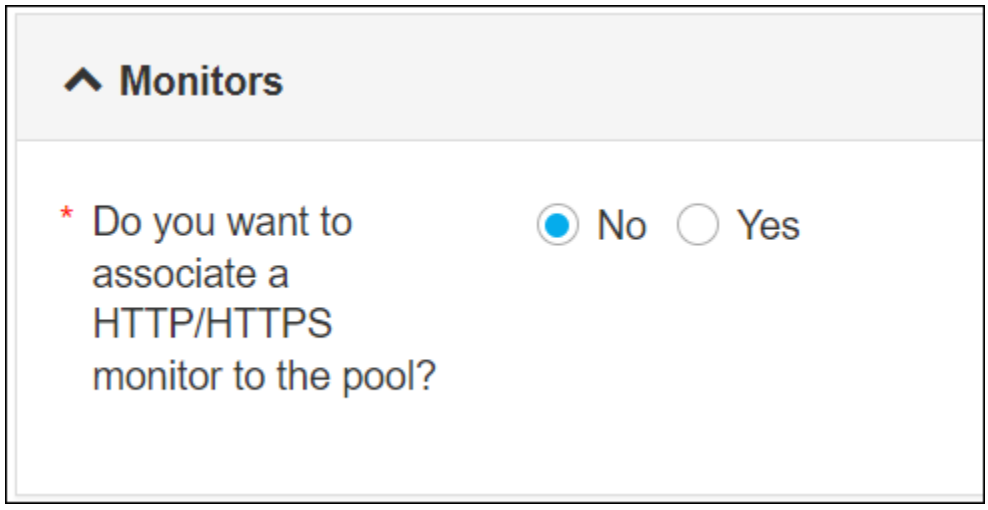
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11. The following table provides the field description for the **Pool Members** section of Form Input:

Field	Description
***Pool member Type**	Select a pool member type from the deopdown list. The types are: • **Generic Host** (default) - When you select this option you need to select GTM server and virtual servers. • **BIG-IP System** -. When you select this option you need to select GTM server and existing VIP.
***GTM Server**	Select a GTM server from the dropdown list.
***Virtual Servers**	Select the virtual servers from the dropdown list

12. Enter or select the field information in the **Monitors** section of Form Input.



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13. The following table provides the field description for the **Monitors** section of Form Input:

Field	Description
***Do you want to associate a HTTP/HTTPS monitor to the pool**	Select Yes to associate a HTTP/HTTP monitor, and then select monitor from the dropdown list otherwise select No.

14. Click the **Submit** button.
    The **Confirmation** popup opens.

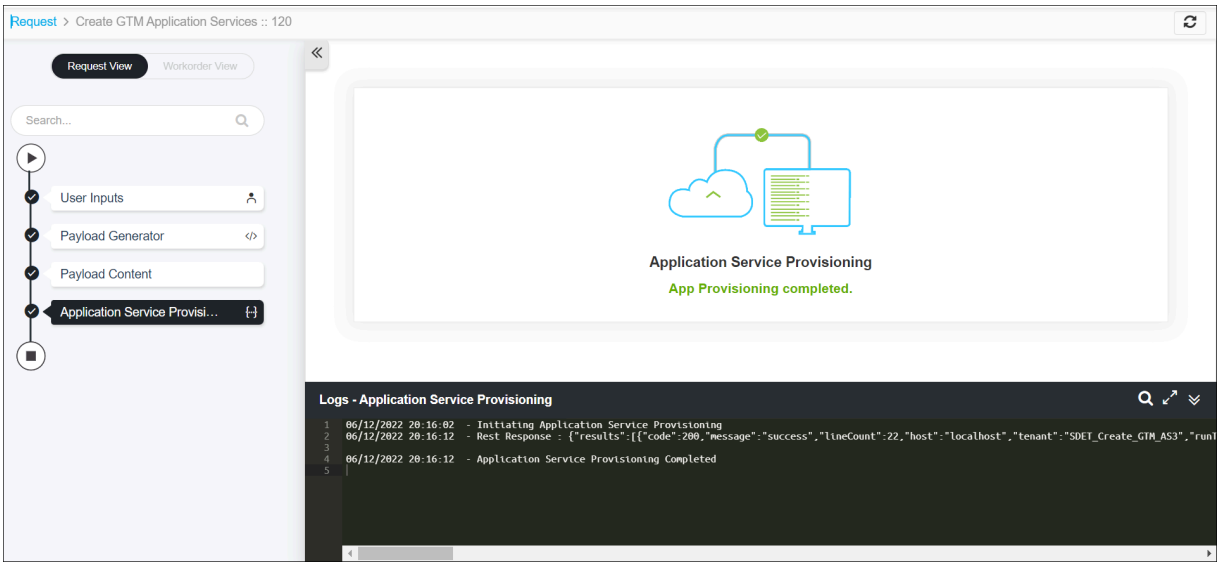
> **Note:**
> - If you want to save this form to edit it later, click the **Save Draft** button, and then click **Ok** in the **Confirmation** popup window. The form will be saved as **Open** request under **Request** > **My Request**.
> - If you want to cancel this form, click the **Cancel** button.

15. Click **Ok** to submit the form.
    The validation starts automatically and reaches the **Review** stage.

> **Note:**
> - If there is any failure at this stage, start a new request by providing the correct data.
> - Alternatively, select the failed request and clone it. Update the correct input data in the form input, and submit the workflow again.

16. The workflow is created.

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Note: The stages of the request are shown in the left side of the screen. To view a particular stage of the request, click the respective stage.

Modify GTM Application Services

This workflow modifies GTM Wide-IP along with GTM pool and monitor association.

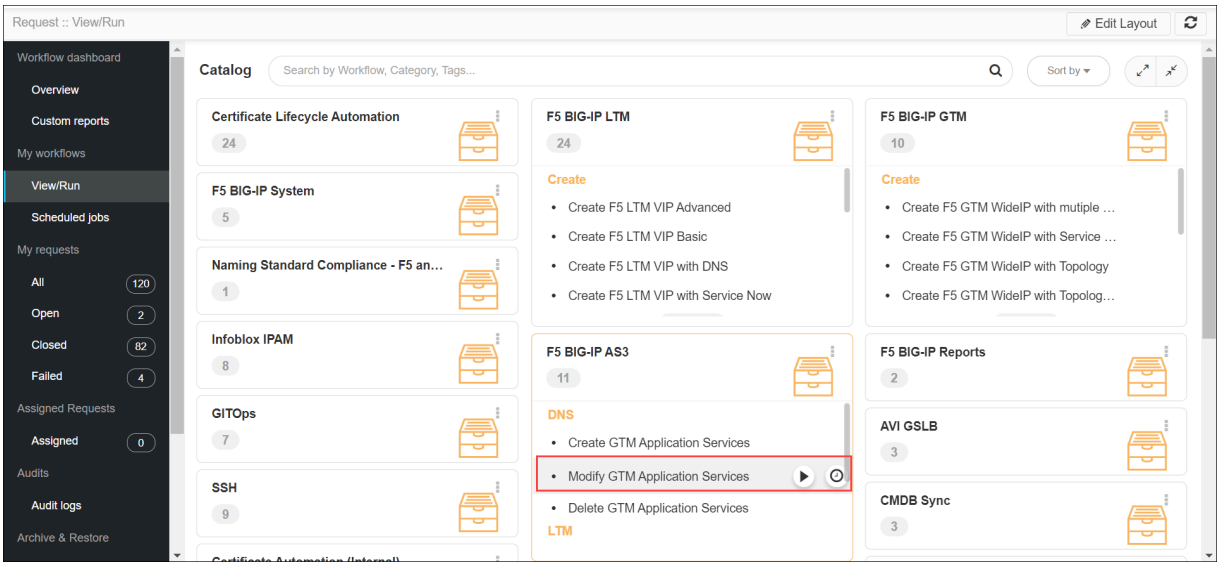
Pre-requisites

- The AS3 service has to be enabled in the target F5 device.
- F5 device list displays only AS3 service enabled and active devices.

To run this workflow,

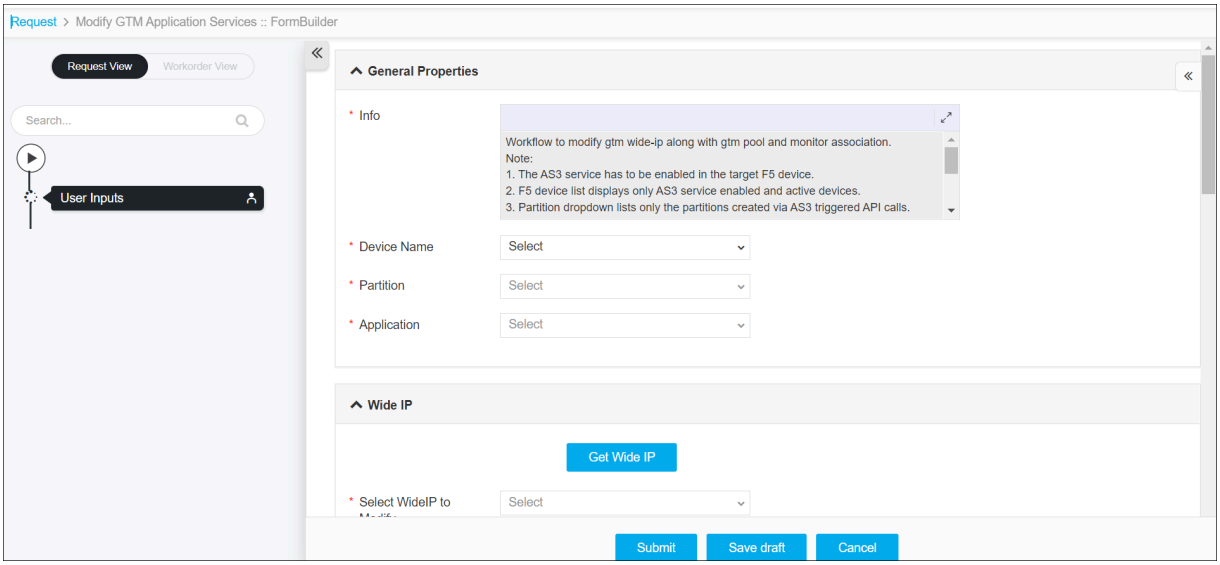
1. Go to ☰ **Menu** > **Request** > **View/Run**.
   The Workflow Catalog page appears.
2. In the Workflow Catalog page, hover over the **Modify F5 GTM WideIP** workflow.
   The Run and Schedule buttons are shown.

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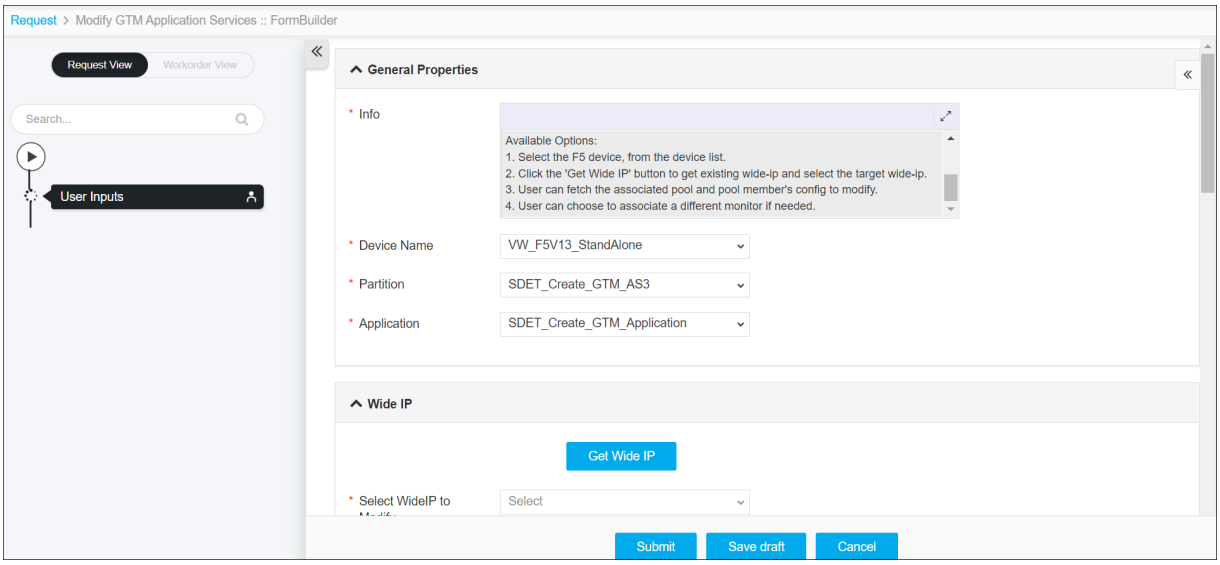
3. Click the Run  button.

   The Form Input page opens:

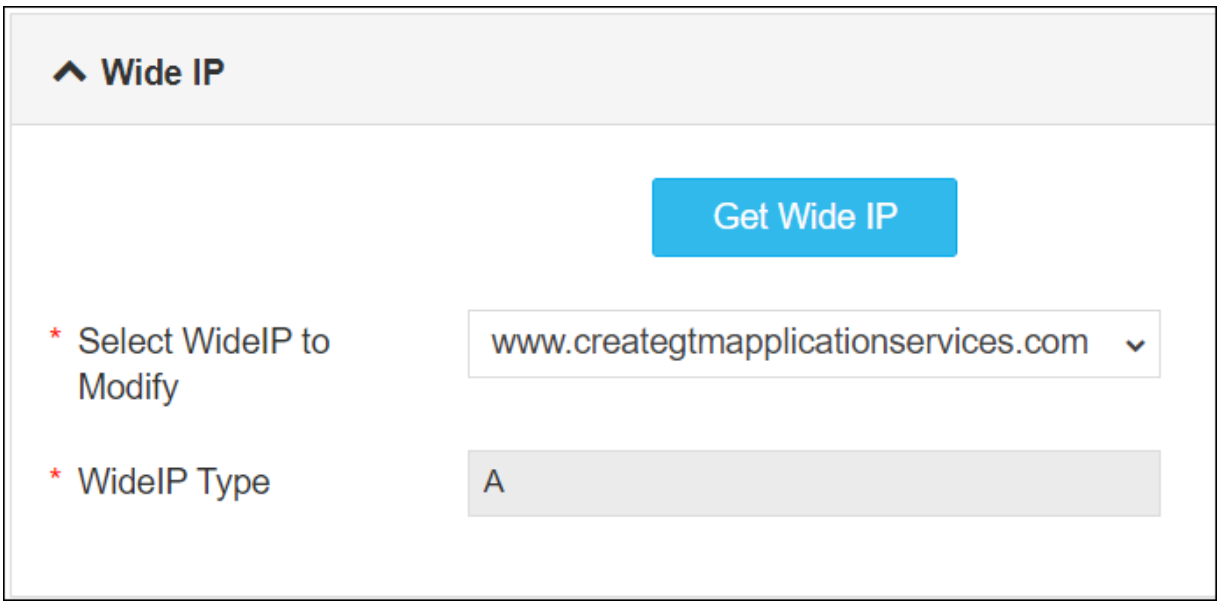


4. Select the Device Name to modify, and then choose the Partition and Application details of the device that are to be modified.

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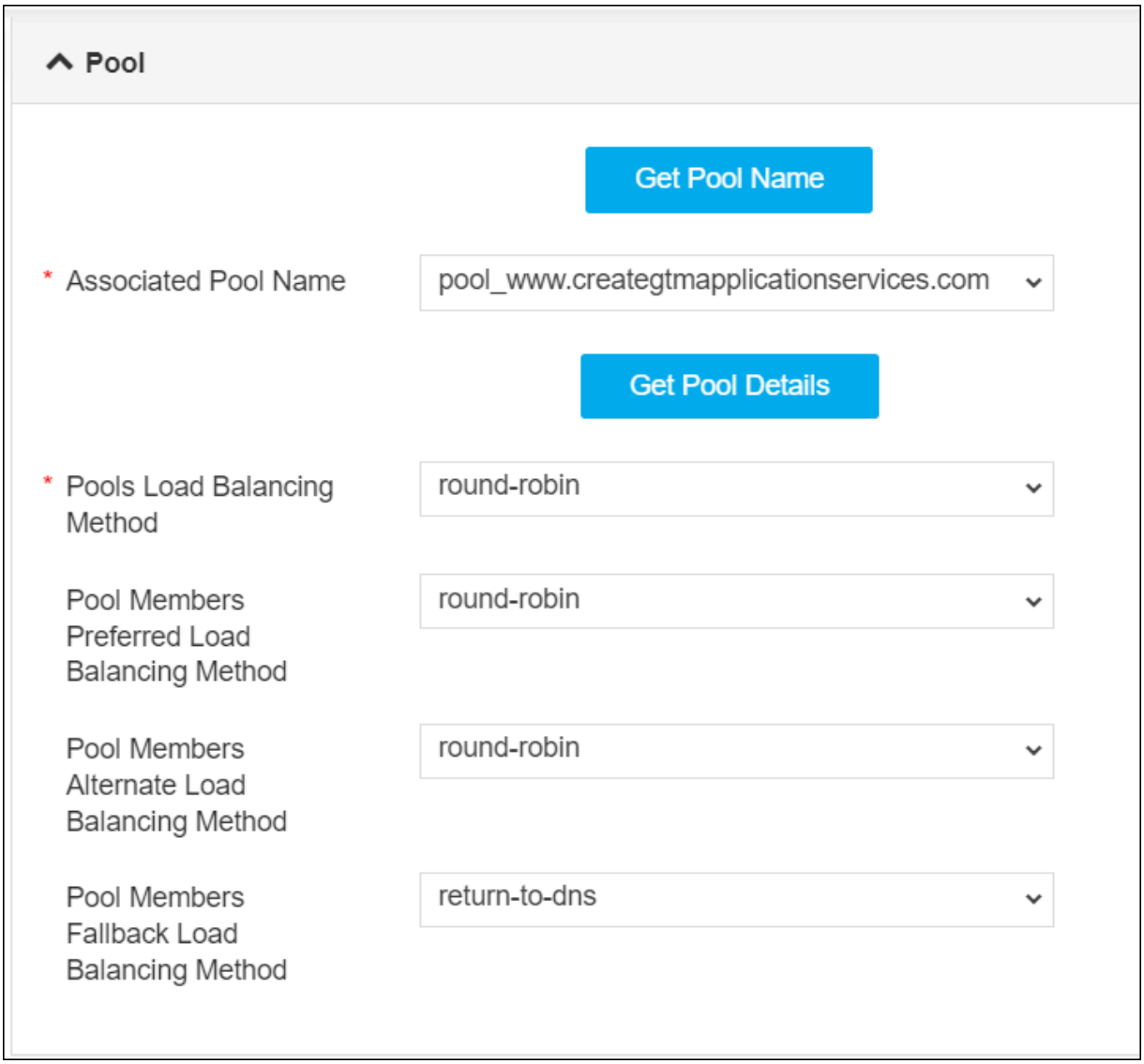


5. Click the **Get Wide IP** button to get an existing Wide-IP and select the target Wide-IP.



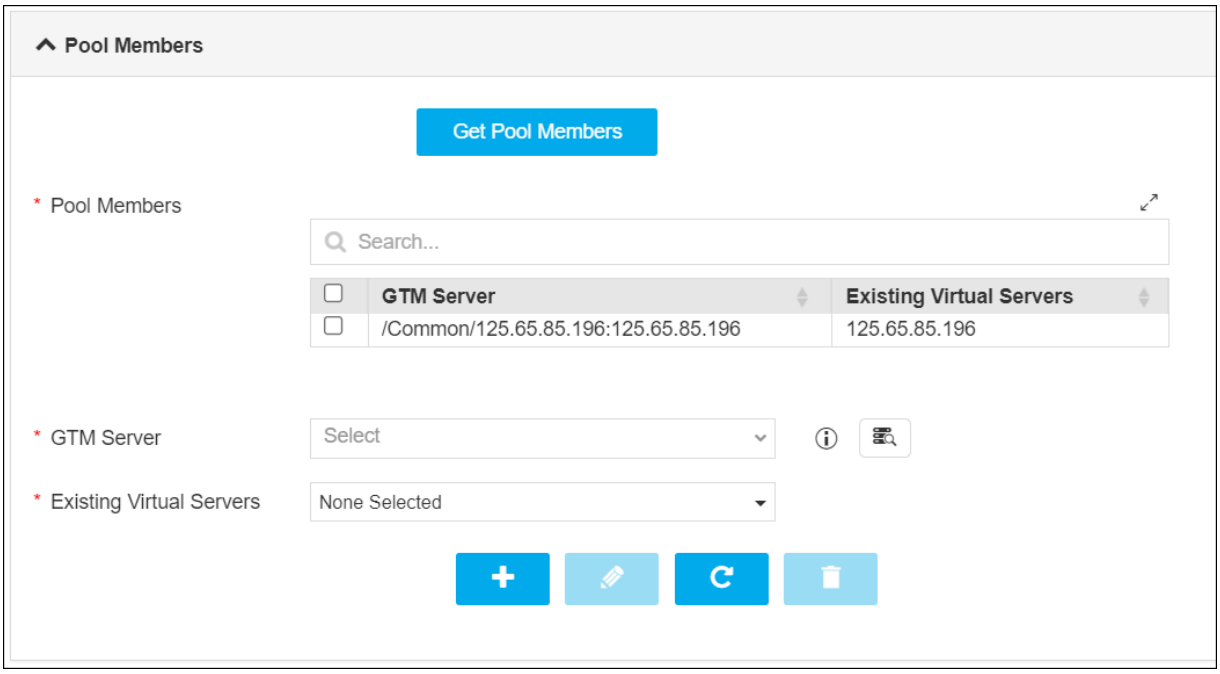
6. Fetch the associated pool by clicking the **Get Pool Name** button, and then fetch the pool's details by clicking the **Get Pool Details** button to modify.

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7. Fetch the pool member's configuration by clicking the **Get Pool Members** button to modify.

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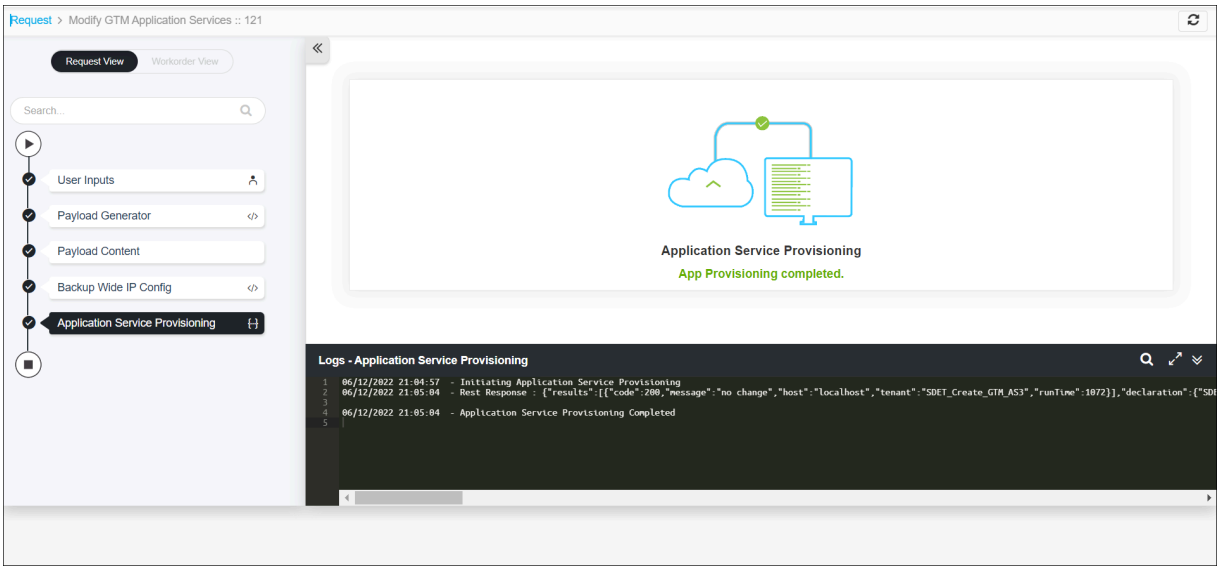
8. Update the necessary details, and then click the **Submit** button.
   The validation starts automatically stage.

Note:

- If you want to save this form to edit it later, click the **Save Draft** button, and then click **Ok** in the Confirmation popup window. The form will be saved as Open request under **Request** > **My Request**.
- If you want to cancel this form, click the **Cancel** button.

9. The workflow is created and GTM Wide-IP along with GTM pool and monitor association are updated.

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Note: The stages of the request are shown in the left side of the screen. To view a particular stage of the request, click the respective stage.

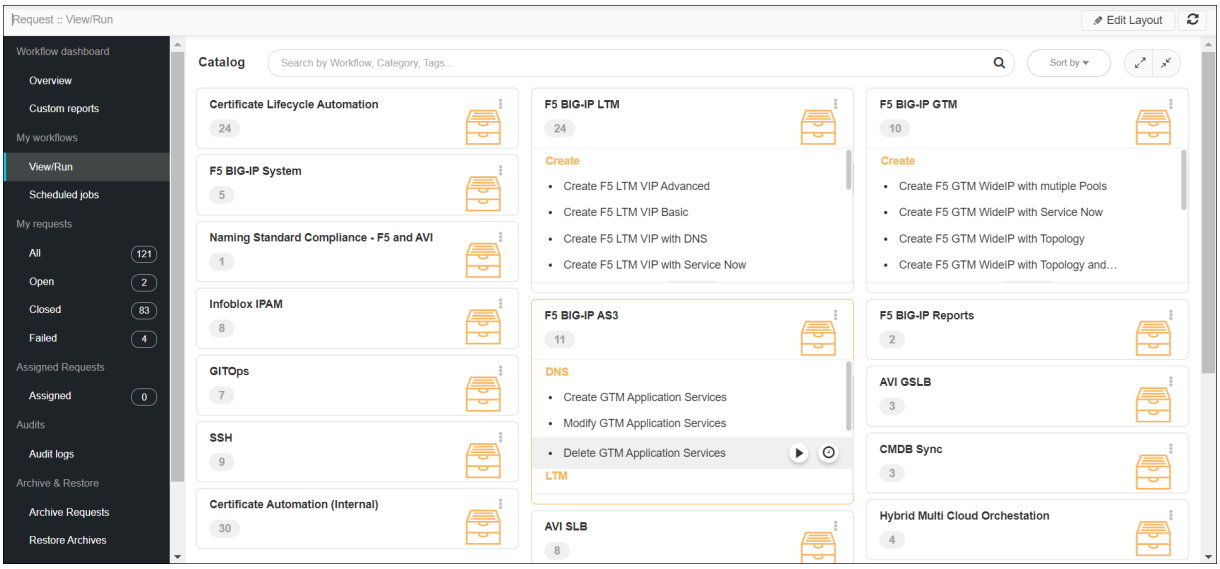
Delete GTM Application Services

By running this workflow, you can delete a GTM Wide-IP along with GTM pool.

To delete GTM application services,

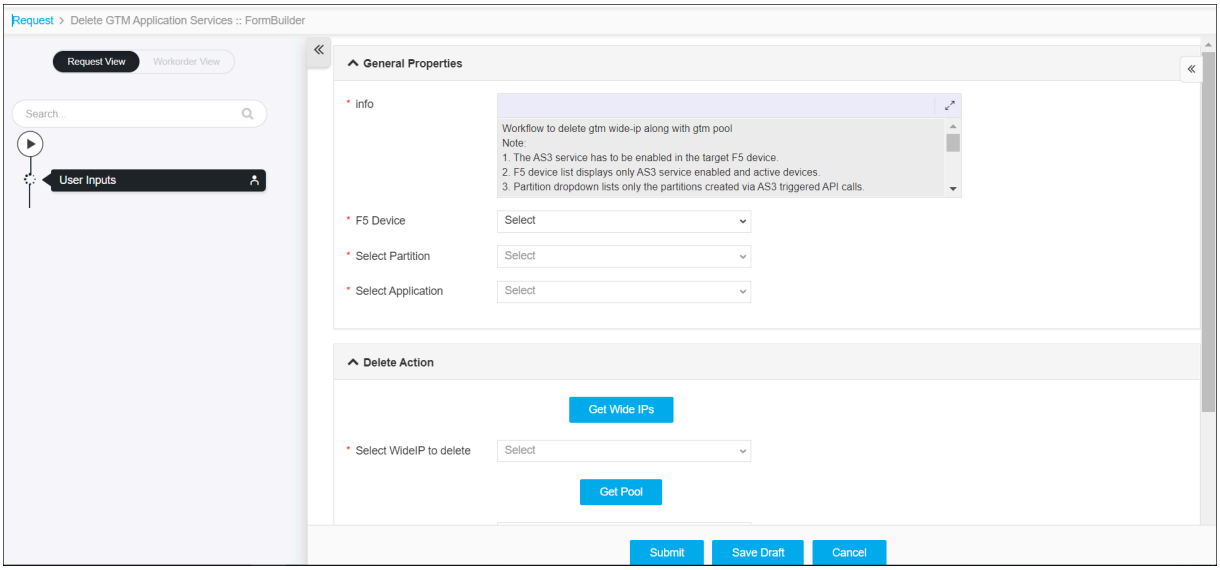
1. Go to **Menu** > **Request** > **View/Run**.
   The Workflow Catalog page appears.

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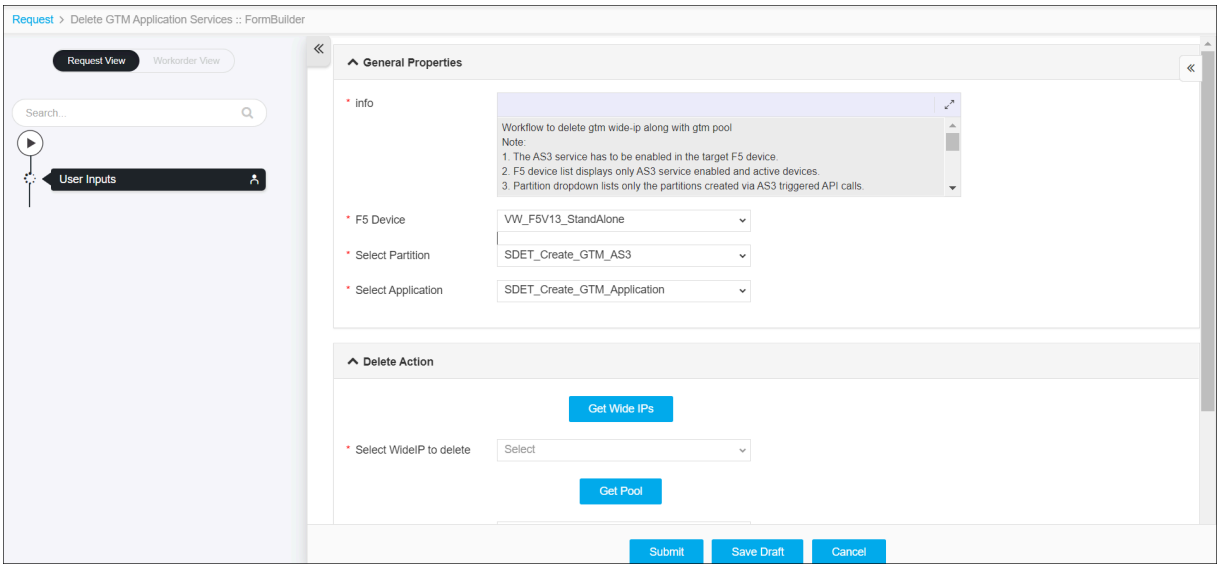
2. In the Workflow Catalog page, hover over the **Delete GTM Application Service** workflow.
   The Run and Schedule buttons are shown.

3. Click the Run  button.
   The Form Input page opens:



4. Select the Device Name, and then choose the Partition and Application details of the device that are to be deleted.

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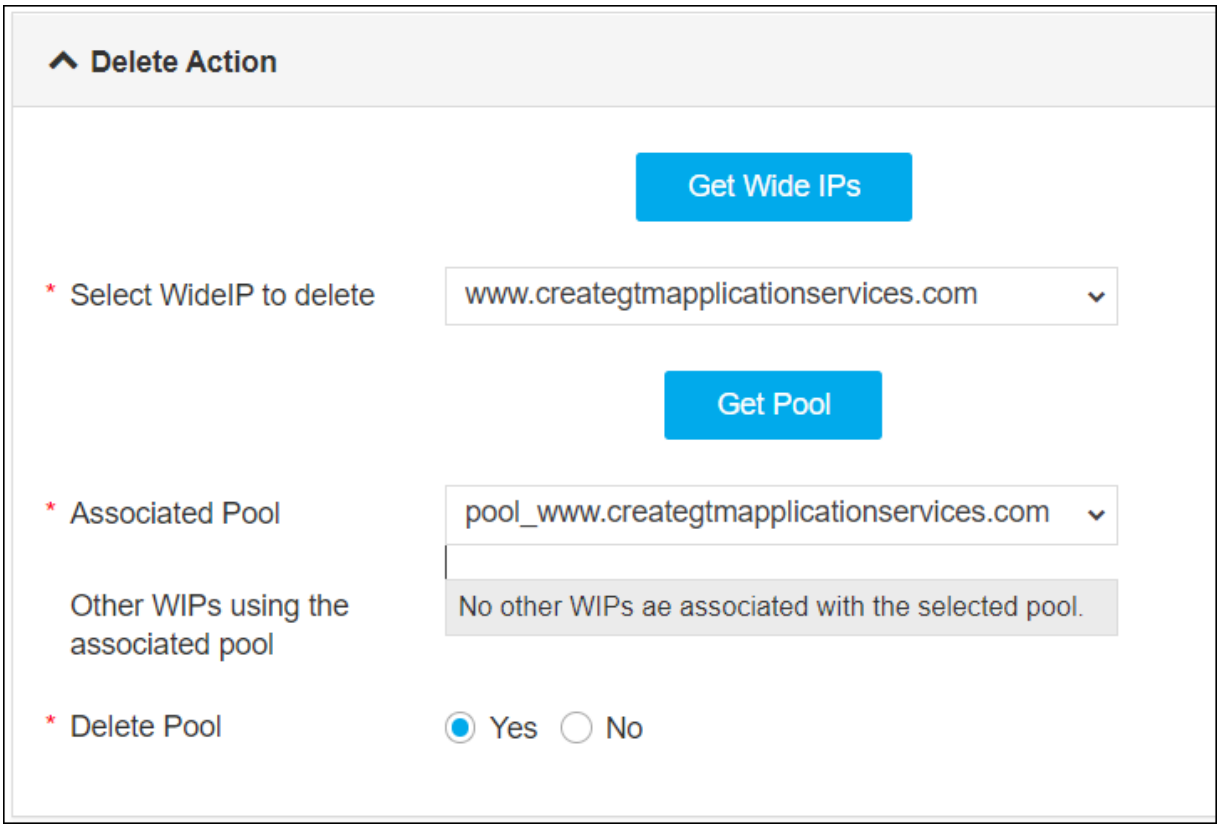


5. Fetch the following details:

   - Wide IP by clicking the **Get Wide IPs** button, and then select a Wide IP from the dropdown list.
   - Pool by clicking the **Get Pool** button, and then select an associated pool from the dropdown list.

     Click **Yes** to delete the associated pool otherwise select No.

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6. Click the **Submit** button.
   The Confirmation popup opens.

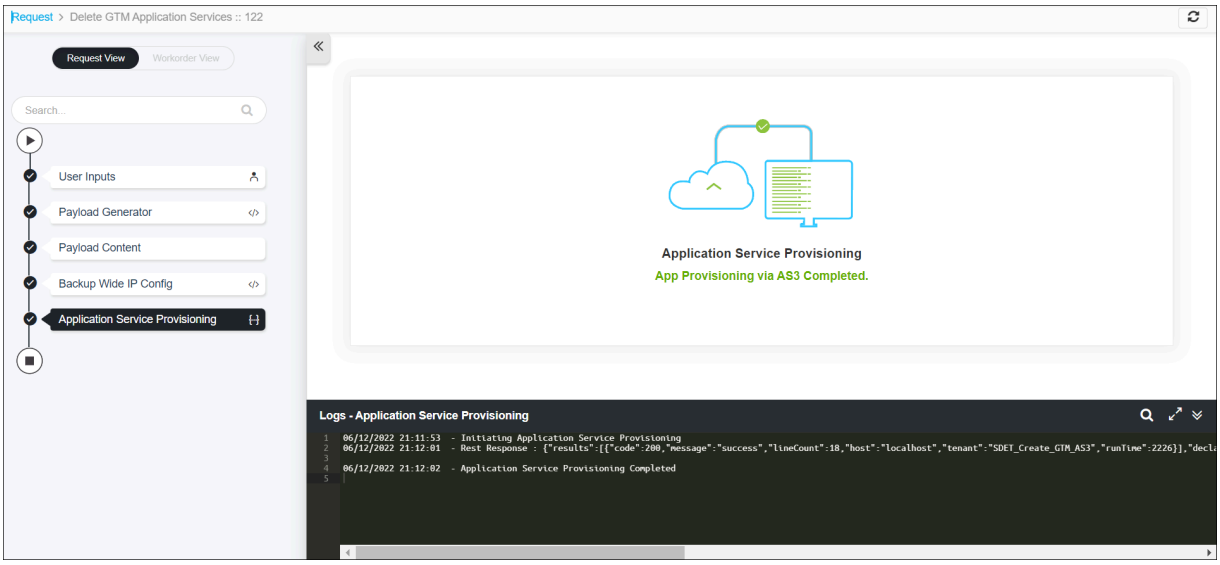
> **Note:**
> - If you want to save this form to edit it later, click the **Save Draft** button, and then click **Ok** in the Confirmation popup window. The form will be saved as Open request under **Request** > **My Request**.
> - If you want to cancel this form, click the **Cancel** button.

7. Click **Ok** to submit the form.
   The validation starts automatically.

> **Note:**
> - If there is any failure at this stage, start a new request by providing the correct data.
> - Alternatively, select the failed request and clone it. Update the correct input data in the form input, and submit the workflow again.

8. The workflow is created and the Wide IP along with its pool are deleted.

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Note: The stages of the request are shown in the left-side of the screen. To view a particular stage of the request, click the respective stage.

LTM

- Create LTM Application Services
- Modify LTM Application Services
- Delete LTM Application Services
- Fetch Application Services

Create LTM Application Services

This workflow creates virtual server along with pool and other objects using application services (AS3) in F5.

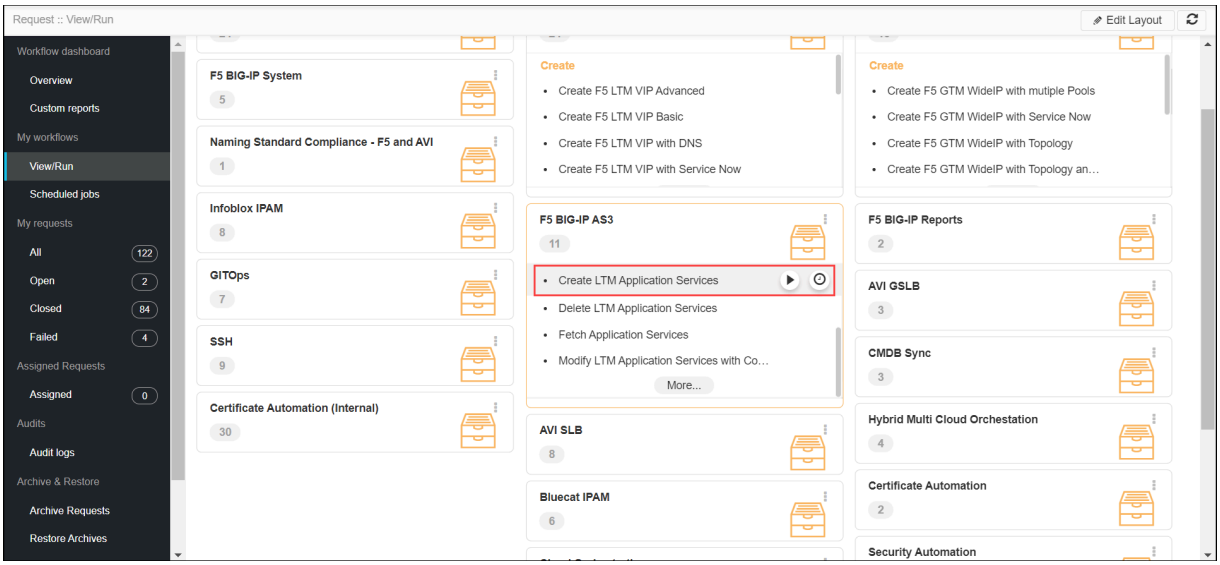
Pre-requisites

- The AS3 service has to be enabled in the target F5 device.
- F5 device list displays only AS3 service enabled and active devices.

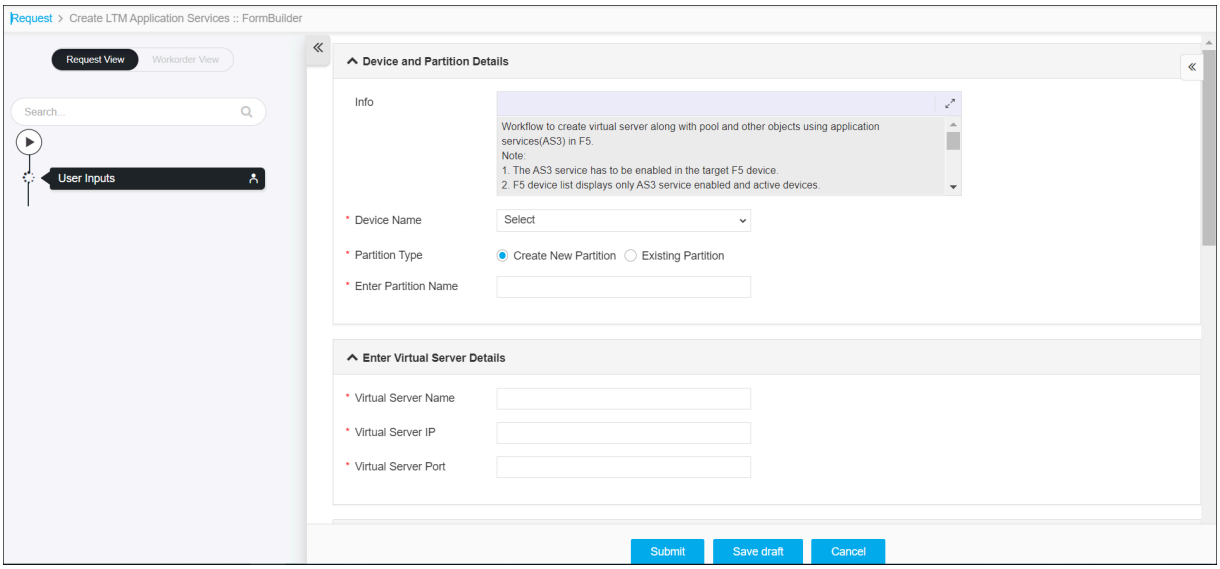
To run this workflow,

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1. Go to **Menu** > **Request** > **View/Run**.
   The Workflow Catalog page appears.
2. In the Workflow Catalog page, hover over the **Create LTM Application Services** workflow.
   The Run and Schedule buttons were shown.

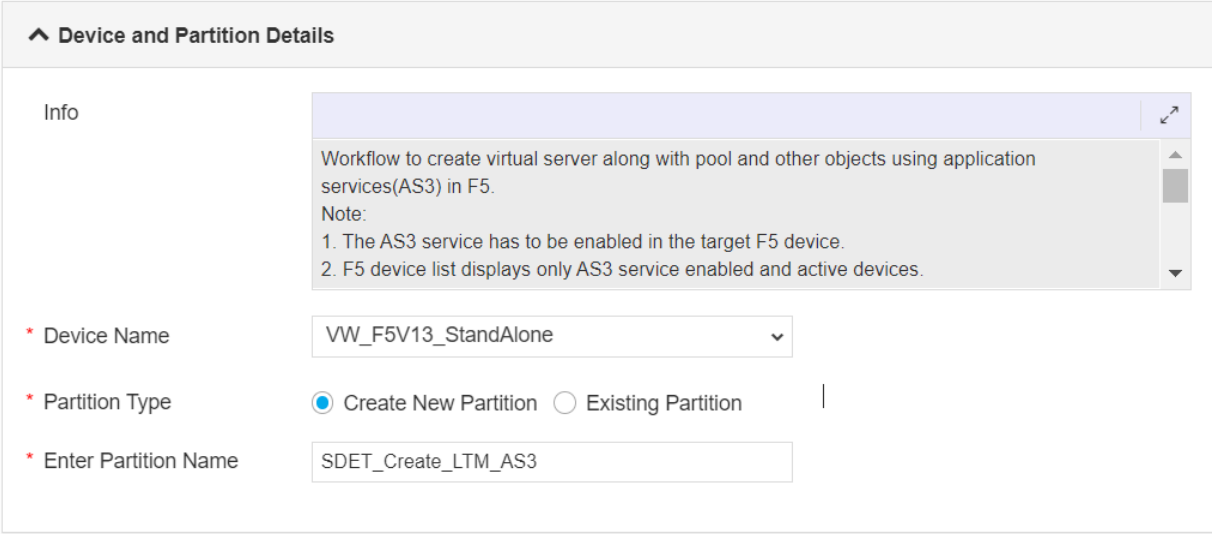


3. Click the Run  button.
   The Form Input page opens:



4. Enter or select the field information in the **Device and Partition Details** section of Form Input.

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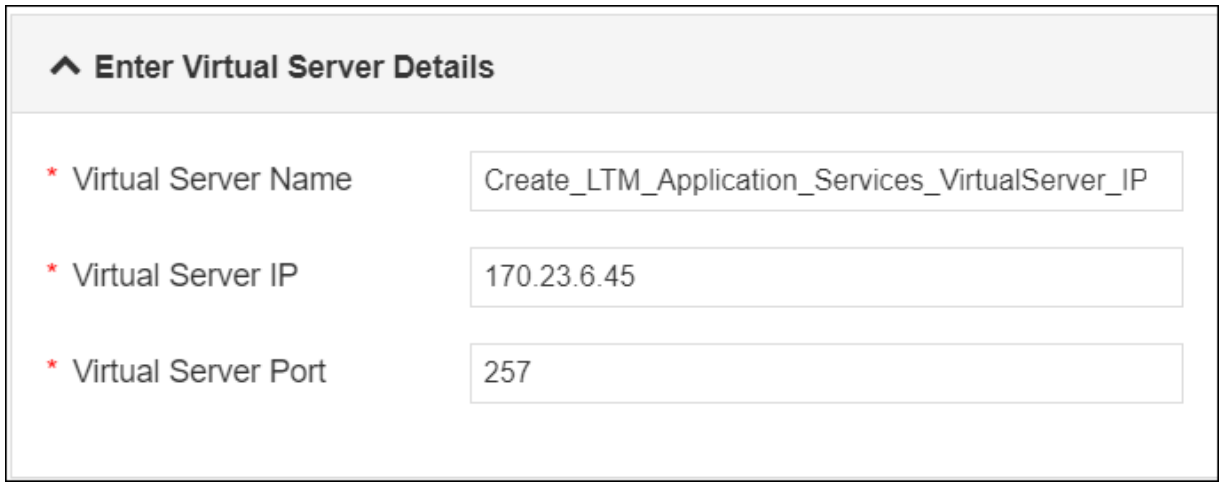


5. The following table provides the field description for the **Device and Partition Details** section of Form Input:

Field	Description
****Device Name**	Select a device from the dropdown list. Only the devices that are AS3 enabled and active are displayed.
***Partition Type**	Select a partition type. The options are: • Create New Partition (default) - select this option to create a new partition. • Existing Partition - select this option to choose an existing partition. **Note:** Partition dropdown lists only the partitions created via AS3 triggered API calls.
***Enter Partition Name**	Enter the partition name.

6. Enter or select the field information in the **Enter Virtual Server Details** section of Form Input.

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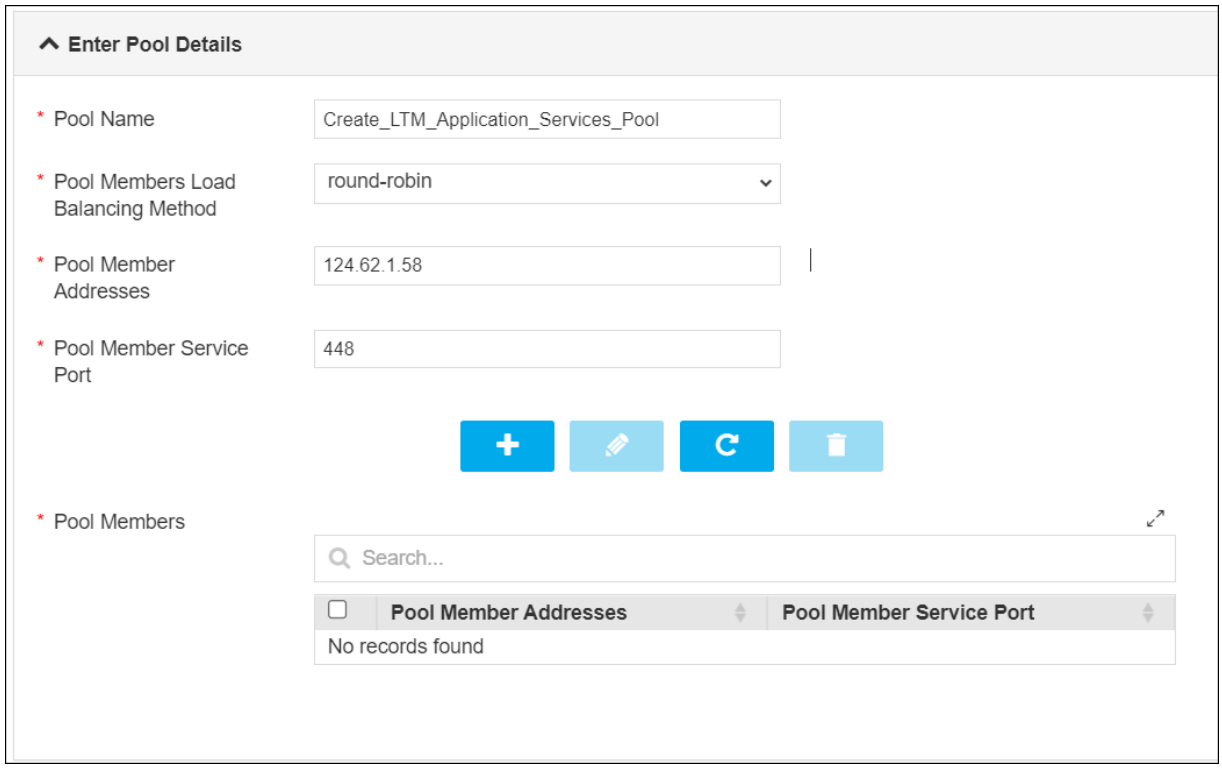


7. The following table provides the field description for the **Enter Virtual Server Details** section of Form Input:

Field	Description
***Virtual Server Name**	Enter the virtual server name.
***Virtual Server IP**	Select virtual server IP address.
***Virtual Server Port**	Enter virtual server port.

8. Enter or select the field information in the **Enter Pool Details** section of Form Input.

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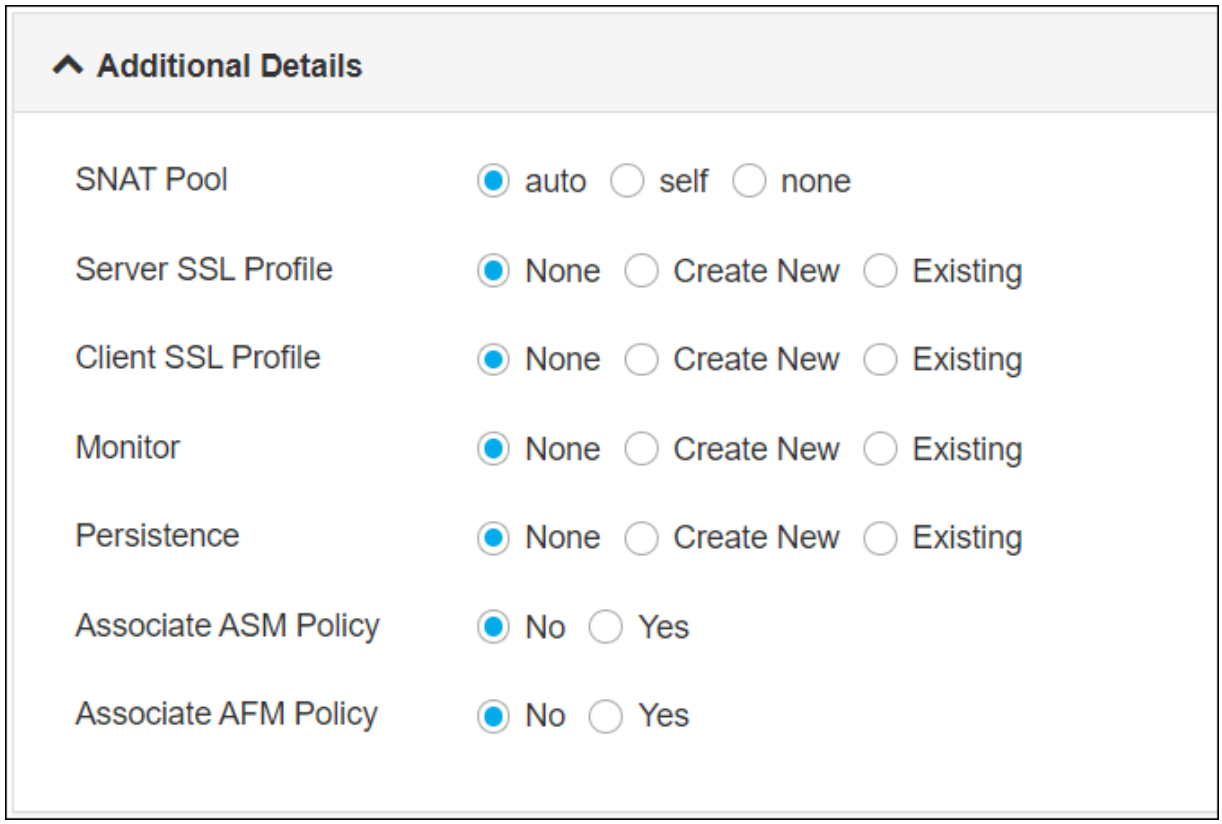


9. The following table provides the field description for the **Enter Pool Details** section of Form Input:

Field	Description
***Pool Name**	Enter the pool name.
***Pools Load Balancing Method**	Select a load balancing method for the pools.
***Pool Member addresses**	Enter pool member' IP addresses.
***Pool Member Service Port**	Enter pool member service port.
***Pool Members**	Click the add button to add the pool member's details to the Pool Members table. **Note:** After adding the pool member's details to the Pool Members table, you can modify them.

10. Select the field information in the **Additional Details** section of Form Input.

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11. Click the **Submit** button.
    The **Confirmation** popup opens.

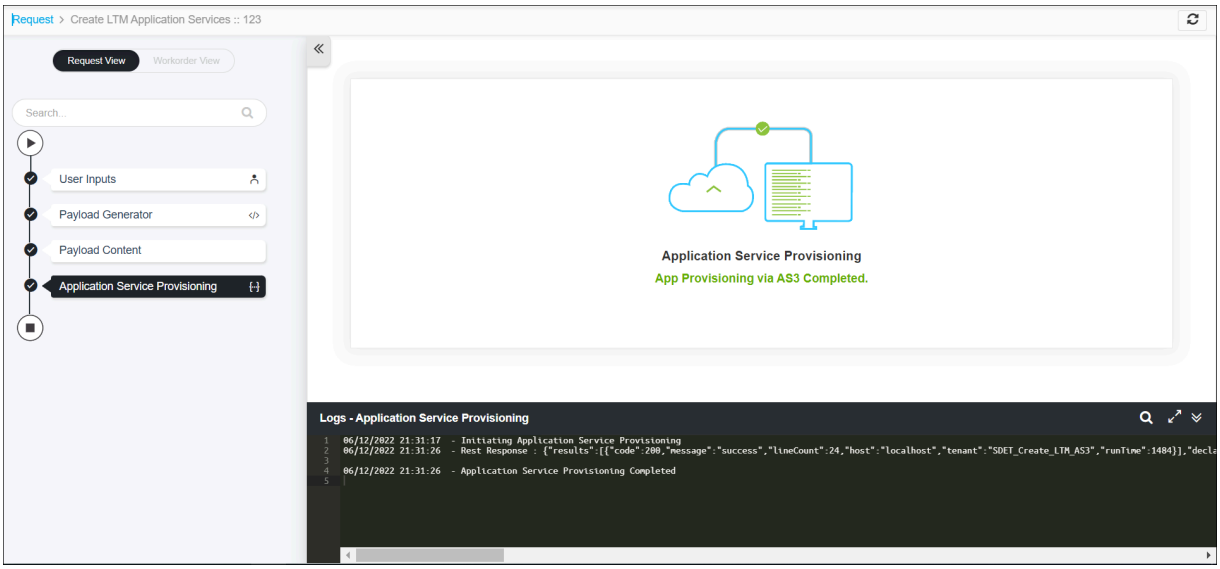
> **Note:**
> - If you want to save this form to edit it later, click the **Save Draft** button, and then click **Ok** in the **Confirmation** popup window. The form will be saved as **Ope**n request under **Request** > **My Request**.
> - If you want to cancel this form, click the **Cancel** button.

12. Click **Ok** to submit the form.
    The validation starts automatically.

> **Note:**
> - If there is any failure at this stage, start a new request by providing the correct data.
> - Alternatively, select the failed request and clone it. Update the correct input data in the form input, and submit the workflow again.

13. The workflow is created.

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Note: The stages of the request are shown in the left side of the screen. To view a particular stage of the request, click the respective stage.

Modify LTM Application Services

This workflow modifies virtual server along with pool and other objects using application services (AS3) in F5.

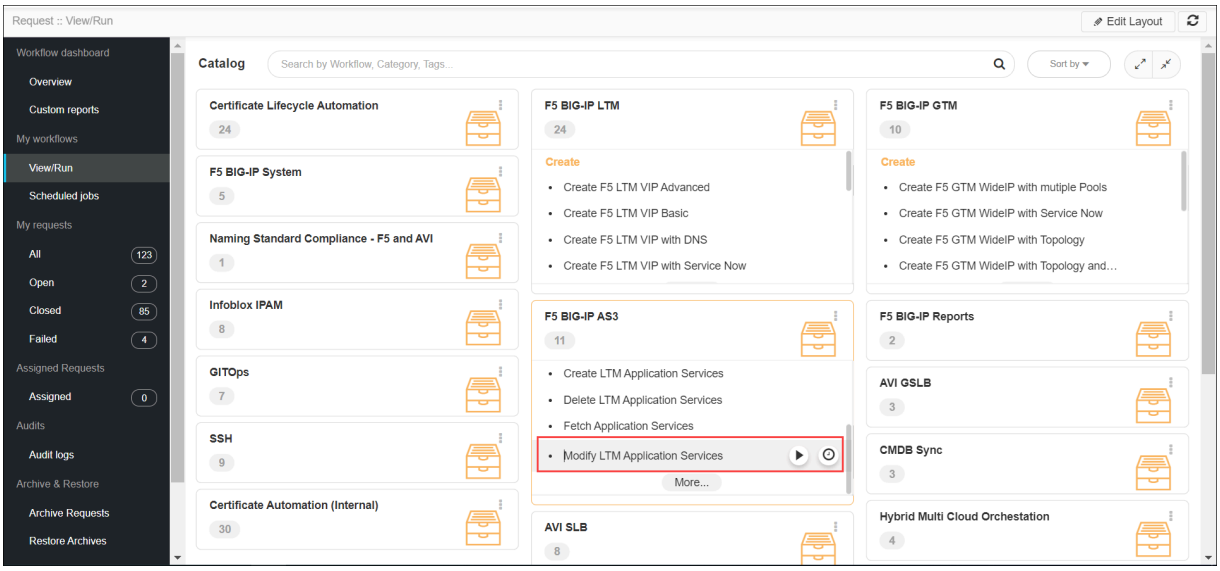
Pre-requisites

- The AS3 service has to be enabled in the target F5 device.
- F5 device list displays only AS3 service enabled and active devices.

To run this workflow,

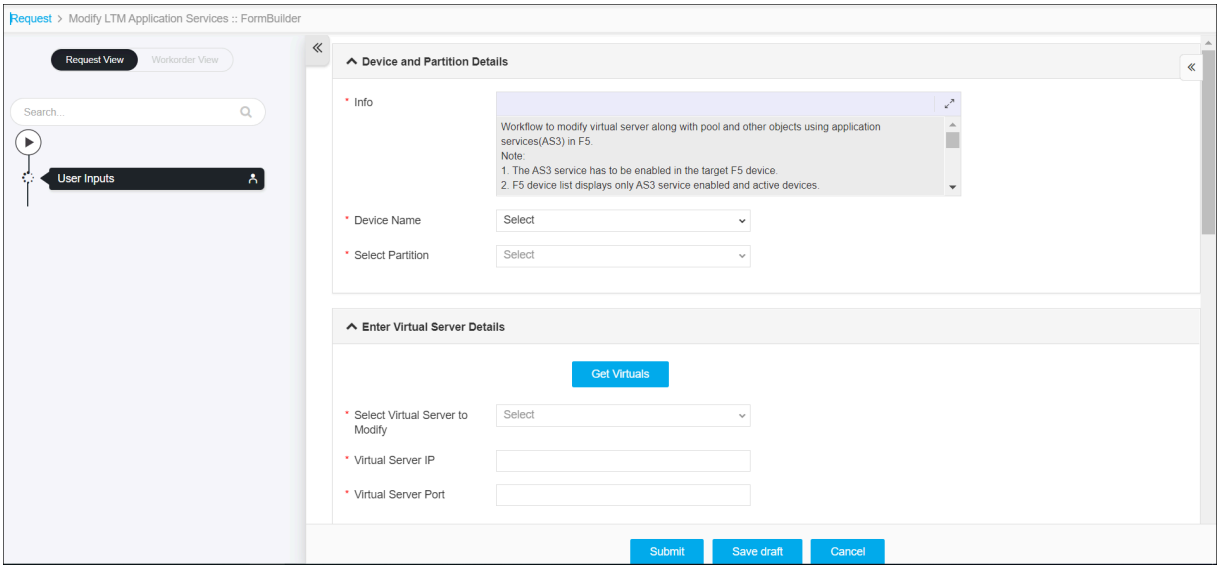
1. Go to ☰ **Menu** > **Request** > **View/Run**.
   The Workflow Catalog page appears.
2. In the Workflow Catalog page, hover over the **Modify F5 LTM WideIP** workflow.
   The Run and Schedule buttons are shown.

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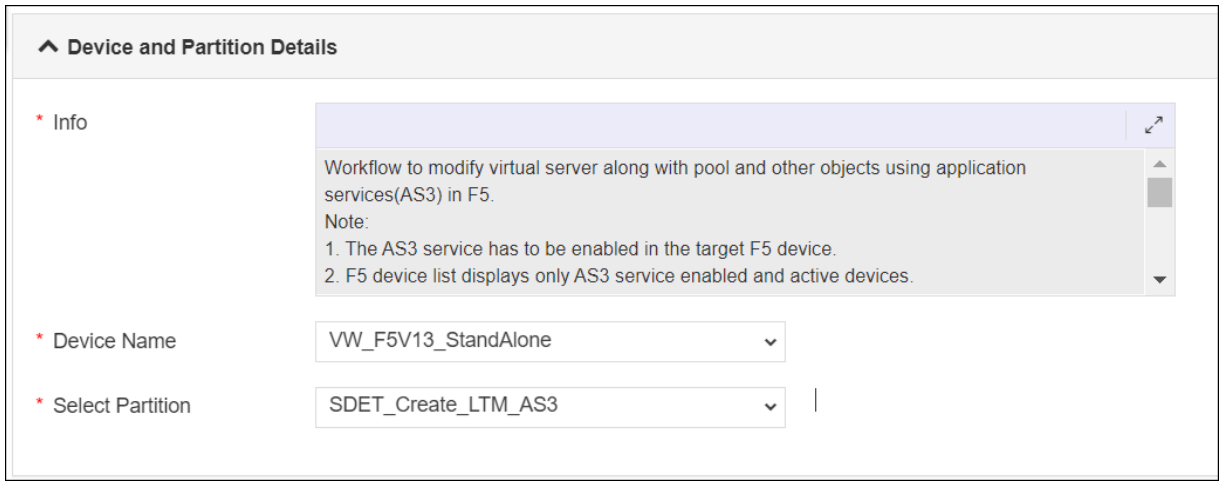
3. Click the Run  button.

   The Form Input page opens:

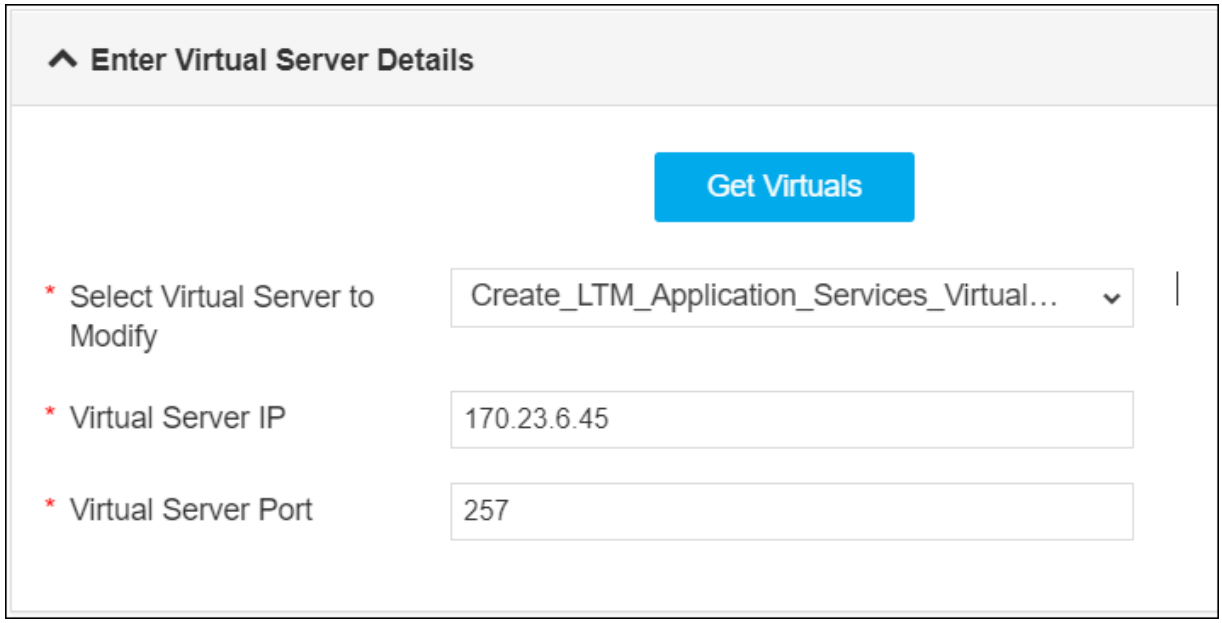


4. Select the Device Name to modify, and then choose the Partition of the device that are to be modified.

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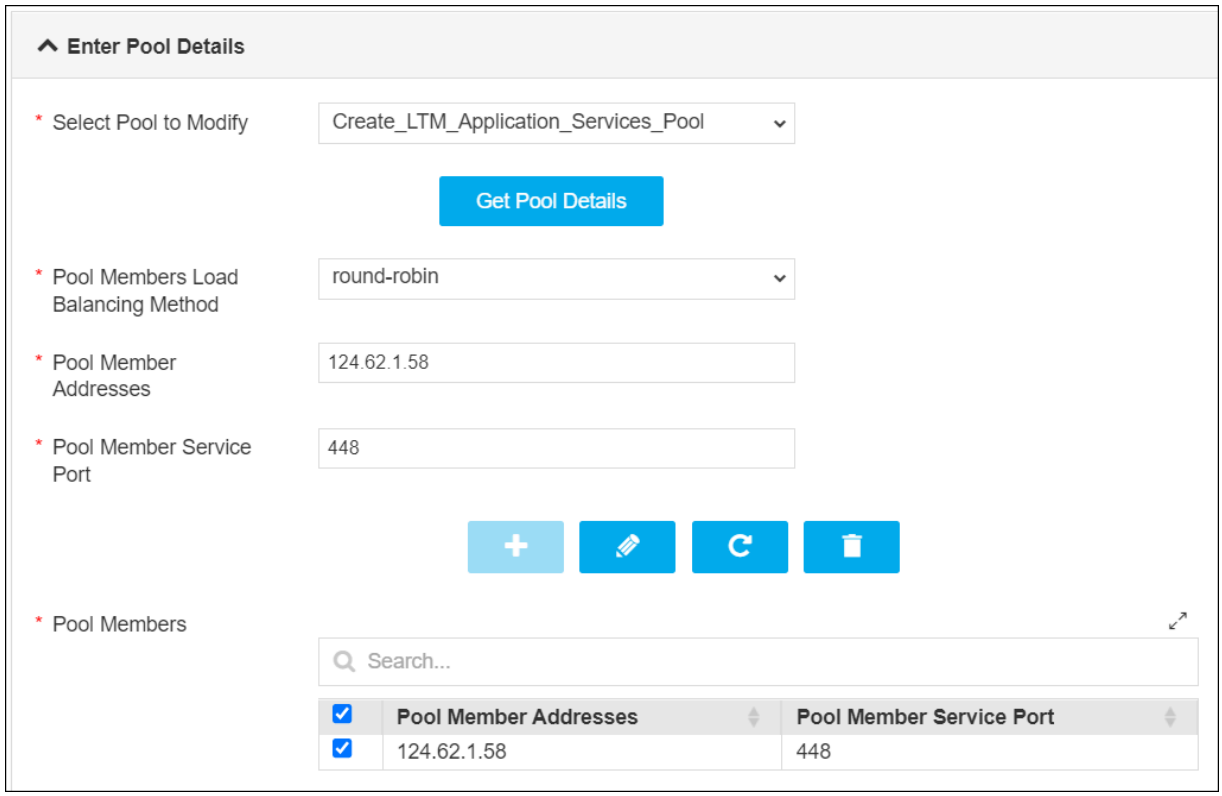


5. Click the **Get Virtuals** button to get the virtual server details and select the modify the virtual server details as needed.



6. Fetch the associated pool by clicking the **Get Pool Name** button, and then fetch the pool's details by clicking the **Get Pool Details** button to modify.

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Note: Select the check box in the Pool Members table for the pool member to modify.

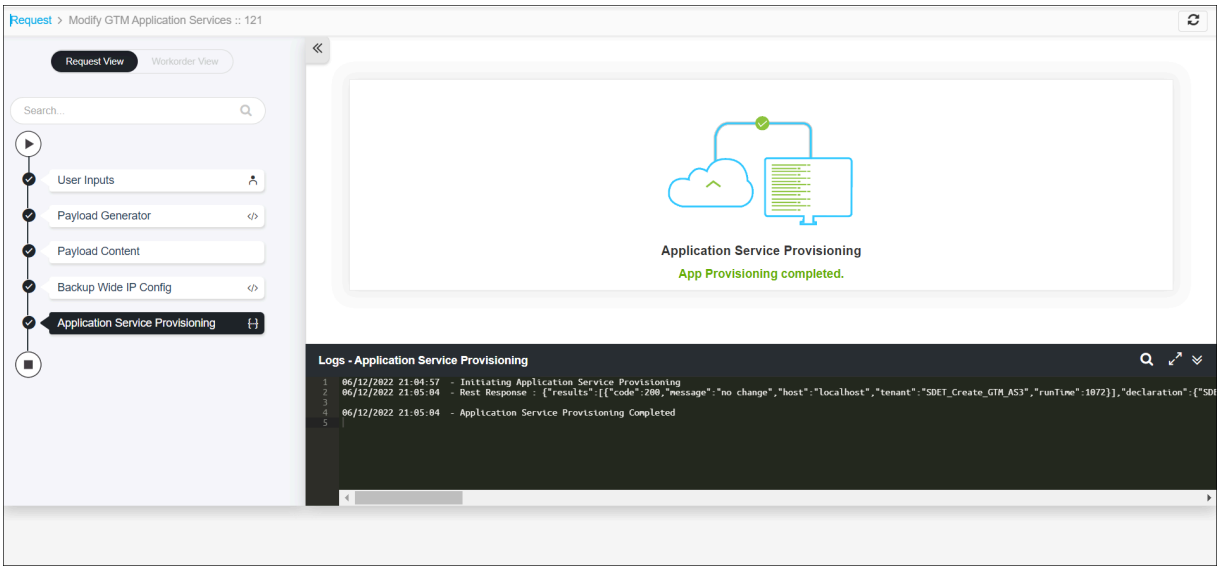
7. Update the necessary details, and then click the **Submit** button.
   The validation starts automatically stage.

Note:

- If you want to save this form to edit it later, click the **Save Draft** button, and then click **Ok** in the Confirmation popup window. The form will be saved as Open request under **Request** > **My Request**.
- If you want to cancel this form, click the **Cancel** button.

8. The workflow is created with modified details..

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Note: The stages of the request are shown in the left side of the screen. To view a particular stage of the request, click the respective stage.

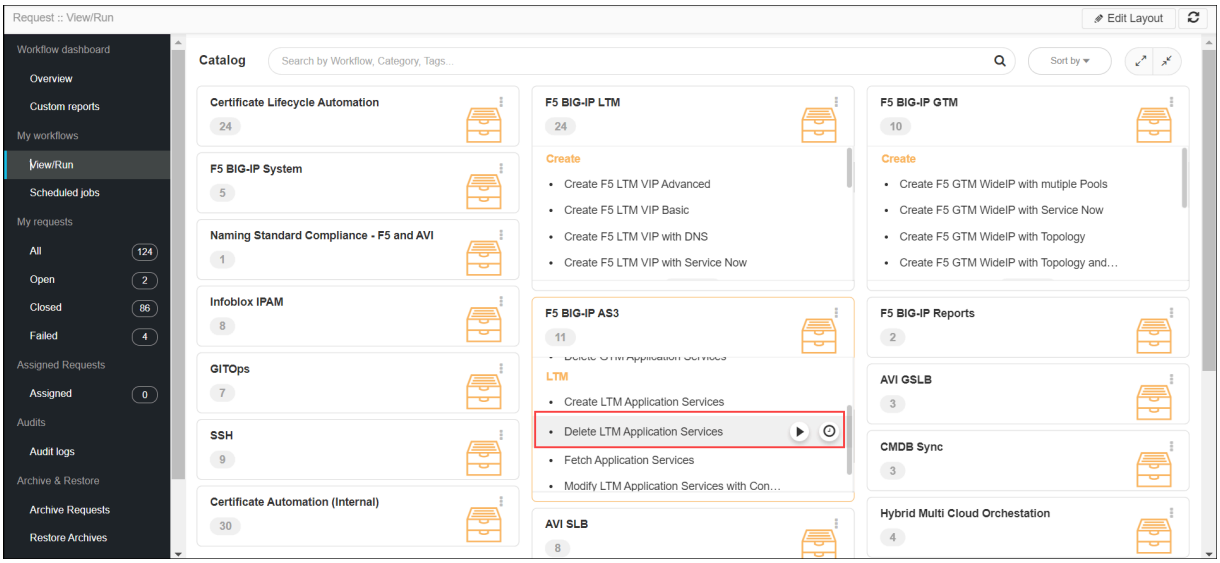
Delete LTM Application Services

By running this workflow, you can delete a virtual server along with pool.

To delete LTM application services,

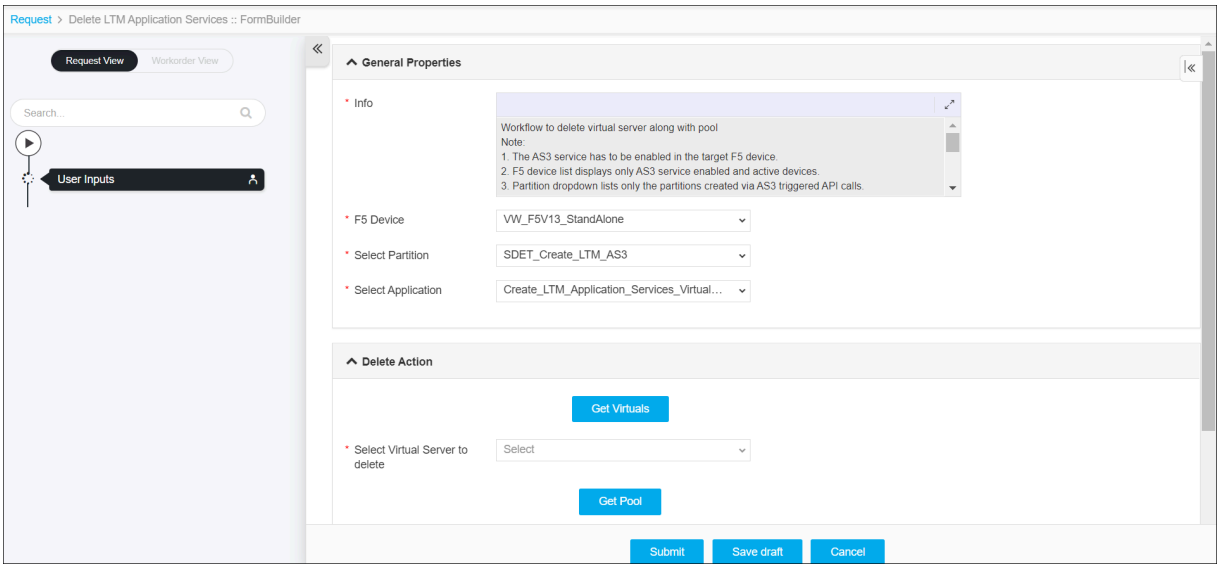
1. Go to **Menu** > **Request** > **View/Run**.
   The Workflow Catalog page appears.
2. In the Workflow Catalog page, hover over the **Delete LTM Application Service** workflow.
   The Run and Schedule buttons are shown.
3. Click the Run button.
   The Form Input page opens:

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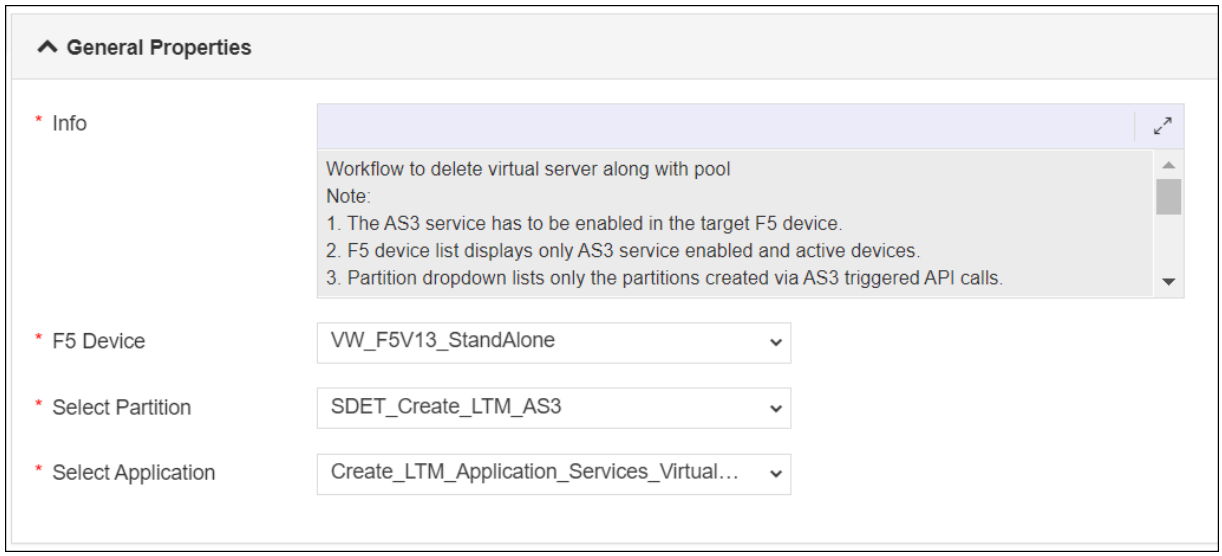
4. Click the Run  button.

   The Form Input page opens:



5. Select the Device Name, and then choose the Partition and Application details of the device that are to be deleted.

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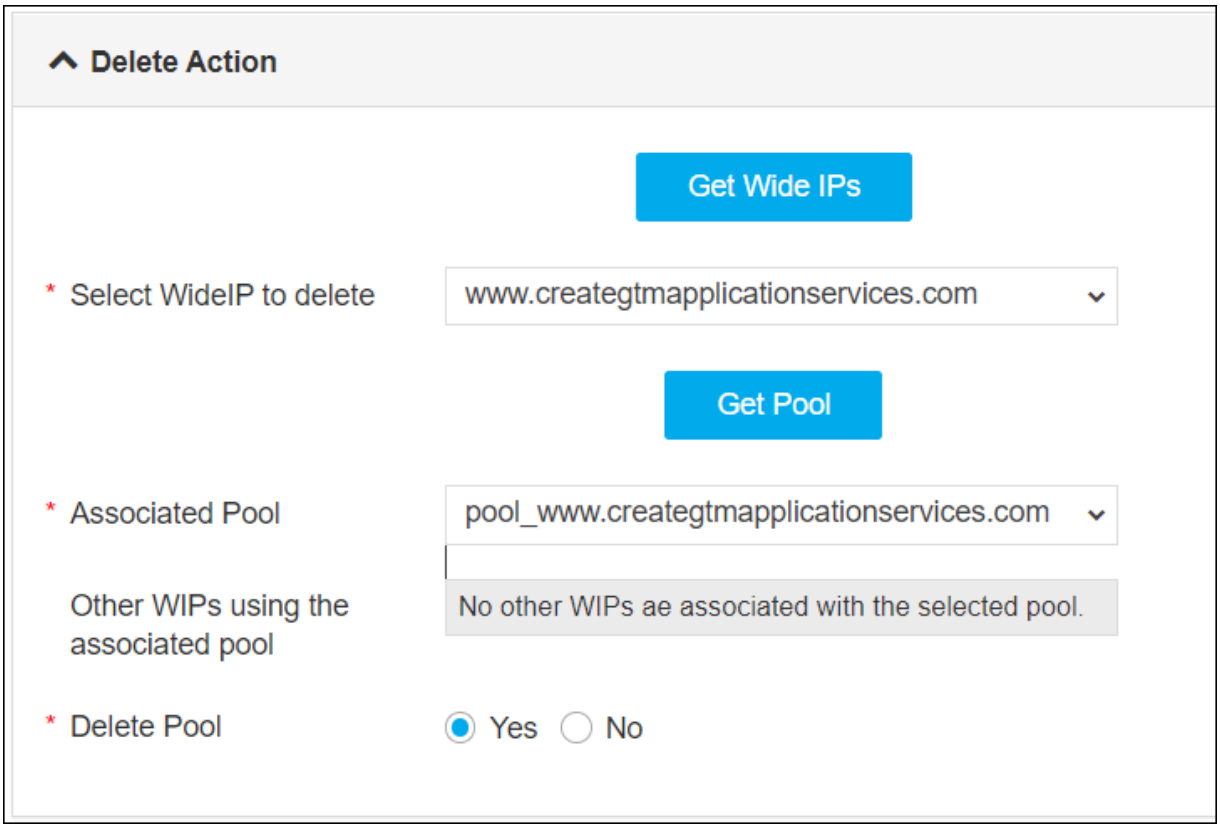
6. Fetch the following details:

   • Wide IP by clicking the **Get Wide IPs** button, and then select a Wide IP from the dropdown list.

   • Pool by clicking the **Get Pool** button, and then select an associated pool from the dropdown list.

   Click **Yes** to delete the associated pool otherwise select No.

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7. Click the **Submit** button.
   The Confirmation popup opens.

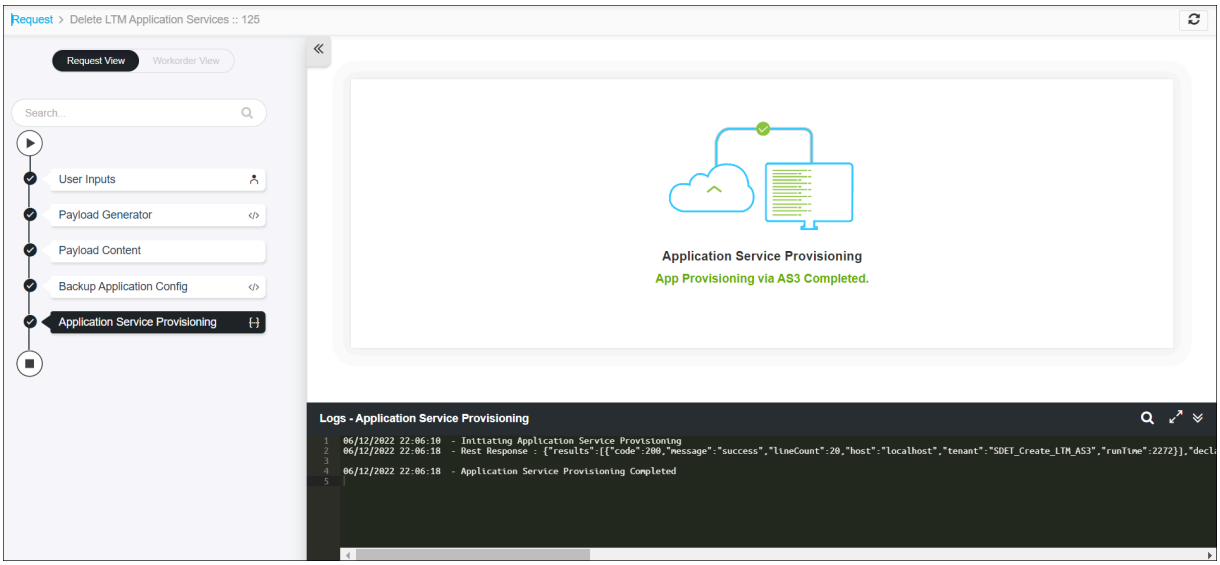
> **Note:**
> - If you want to save this form to edit it later, click the **Save Draft** button, and then click **Ok** in the Confirmation popup window. The form will be saved as Open request under **Request** > **My Request**.
> - If you want to cancel this form, click the **Cancel** button.

8. Click **Ok** to submit the form.
   The validation starts automatically.

> **Note:**
> - If there is any failure at this stage, start a new request by providing the correct data.
> - Alternatively, select the failed request and clone it. Update the correct input data in the form input, and submit the workflow again.

9. The workflow is created and the Wide IP along with its pool are deleted.

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Note: The stages of the request are shown in the left-side of the screen. To view a particular stage of the request, click the respective stage.

Fetch Application Services

This workflow fetches all the AS3 objects of a partition.

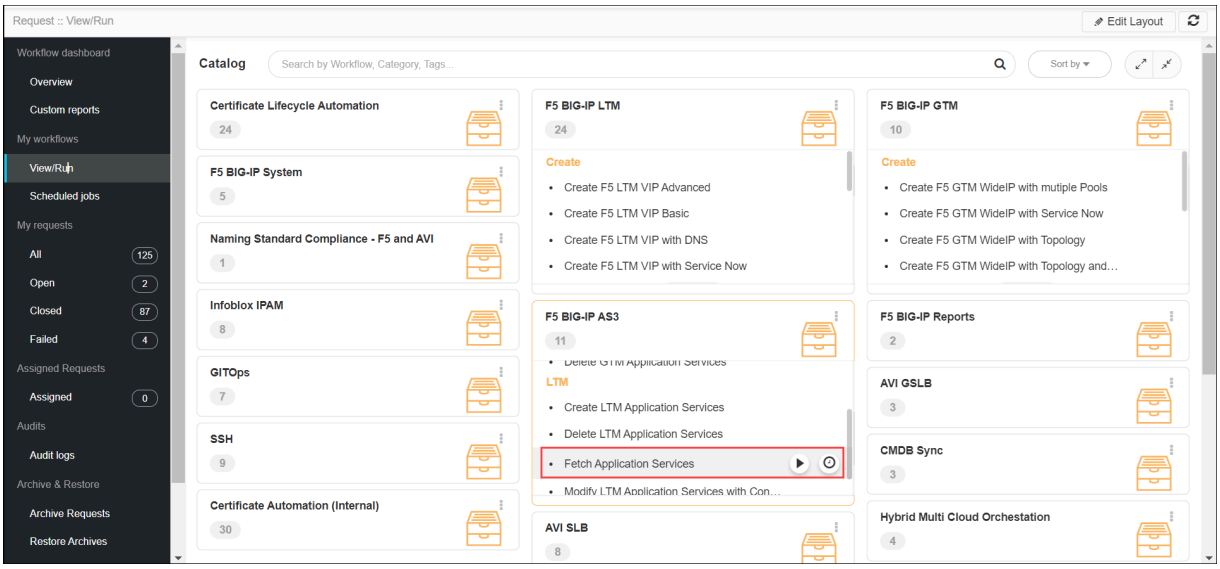
Pre-requisites

- The AS3 service has to be enabled in the target F5 device.
- F5 device list displays only AS3 service enabled and active devices.

To run this workflow,

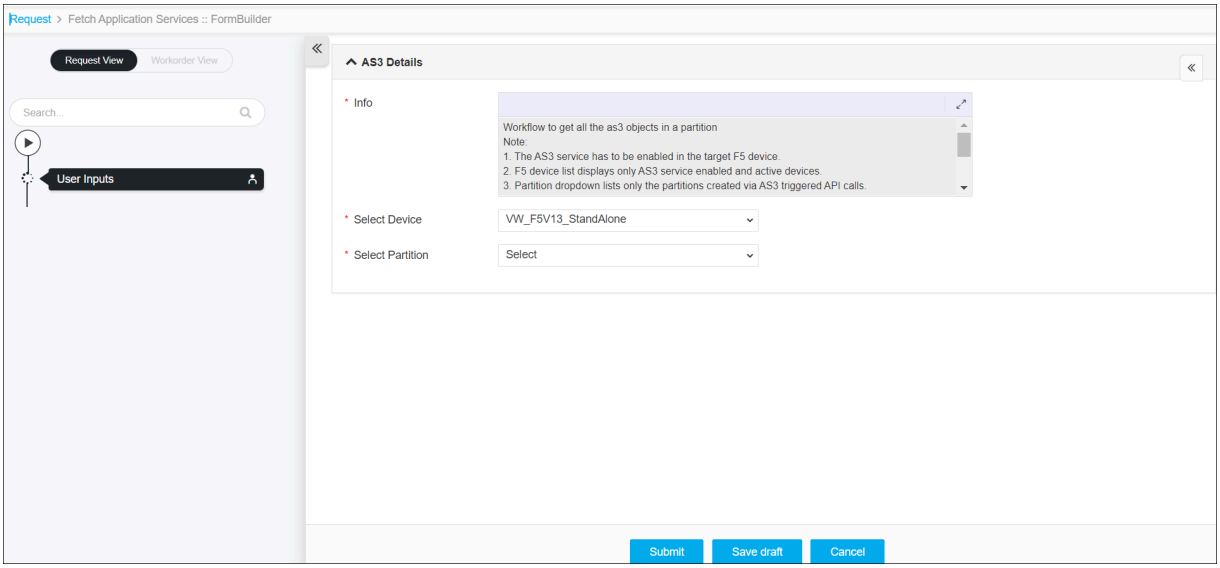
1. Go to **Menu** > **Request** > **View/Run**.
   The Workflow Catalog page appears.
2. In the Workflow Catalog page, hover over the **Fetch Application Services** workflow.
   The Run and Schedule buttons are shown.

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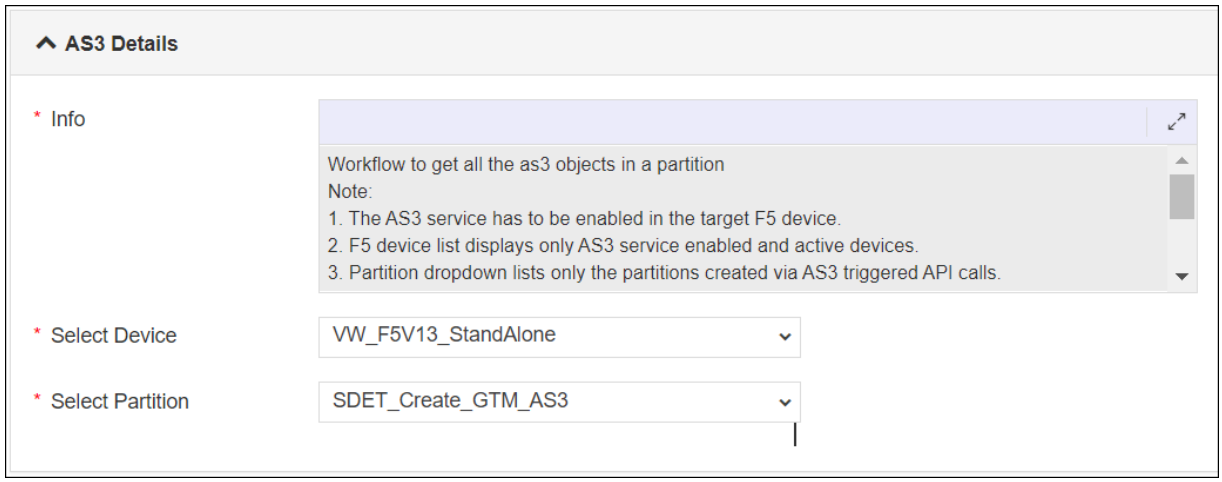
3. Click the Run  button.

   The Form Input page opens:



4. Select the Device Name and associated partition to fetch the AS3 objects.

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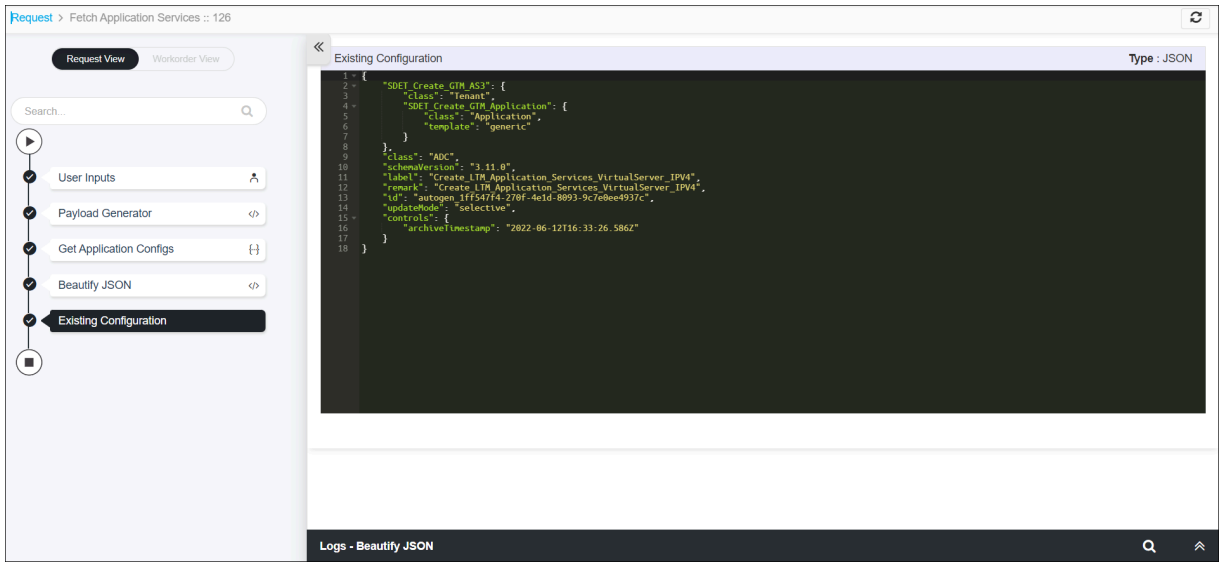


5. Click the **Submit** button.

   The validation starts automatically stage.

> **Note:**
>
> - If you want to save this form to edit it later, click the **Save Draft** button, and then click **Ok** in the Confirmation popup window. The form will be saved as Open request under **Request** > **My Request**.
> - If you want to cancel this form, click the **Cancel** button.

6. The workflow is created and AS3 objects are fetched in the JSON format.



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Note: The stages of the request are shown in the left side of the screen. To view a particular stage of the request, click the respective stage.

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Chapter 13: How to Design a Workflow

- Designing F5 BIG-IP Automation Workflow
- Designing Infoblox IPAM Automation Workflow
- Designing BlueCat IPAM Automation Workflow

Designing F5 BIG-IP Automation Workflow

This section covers the following procedures:

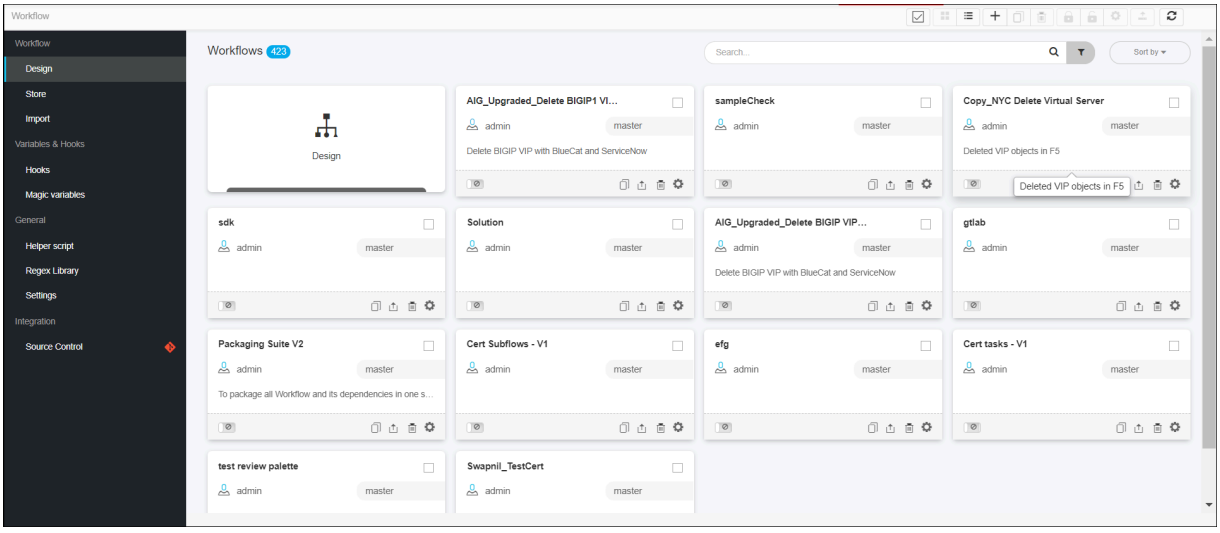
- Sample workflow creation with pool, pool members, and monitor
- Customize the variables for a task
- Sample Workflow Creation with A, CNAME, and PTR Records in BlueCat

Sample Workflow Creation with A, CNAME, and PTR Records in BlueCat

This section covers the sample procedures for creating a sample workflow with A, CNAME, and PTR Records in BlueCat.

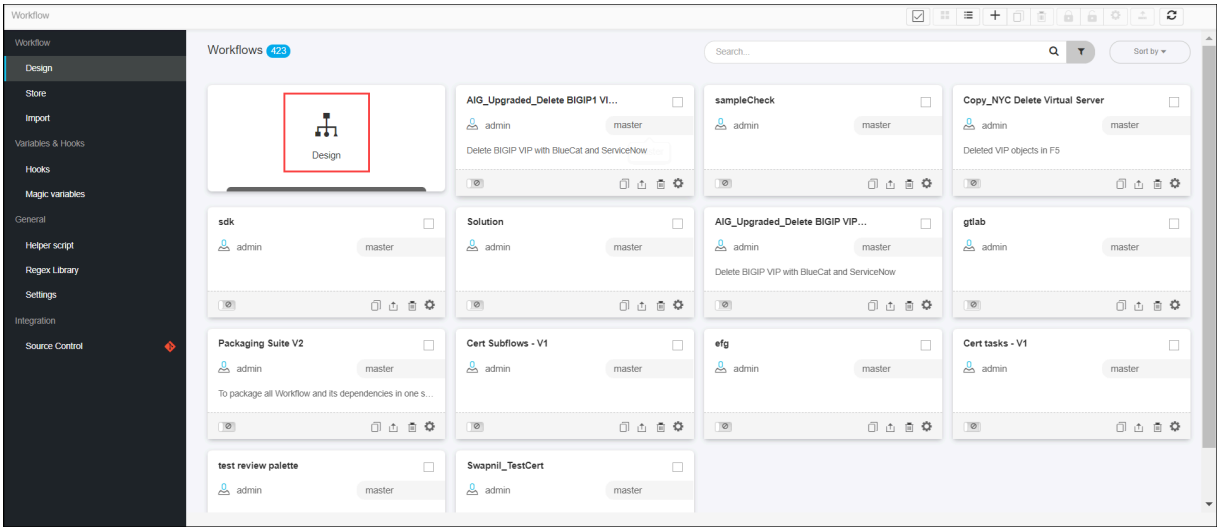
To create a sample workflow with A, CNAME, and PTR records,

1. Go to ☰ **Menu** > **Studio** > **Workflow**.
   The Workflows page appears:

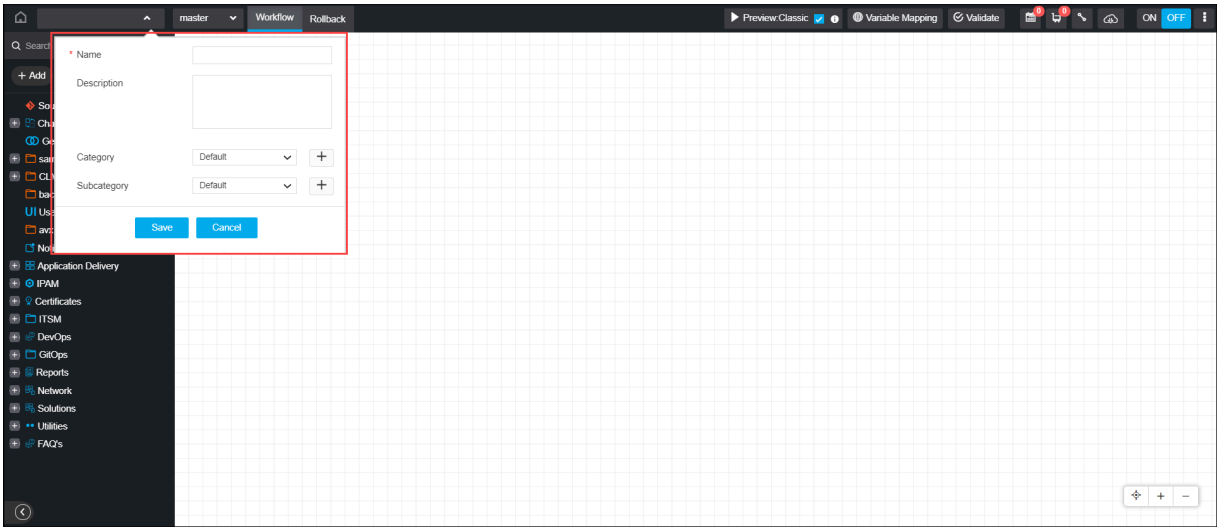


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2. Click **Design** to create a new workflow.



3. Enter or select the field information.



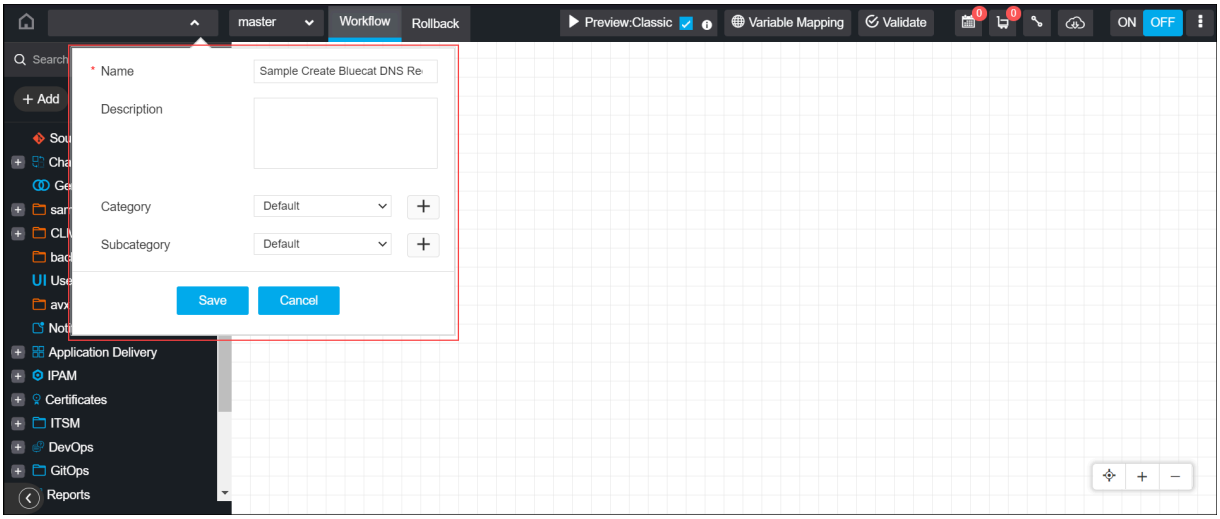
4. The following table provides the field description for designing a workflow:

Field	Description
*Name	Name of the workflow.
Description	Description for the workflow.
Category	Select the category from the drop-down option.
Subcategory	Select sub-category for the workflows from the drop-down option. The possible options are:

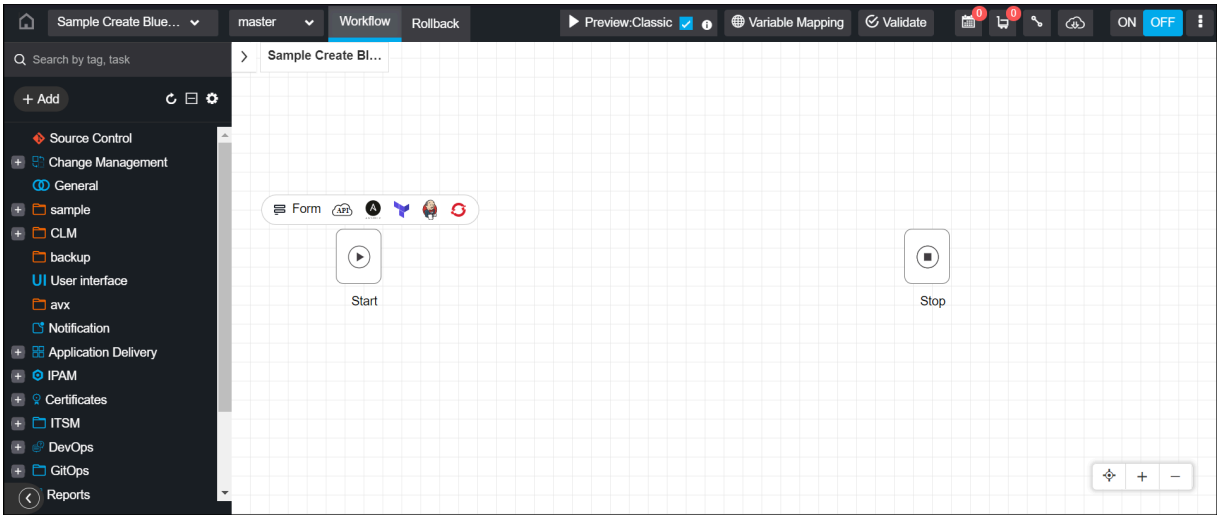
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Field	Description
	• Modify • Create • Default • Delete

5. Click the **Save** button.

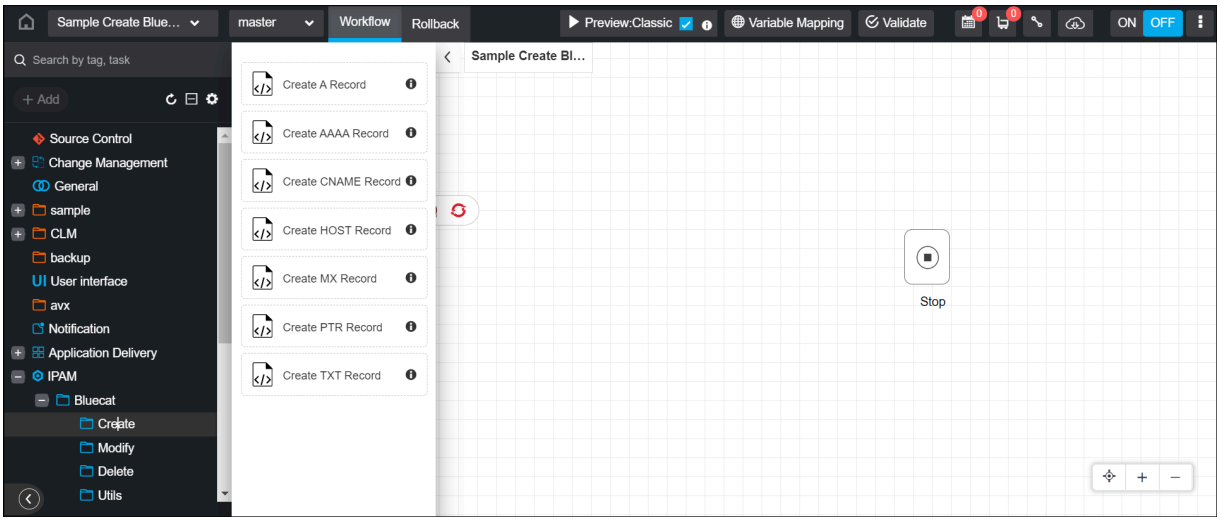


The workflow is created:

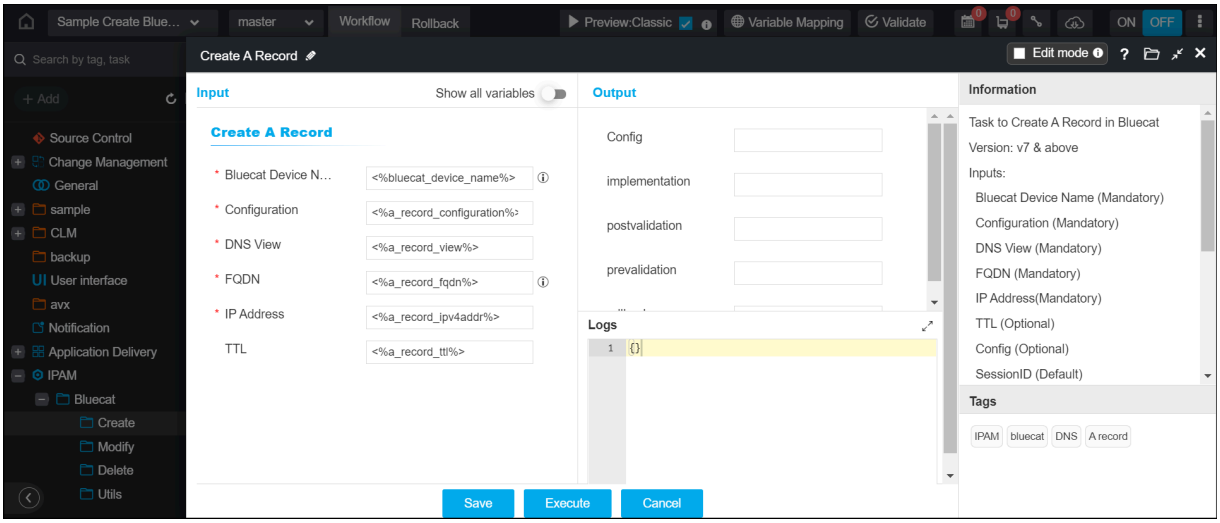


6. Go to **IPAM** > **Bluecat** > **Create** folder.
7. Place **Create A Record** task.

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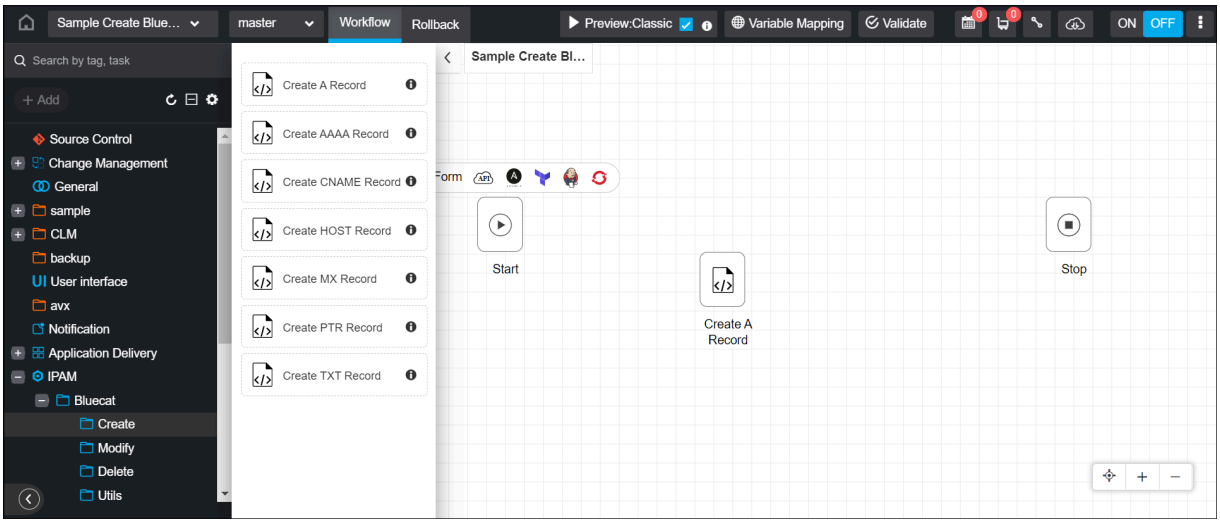
The Input, Output, and Information data for **Create A Record** task are displayed:



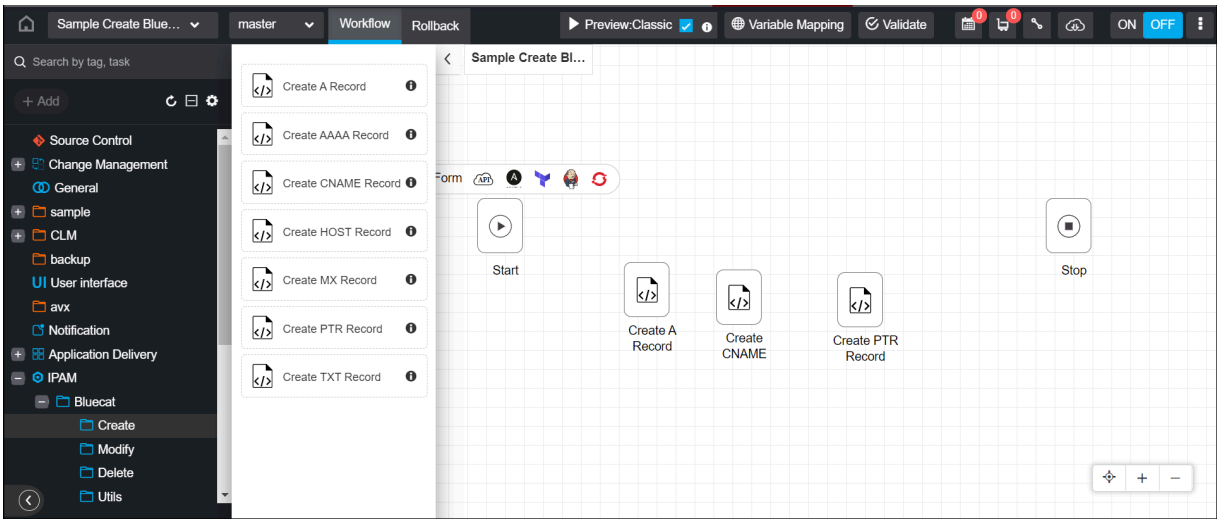
8. Click the **Save** button.

   The **Create A Record** task has been added to the workflow:

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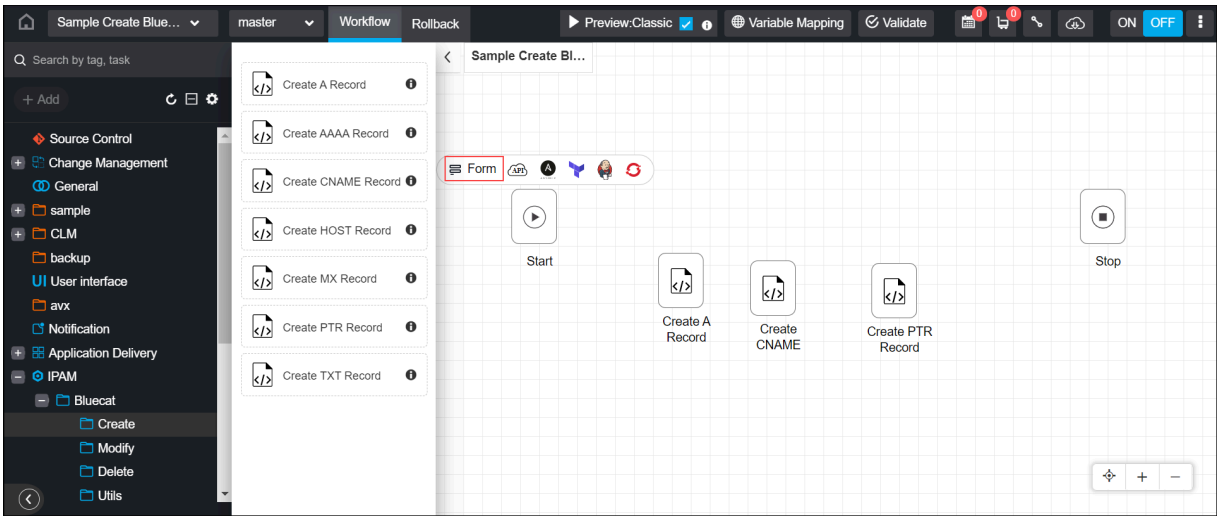


9. Similarly, place **Create CNAME Record** task and **Create PTR Record** task from the folder **IPAM** > **Bluecat** > **Create**.

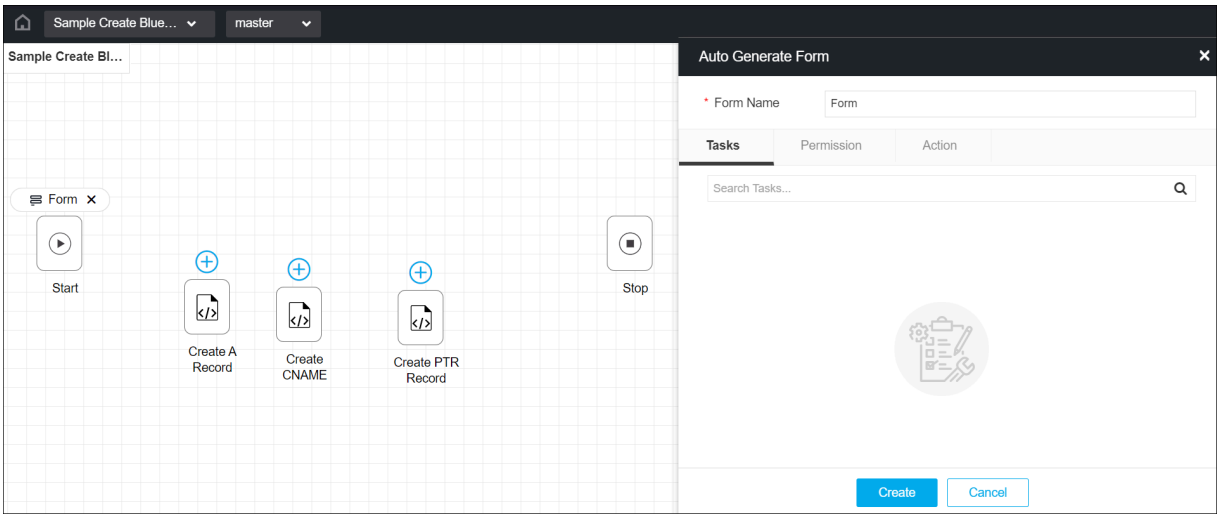


10. Click the **Form** in the Design page to auto-generate the form for the selected tasks.

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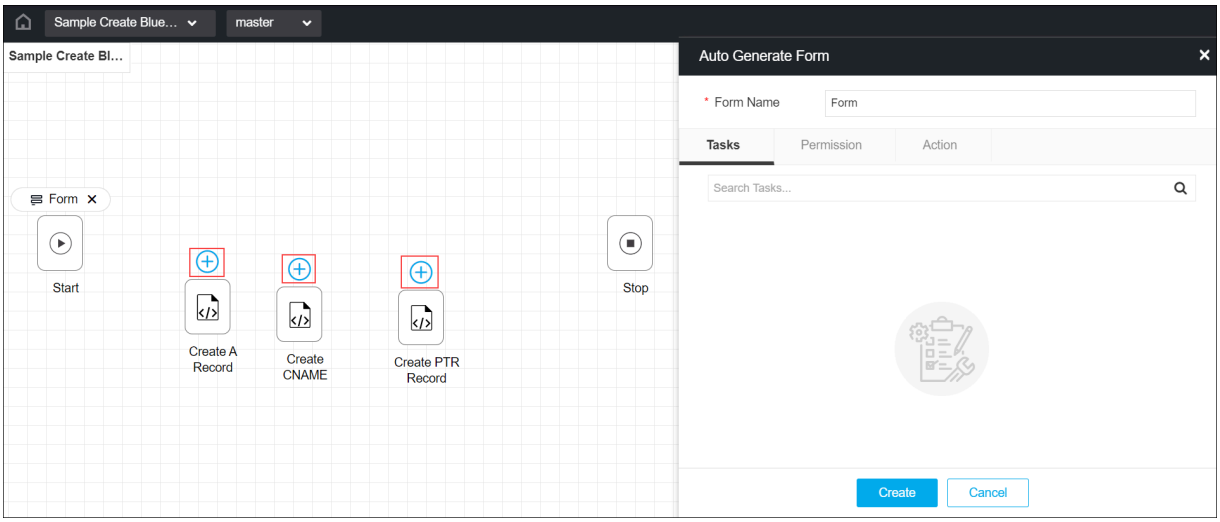


The **Auto Generated** Form appears:

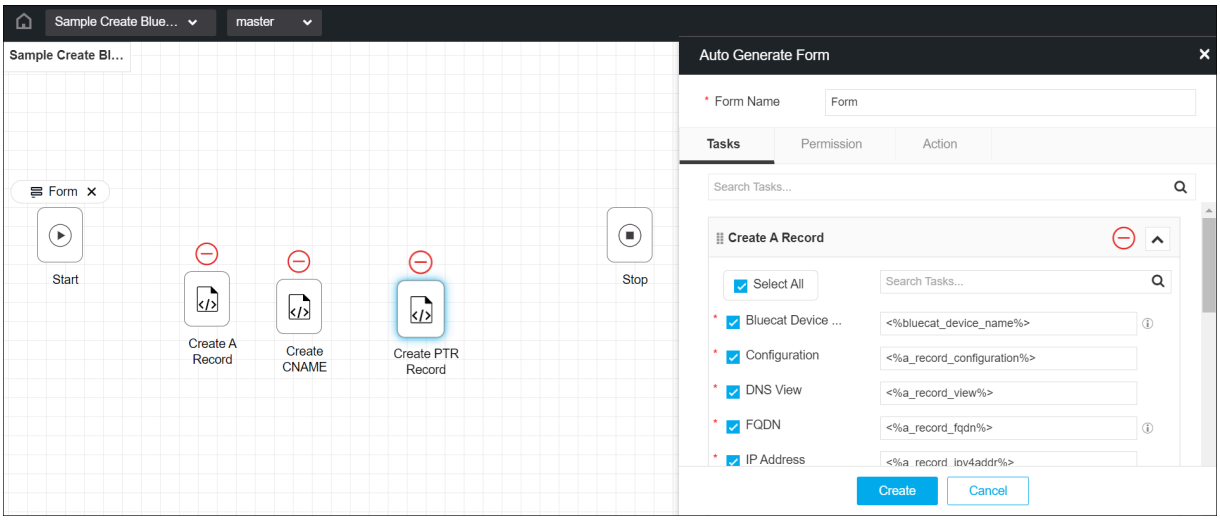


11. Click the add ( ) button of the **Create A Record** task, **Create CNAME Record** task, and **Create PTR Record** task.

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The tasks are added to the Auto Generate Form:

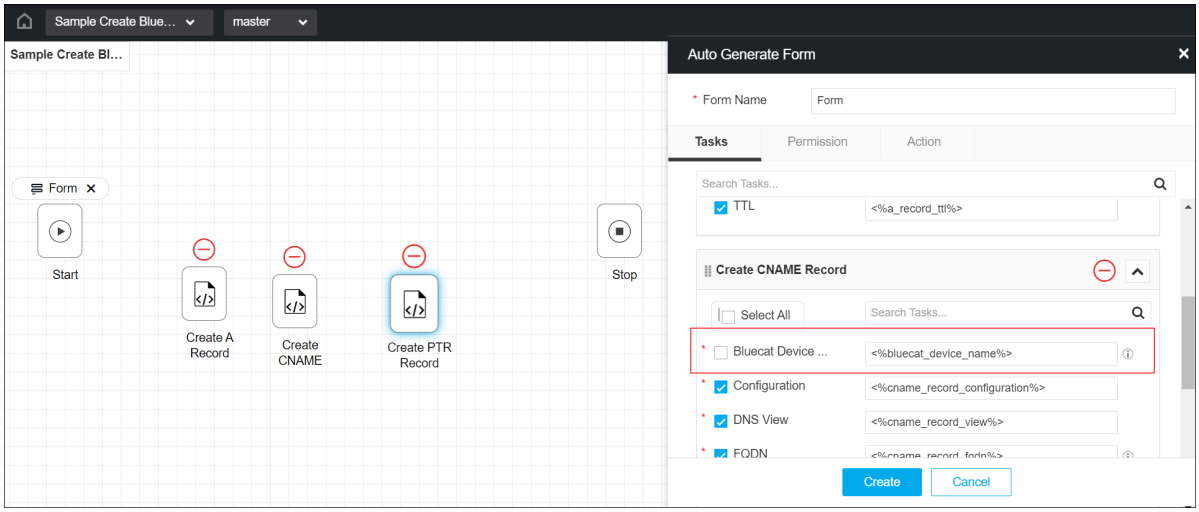


Note: The sequence of the tasks is maintained based on the add button clicked sequence on the tasks. If you want to alter the sequence after adding the tasks to the Auto Generate Form, delete the task(s) from the Auto Generate Form and add again.

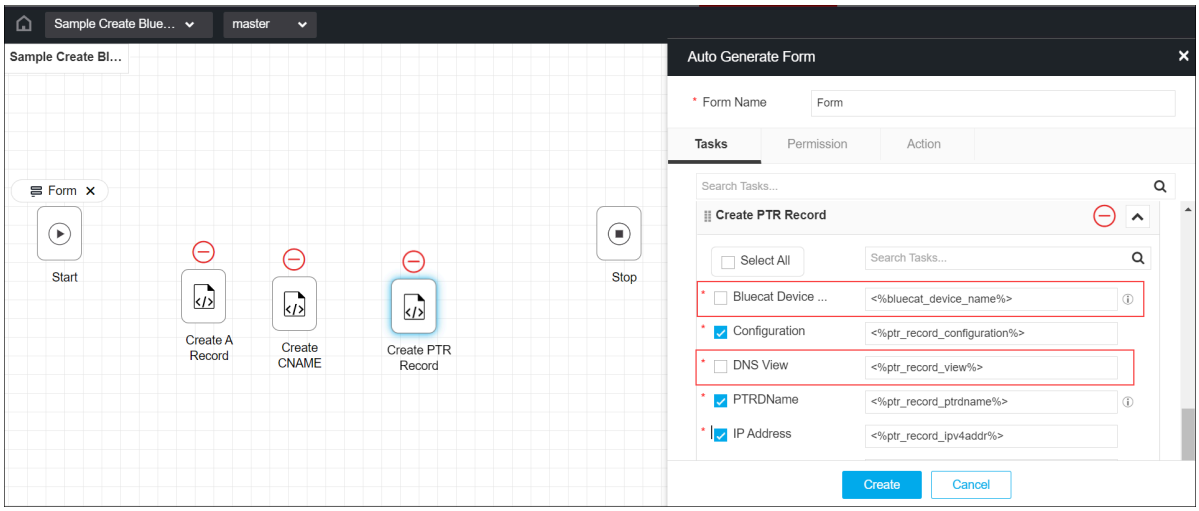
12. Verify all the fields and select/clear the checkbox of the fields to add them to the form.
13. The following fields are not to be selected to avoid duplication being shown in the form.

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- Unselect the Bluecat Device Name field from the Create CNAME Record task.

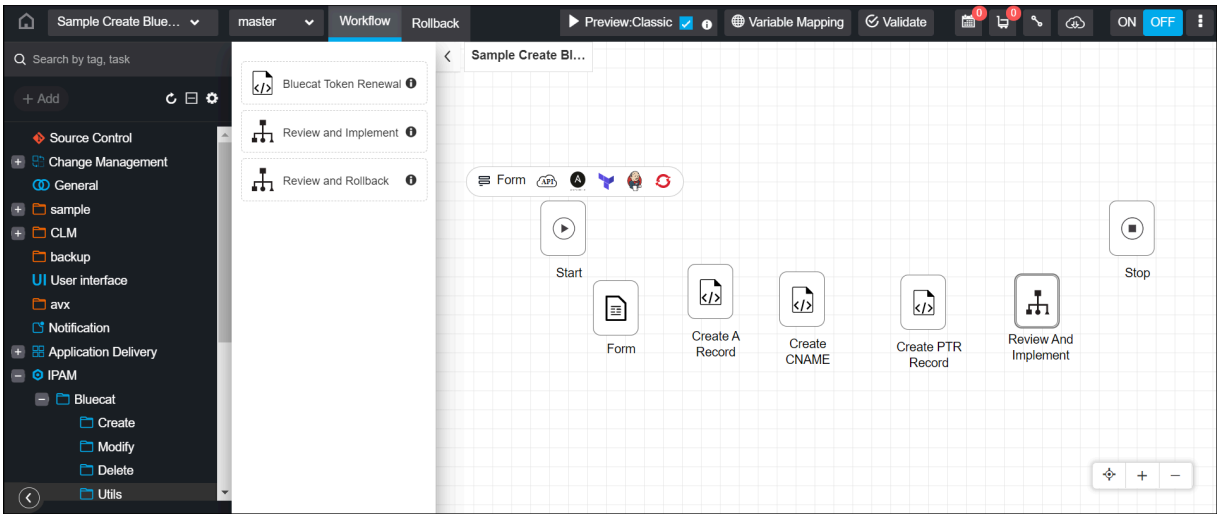


- Unselect the **Bluecat Device Name** field and **DNS View** from the **Create PTR Record** task.

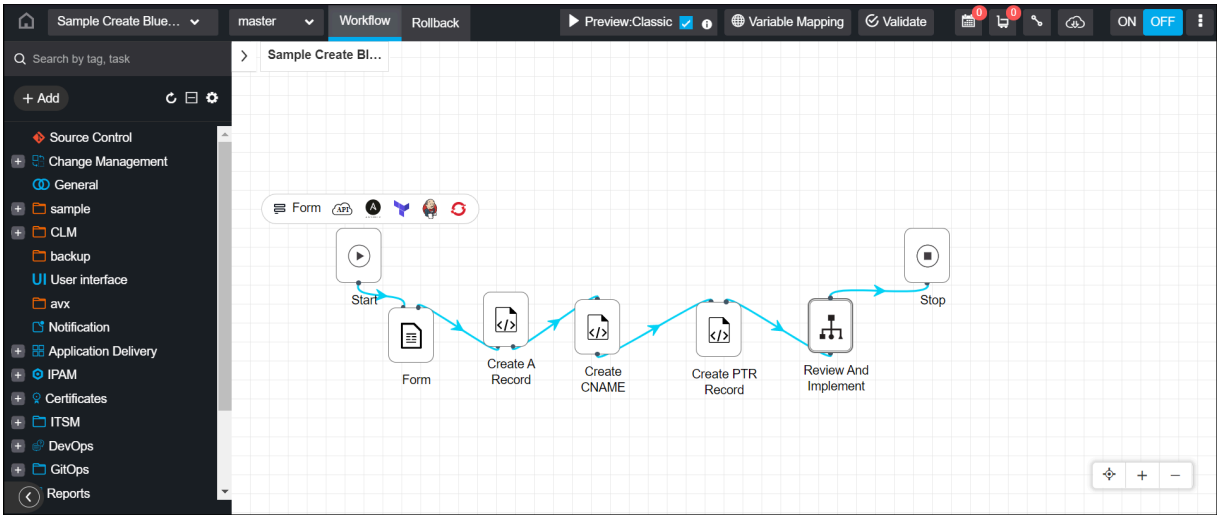


14. Click the **Create** button.
15. Go to **IPAM** > **Bluecat** > **Utils** folder, and then place **Review and Implement** subflow from the folder.

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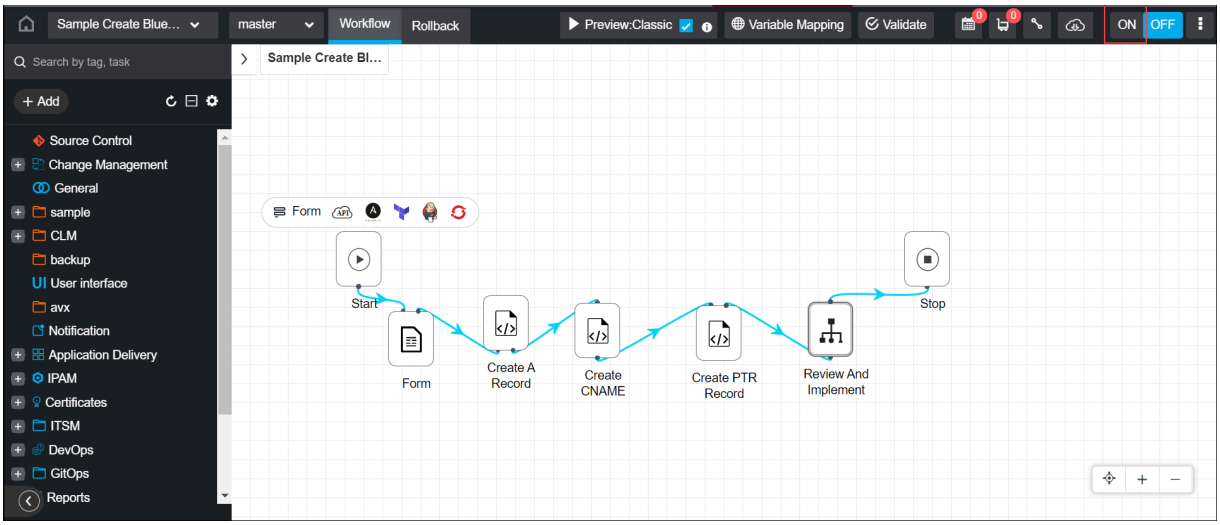


16. Connect all the tasks.

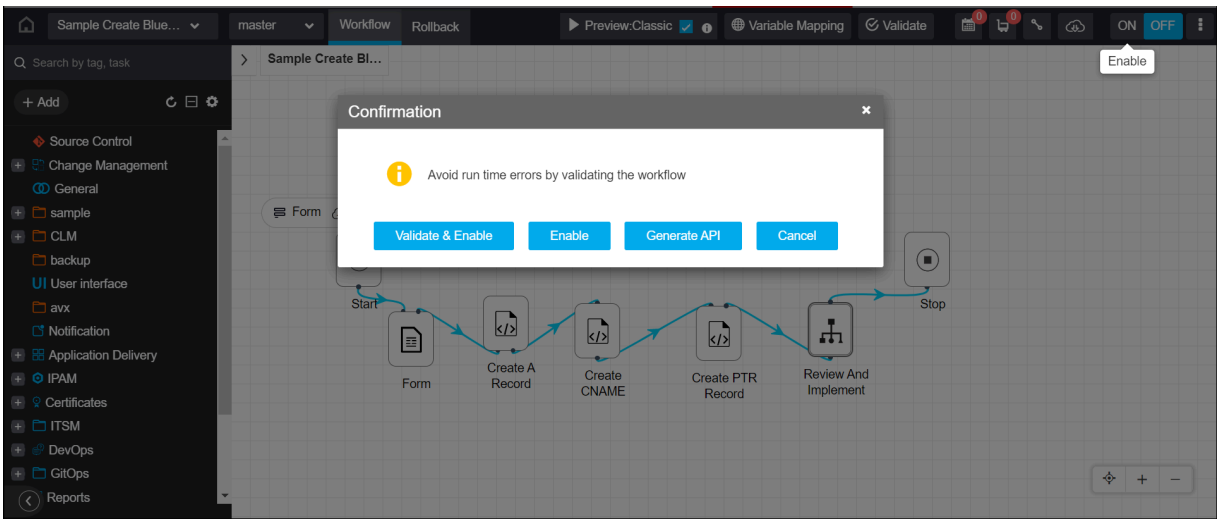


17. Enable the workflow by clicking the **ON** toggle button.

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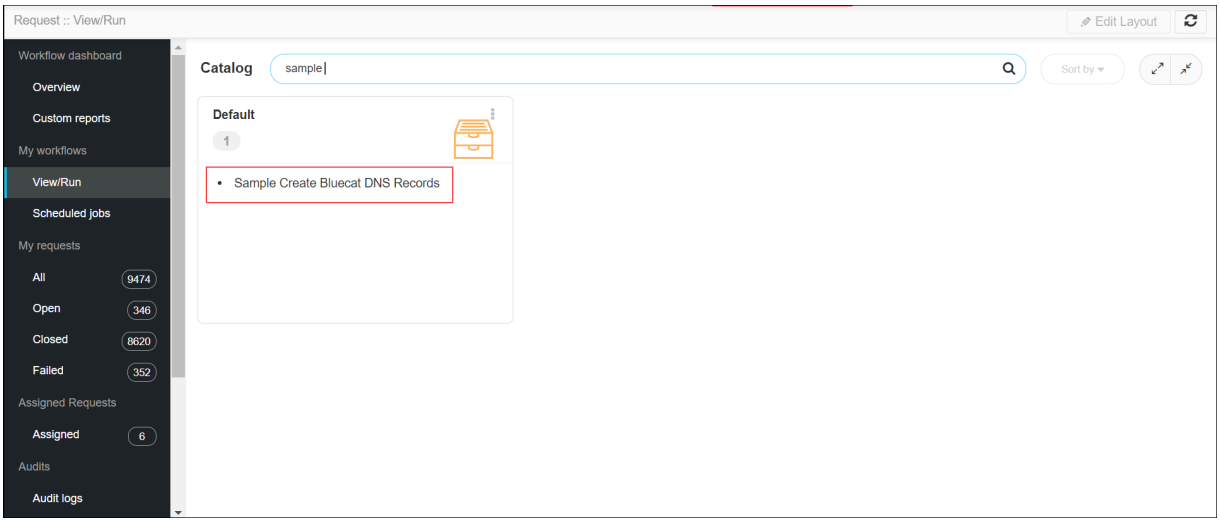


18. Click the **Validate & Enable** button.



The workflow is added to the Workflow Catalog page.

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19. Run and verify the workflow.

- Customize the Variables for a task

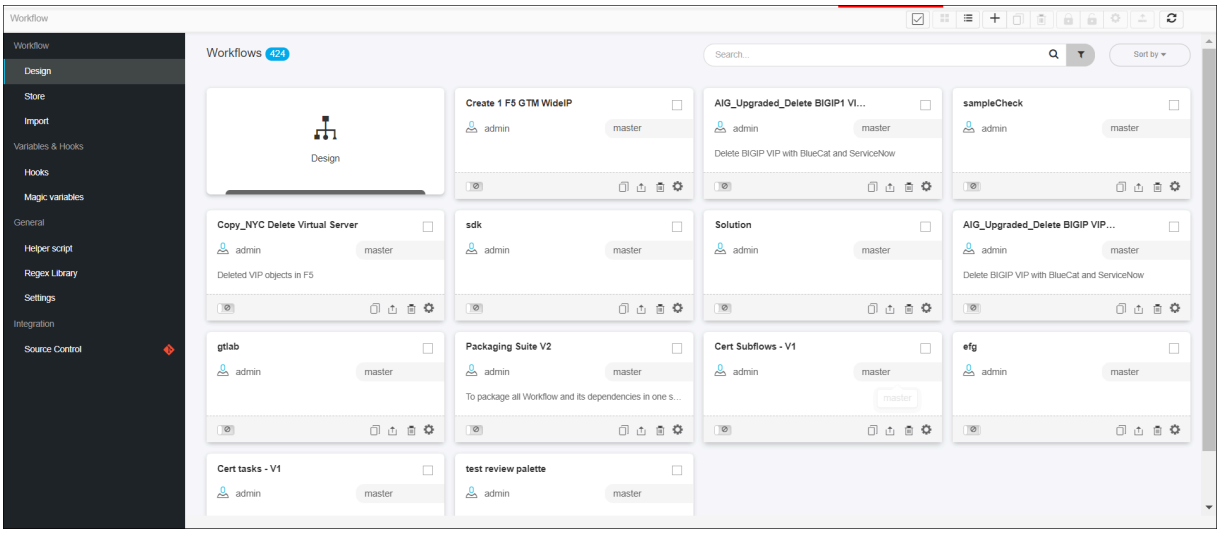
Customize the Variables for a task

The variables can be customized for a task after creating a workflow also.

To customize the variables for a task,

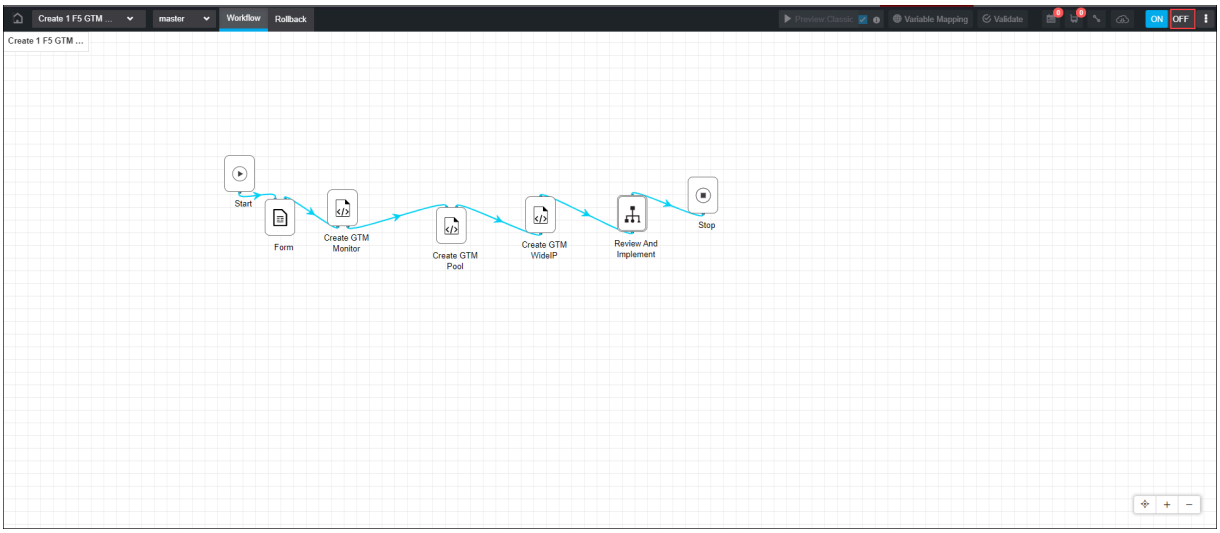
1. Go to ☰ **Menu** > **Studio** > **Workflow**.

   The Workflows page appears:



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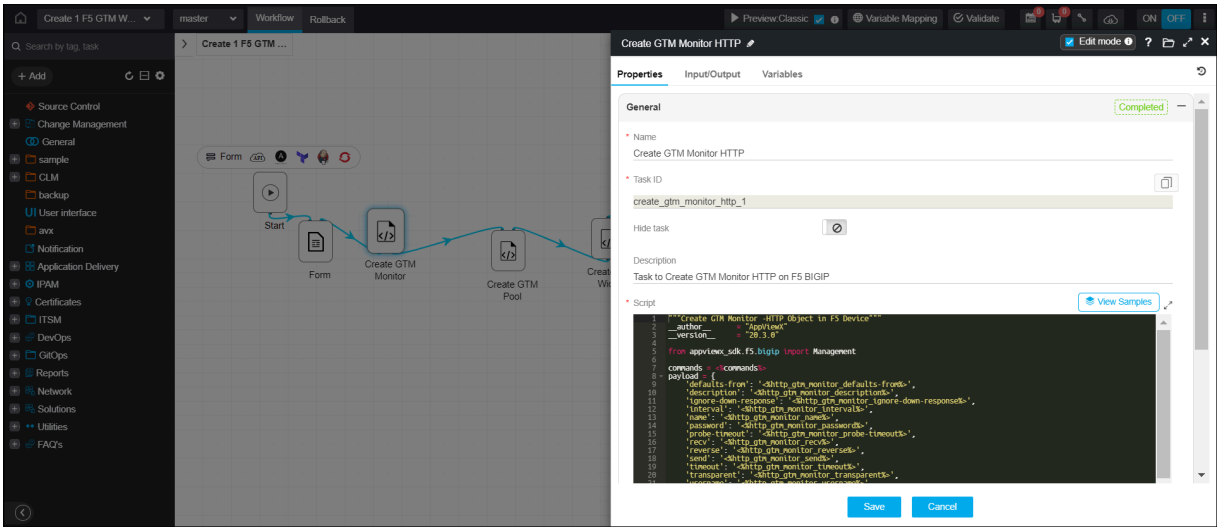
2. Click the workflow for which the variables are to be customized.
3. Disable the workflow by clicking the **OFF** toggle button.



The Confirmation popup appears.

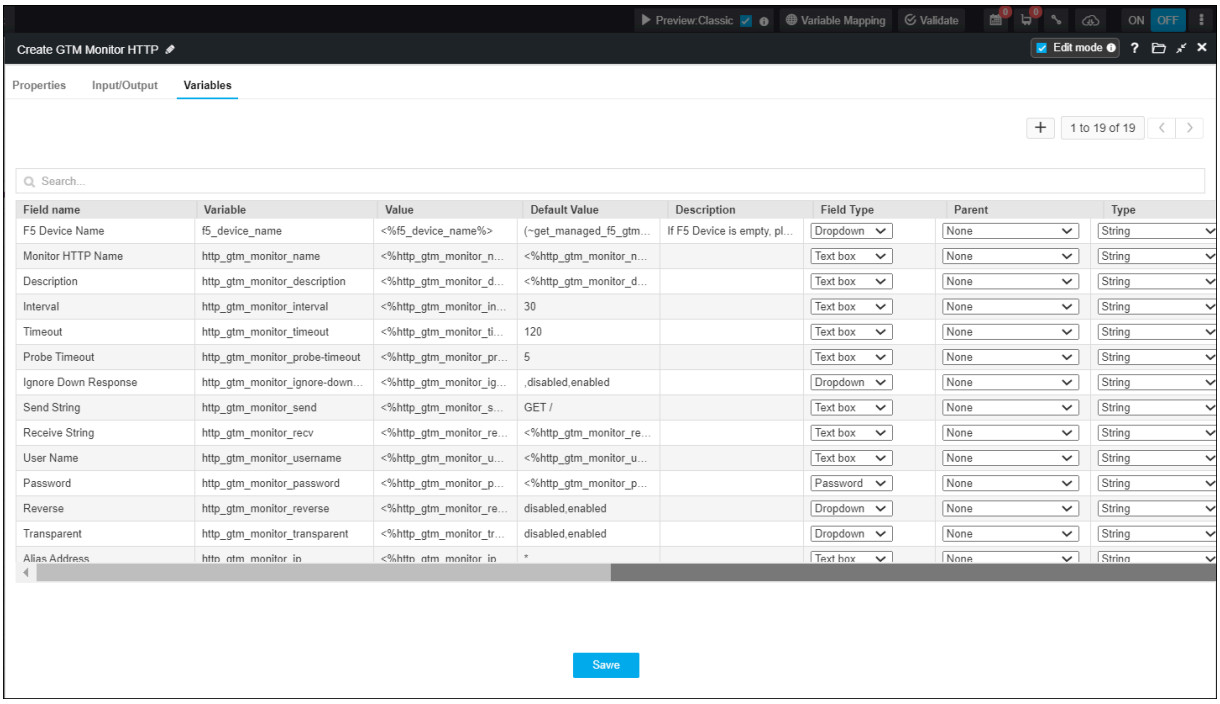
4. Click **Yes** to confirm the disabling workflow.
5. Click twice on the desired task.

The workflow Properties page appears:



6. Click the **Variables** tab.

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7. You can update any of the following details for the variables:
   - **Field Type** - select the field type from the drop-down option. For example, Description, Password, Dropdown, etc.
   - **Parent** - select the parent field from the drop-down option.
   - **Type** - select the type from the drop-down option. For example, String, JSON, Email, etc.
   - **Show variables** - enable or disable the variable by clicking the toggle button.
   - **Mandatory** - mark whether the field is mandatory or not by clicking the toggle button.
8. Click the **Save** button, and then close the window.

   The updated variables are displayed in the form.

Designing Infoblox IPAM Automation Workflow

This section covers the following procedures:

- Sample workflow creation with A, CNAME, and PTR Records in Infoblox
- Customize the variables for a task

- Sample Workflow Creation with A, CNAME, and PTR Records in Infoblox
- Customize the Variables for a Task

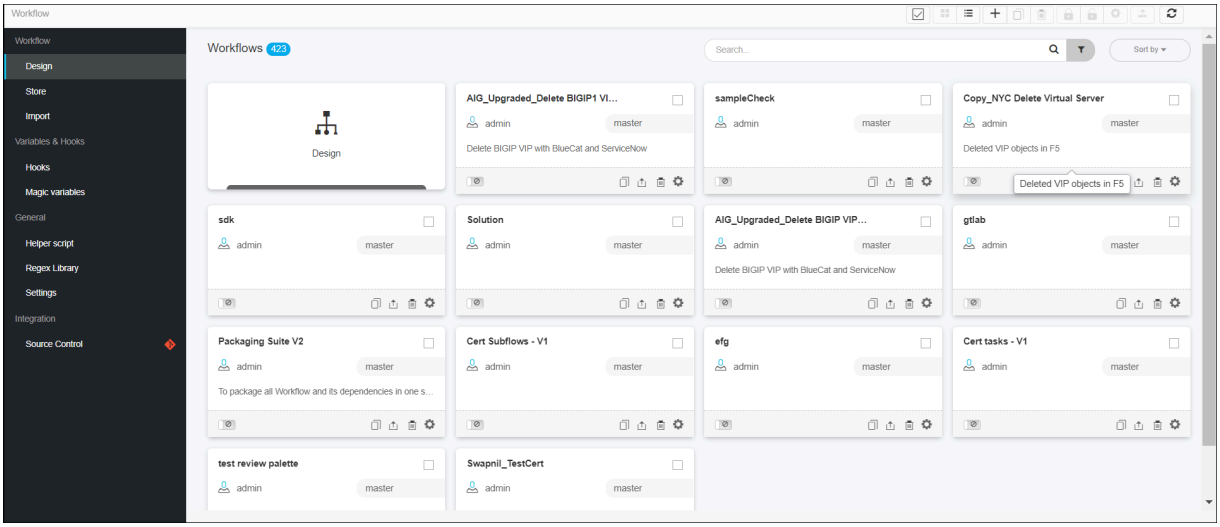
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Sample Workflow Creation with A, CNAME, and PTR Records in Infoblox

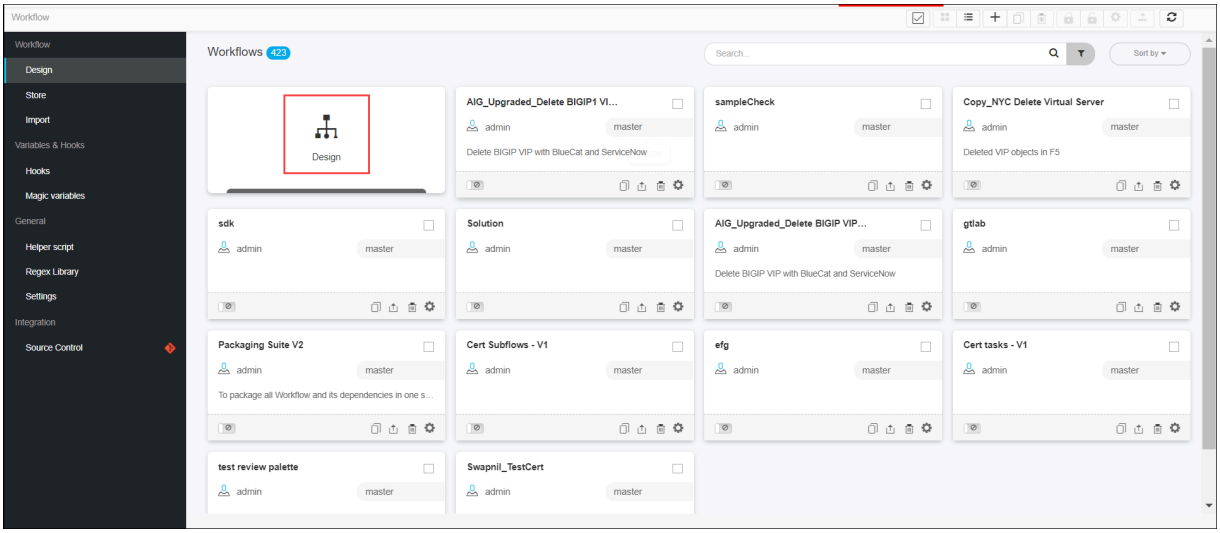
To create a sample workflow with A, CNAME, and PTR Records,

1. Go to **Menu** > **Studio** > **Workflow**.

   The Workflows page appears:

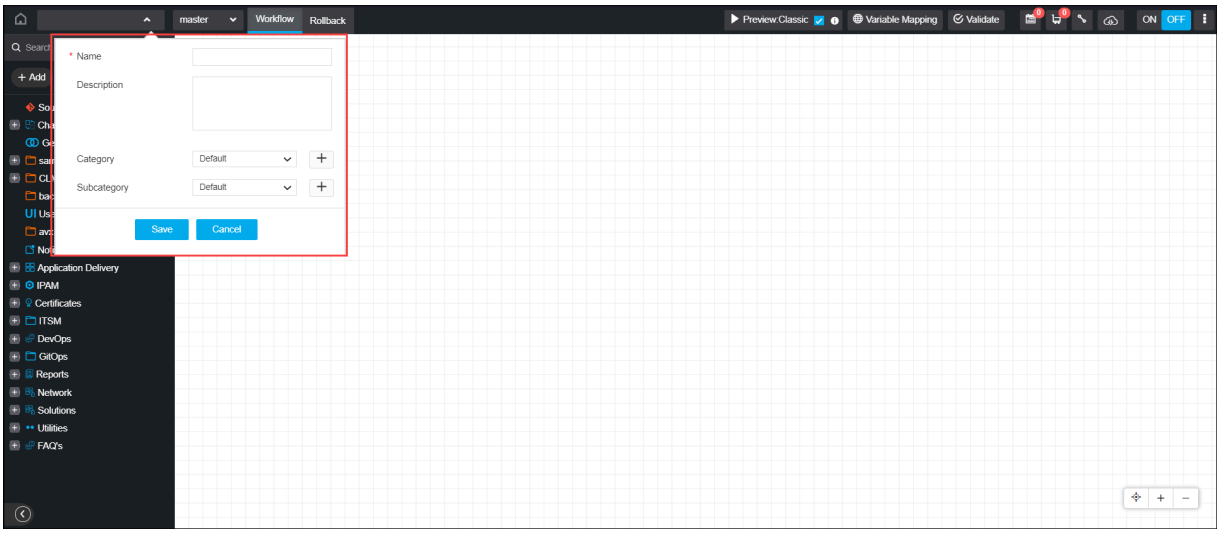


2. Click Design to create a new workflow.



3. Enter or select the field information.

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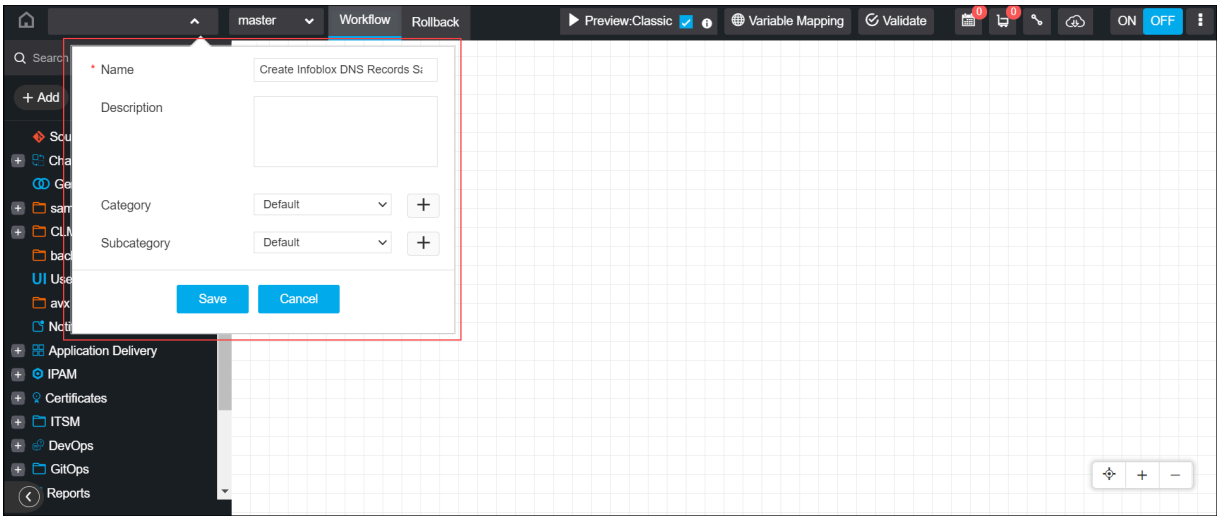


4. The following table provides the field description for designing a workflow:

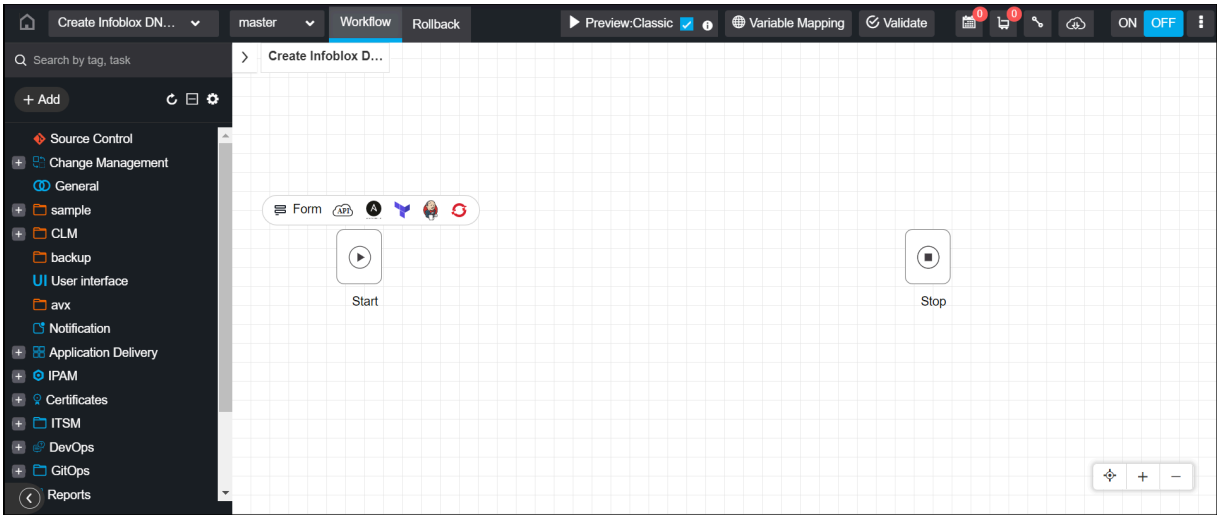
Field	Description
*Name	Name of the workflow.
Description	Description for the workflow.
Category	Select the category from the drop-down option.
Subcategory	Select sub-category for the workflows from the drop-down option. The possible options are: • Modify • Create • Default • Delete

5. Click the **Save** button.

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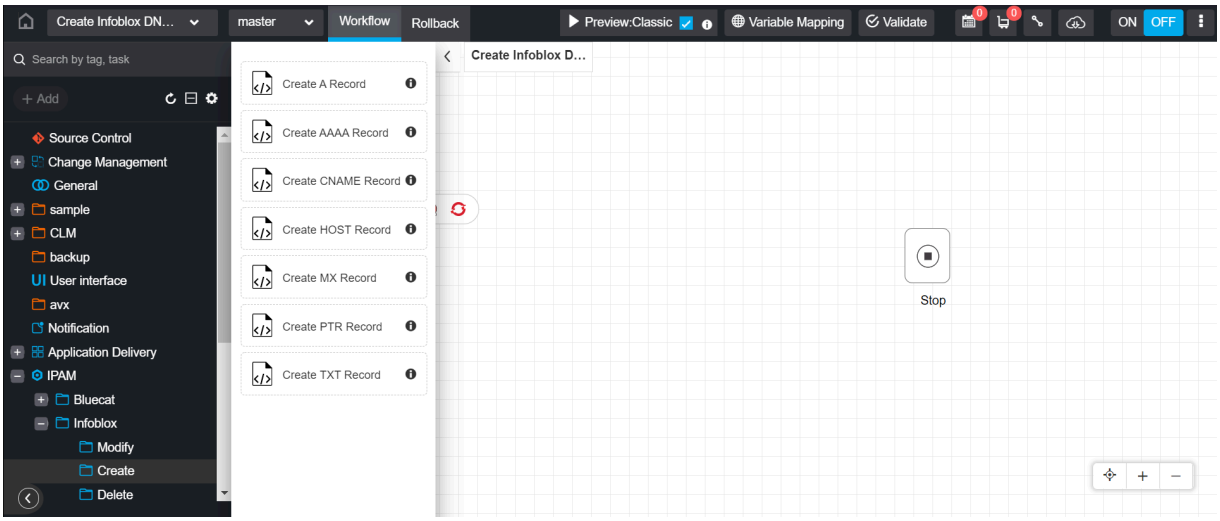


The workflow is created:

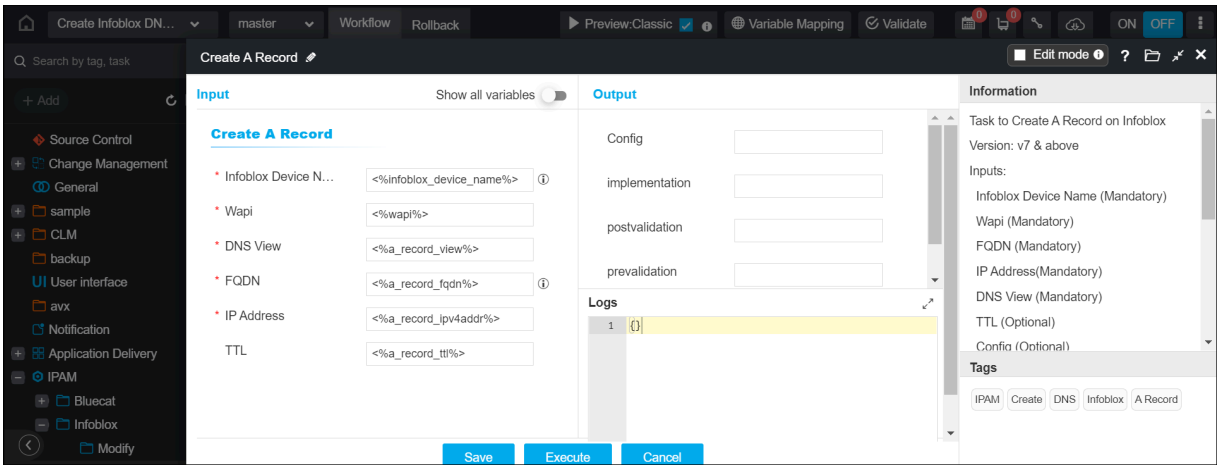


6. Go to **IPAM** > **Infoblox** > **Create** folder.
7. Place **Create A Record** task.

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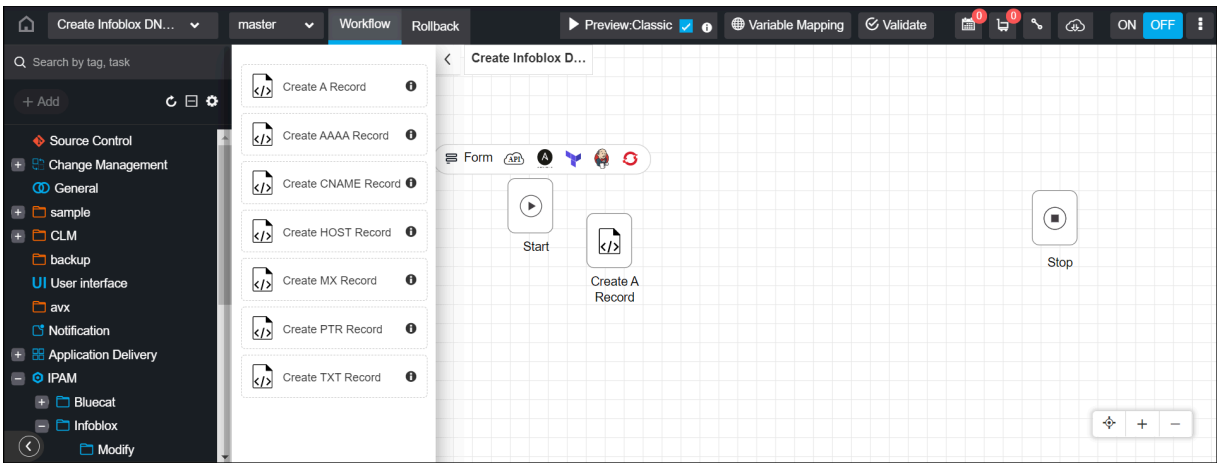


The Input, Output, and Information data for **Create A Record** task are displayed:



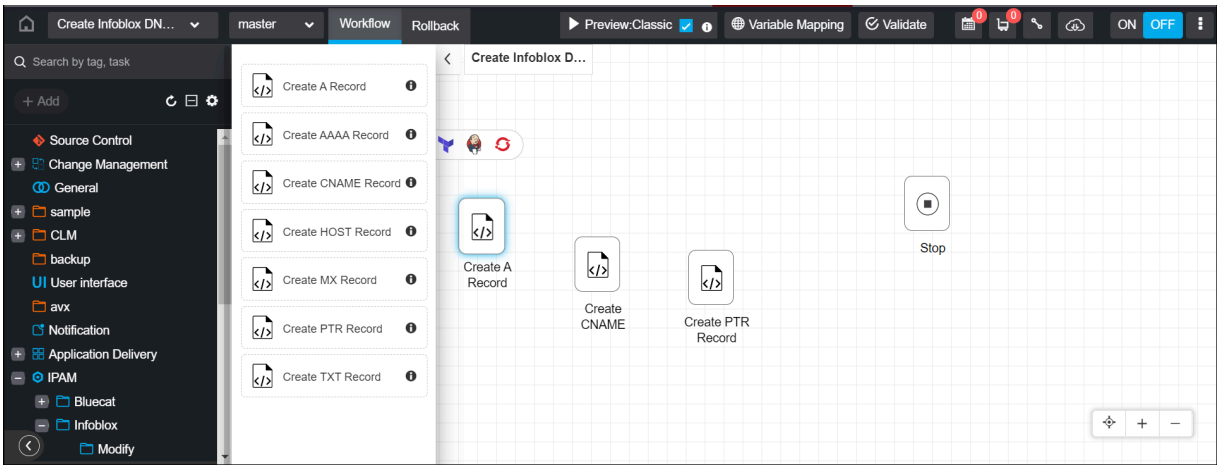
8. Click the **Save** button.

   The **Create A Record** task has been added to the workflow:

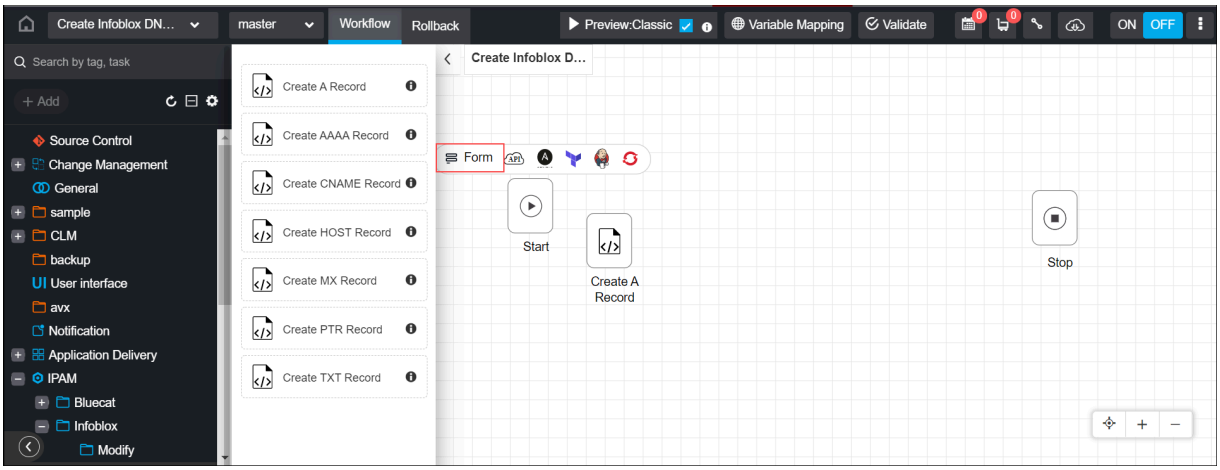


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9. Similarly, place **Create CNAME Record** task and **Create PTR Record** task from the folder **IPAM** > **Infoblox** > **Create**.

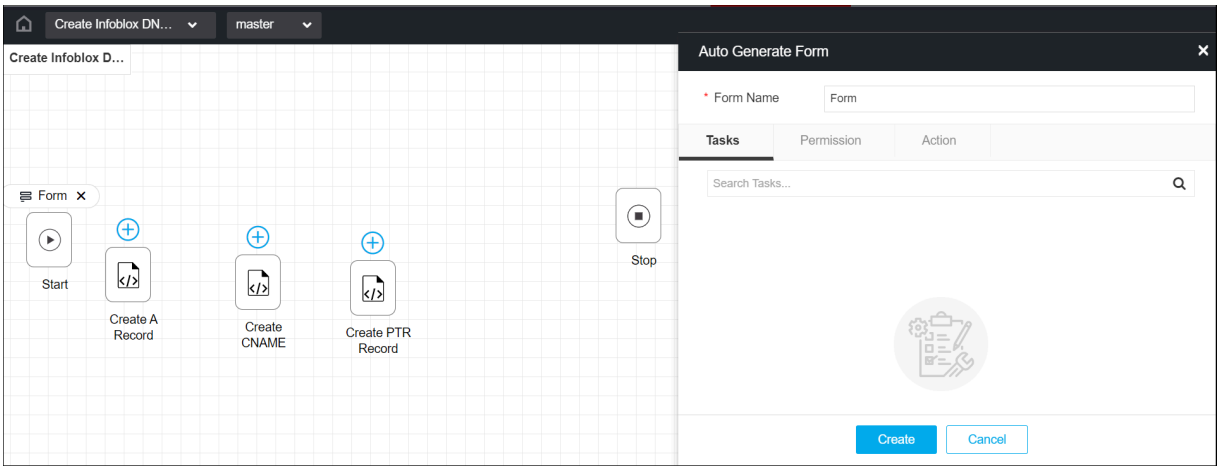


10. Click the **Form** in the Design page to auto-generate the form for the selected tasks.

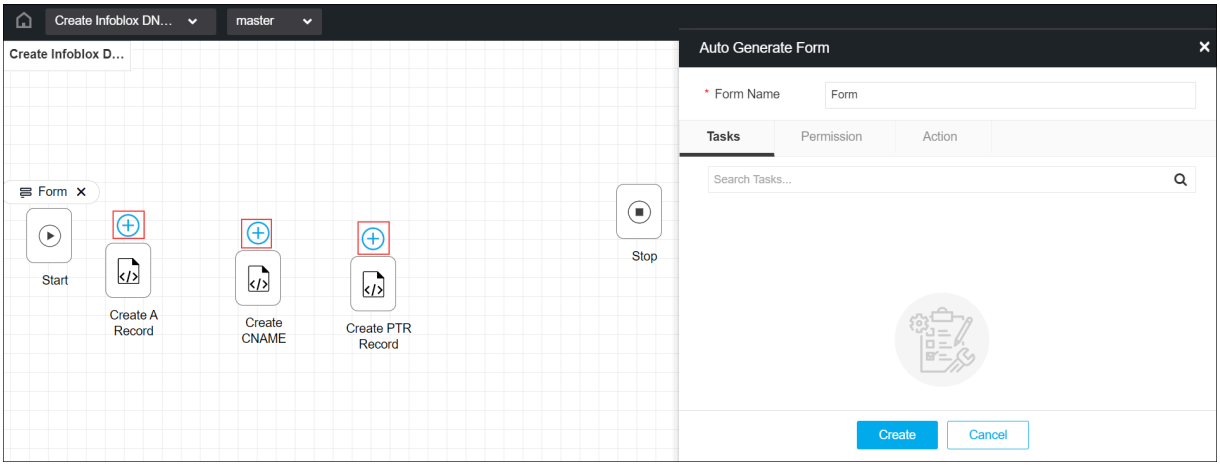


The Auto Generated Form appears:

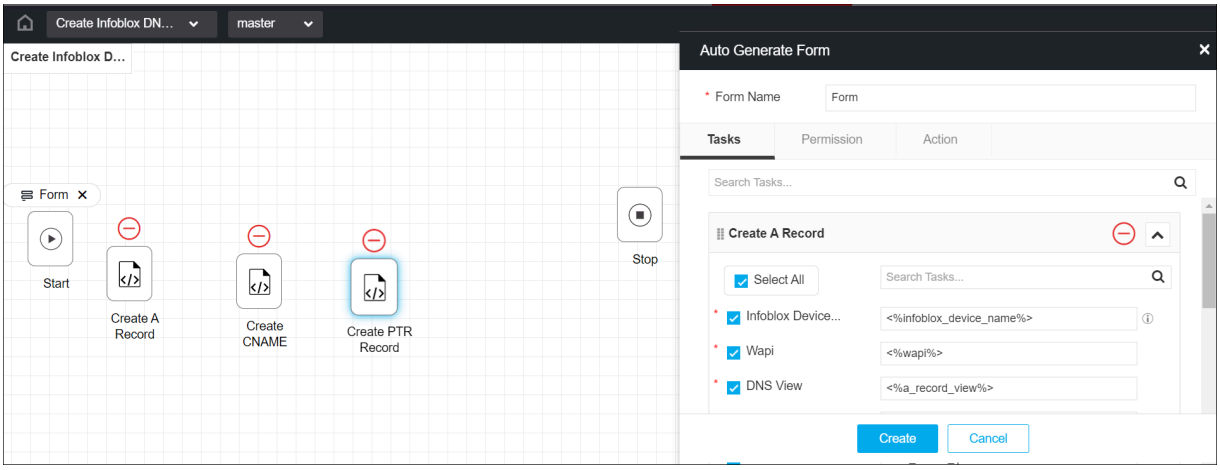
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11. Click the add ( ) button of the **Create A Record**, **Create CNAME Record**, and **Create PTR Record** tasks.



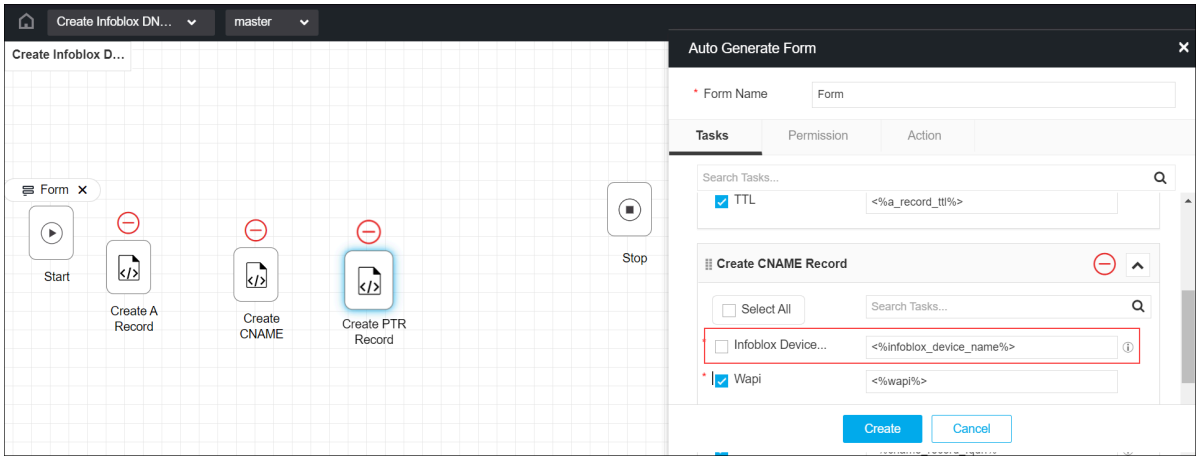
The tasks are added to the Auto Generate Form:



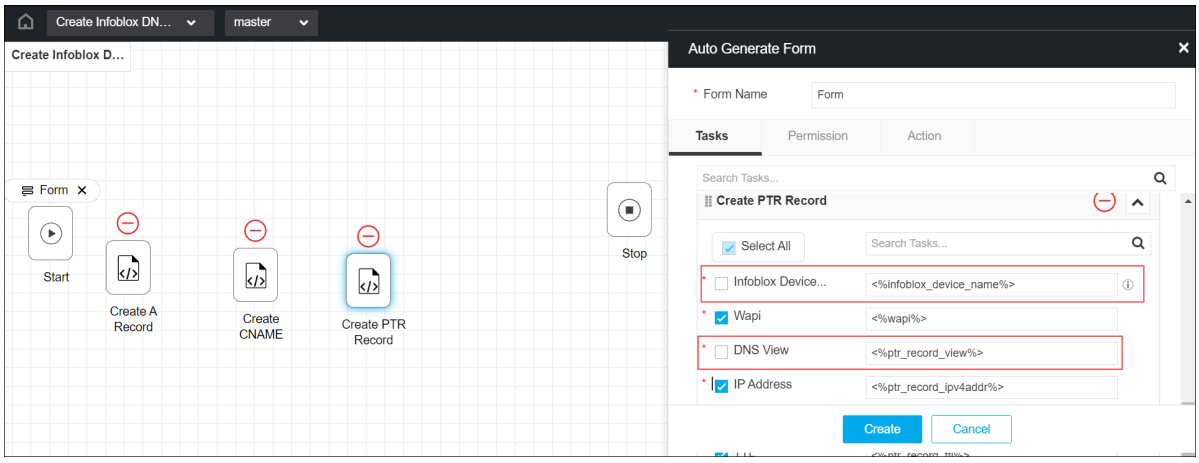
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Note: The sequence of the tasks is maintained based on the add button clicked sequence on the tasks. If you want to alter the sequence after adding the tasks to the Auto Generate Form, delete the task(s) from the Auto Generate Form and add them again.

12. Verify all the fields and select/clear the checkbox of the fields to add them to the form.
    The following fields are not to be selected to avoid duplication being shown in the form.
    - Clear the checkbox for the **Infoblox Device Name** field from the **Create CNAME Record** task and **Create PTR Record** task.



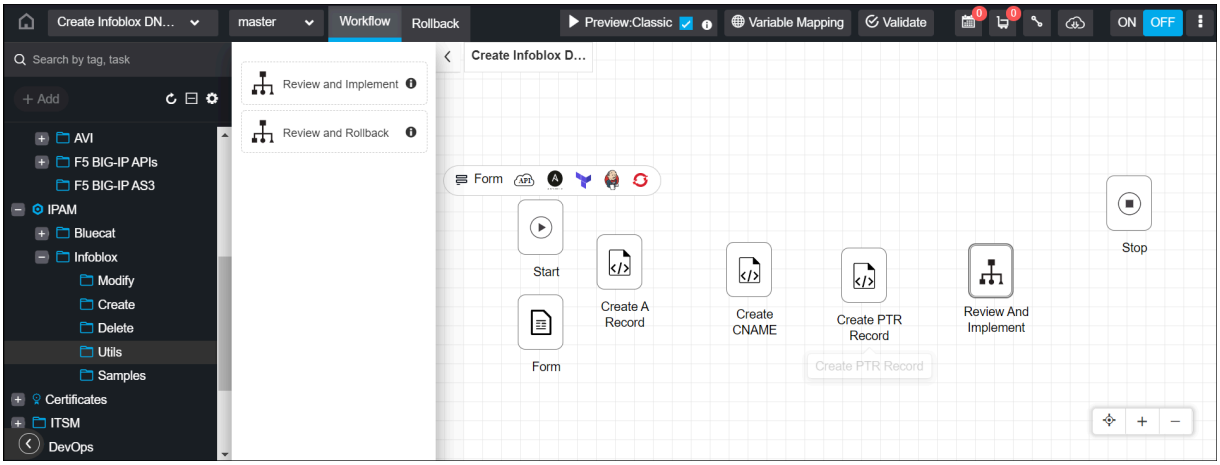
    - Clear the checkbox for the **Infoblox Device Name** field and **DNS View** from the **Create PTR Record** task.



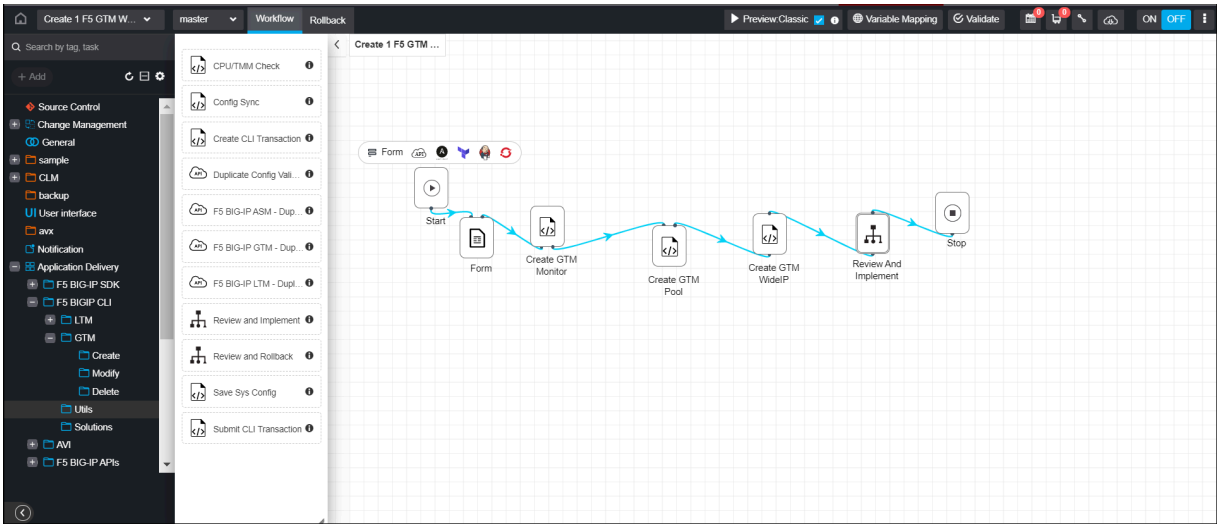
13. Click the **Create** button.

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14. Go to **IPAM** > **Infoblox** > **Utils** folder, and then place **Review and Implement** subflow from the folder.

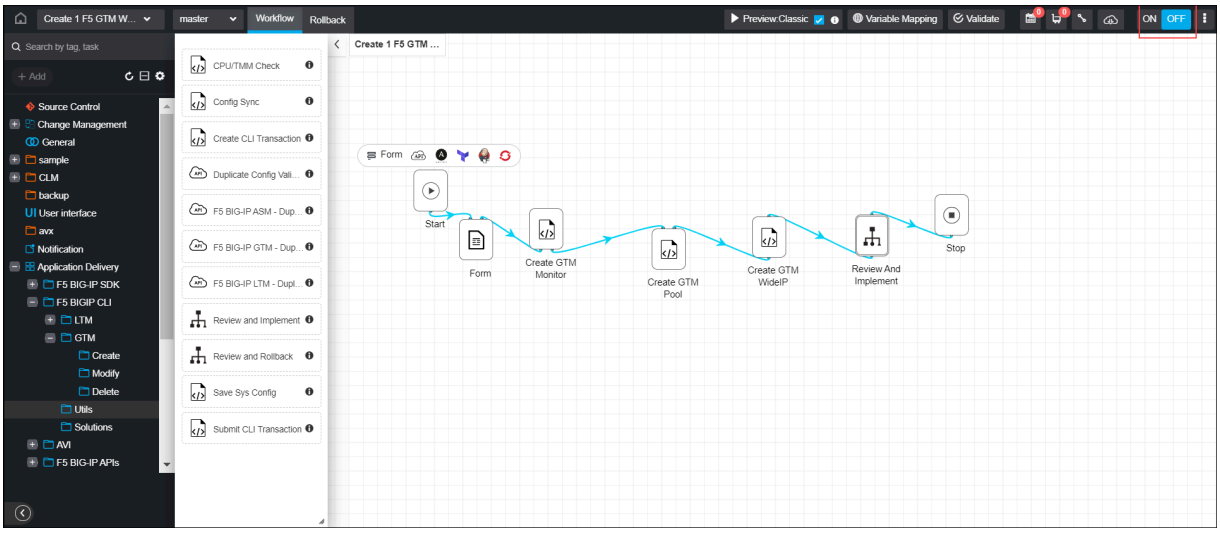


15. Connect all the tasks.

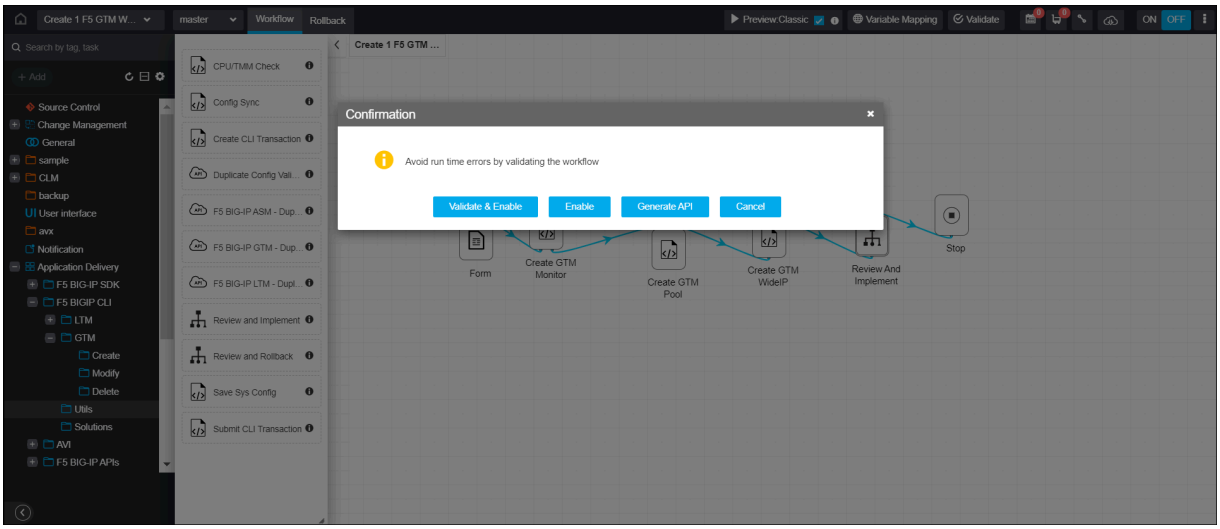


16. Enable the workflow by clicking the **ON** toggle button.

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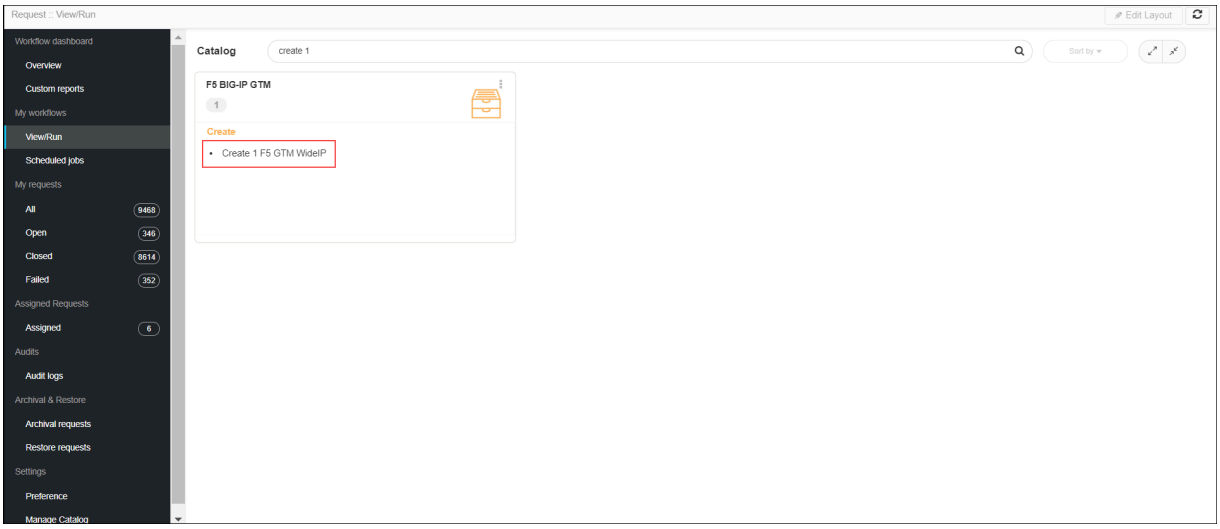


17. Click the **Validate & Enable** button.



The workflow is added to the Workflow Catalog page.

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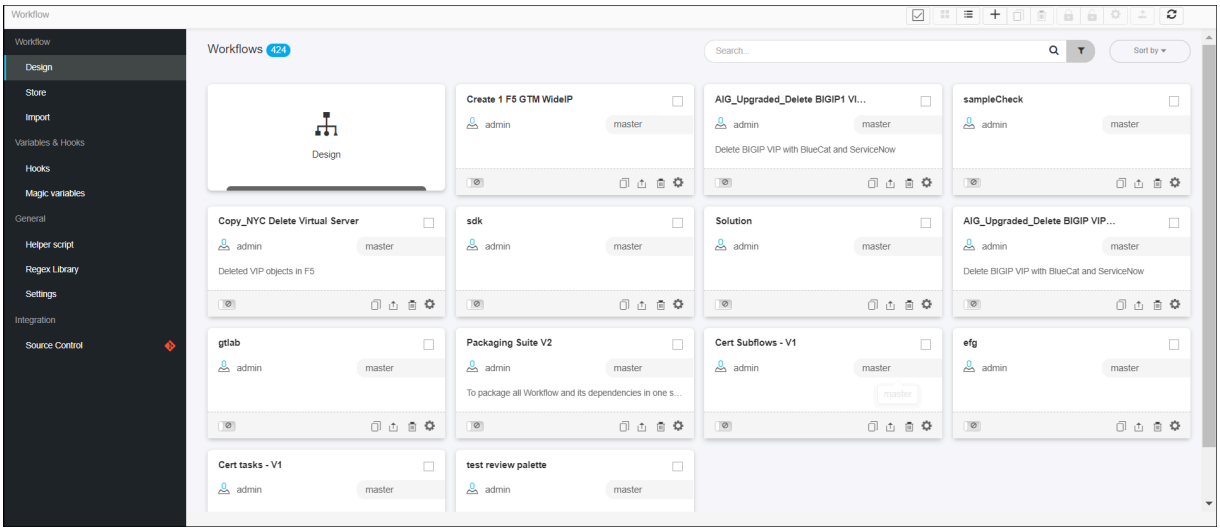
18. Run and verify the workflow.

Customize the Variables for a Task

The variables can be customized for a task after creating workflow also.

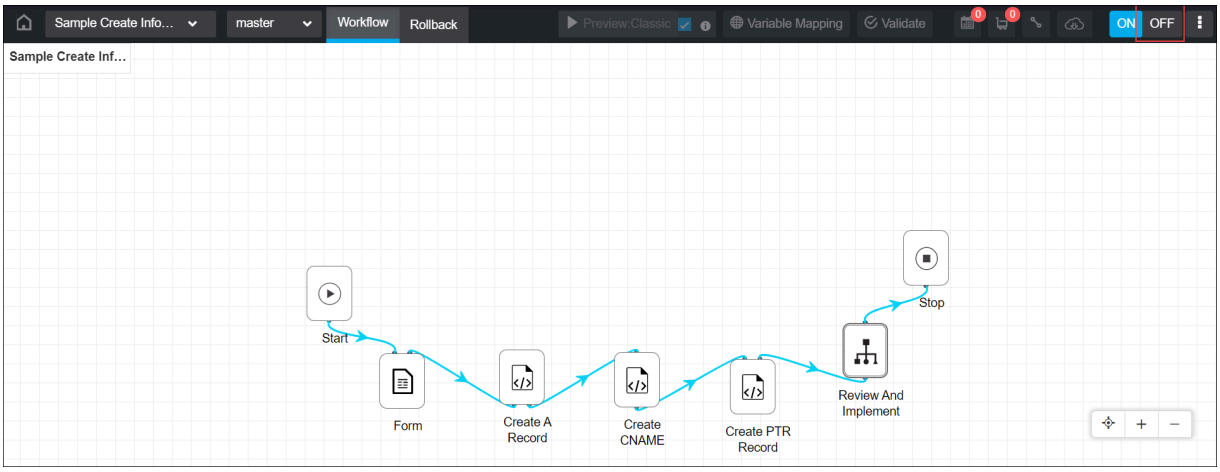
To customize the variables for a task,

1. Go to **Menu** > **Studio** > **Workflow**.
   The Workflows page appears:



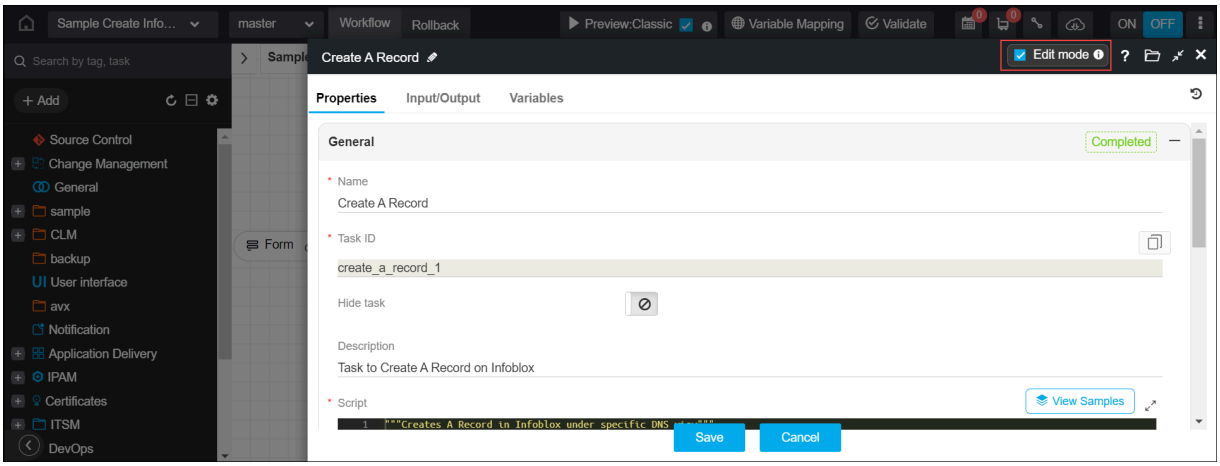
2. Click the workflow for which the variables are to be customized.
3. Disable the workflow by clicking the **OFF** toggle button.

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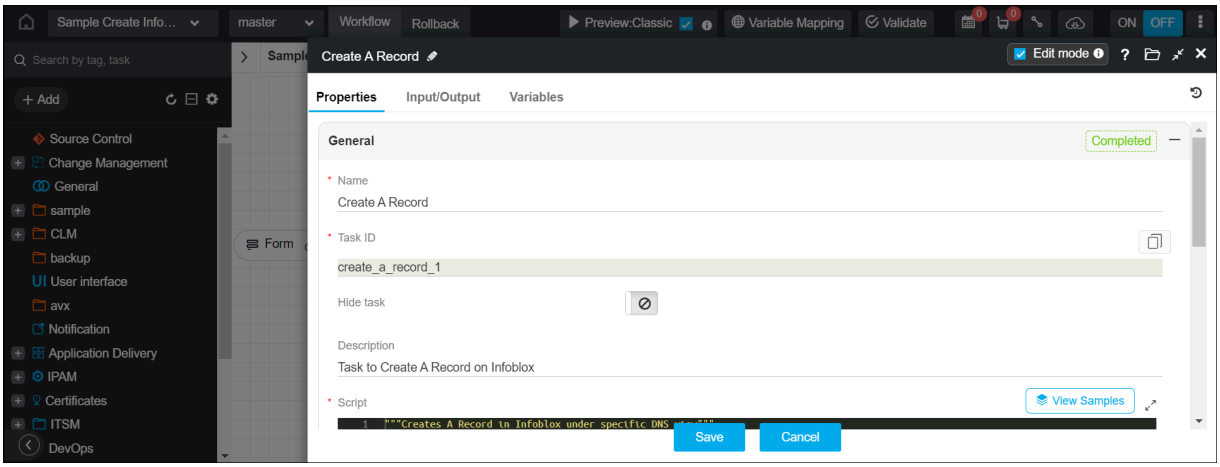
The Confirmation popup appears.

4. Click **Yes** to confirm the disabling workflow.
5. Click twice on the desired task to customize the variables.
6. Make sure the **Edit Mode** check box is selected.

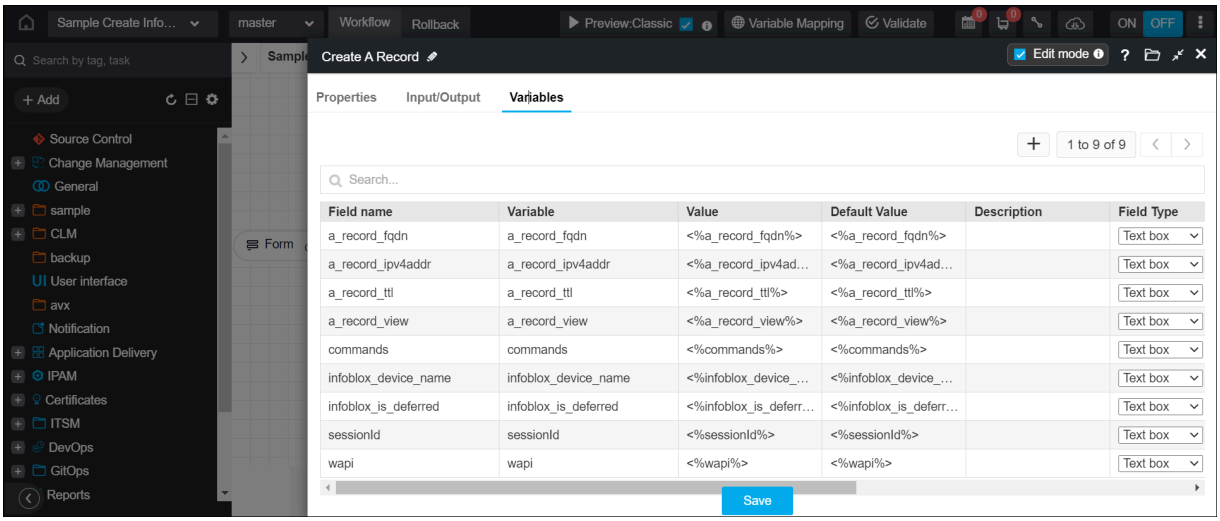


The workflow Properties page appears:

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7. Click the **Variables** tab.





Note: Make use of the scroll bar to view the details of the variables.

8. You can update any of the following details for the variables:

- **Field Type** - select the field type from the drop-down option. For example, Description, Password, Dropdown, etc.
- **Parent** - select the parent field from the drop-down option.
- **Type** - select the type from the drop-down option. For example, String, JSON, Email, etc.
- **Show variable**s - enable or disable the variable by clicking the toggle button.
- **Mandatory** - mark whether the field is mandatory or not by clicking the toggle button.

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9. Click the **Save** button, and then close the window.
   The updated variables are displayed in the form.

Designing BlueCat IPAM Automation Workflow

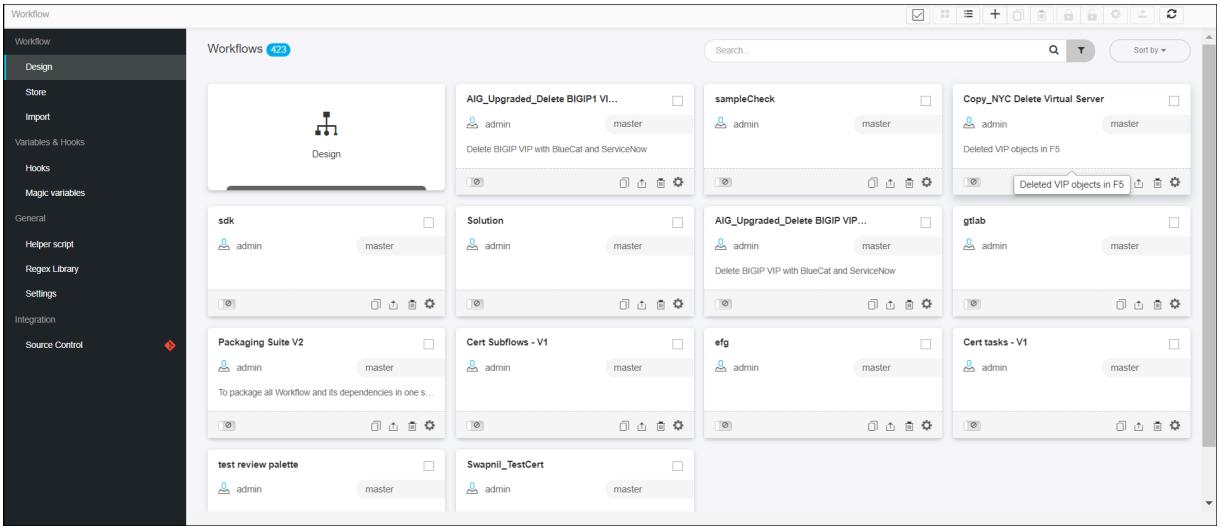
This section covers the following procedures:

- Sample workflow creation with A, CNAME, and PTR Records in BlueCat
- Customize the variables for a task
- Sample Workflow Creation with Pool, Pool Members, and Monitor
- Customize the Variable for a Task

Sample Workflow Creation with Pool, Pool Members, and Monitor

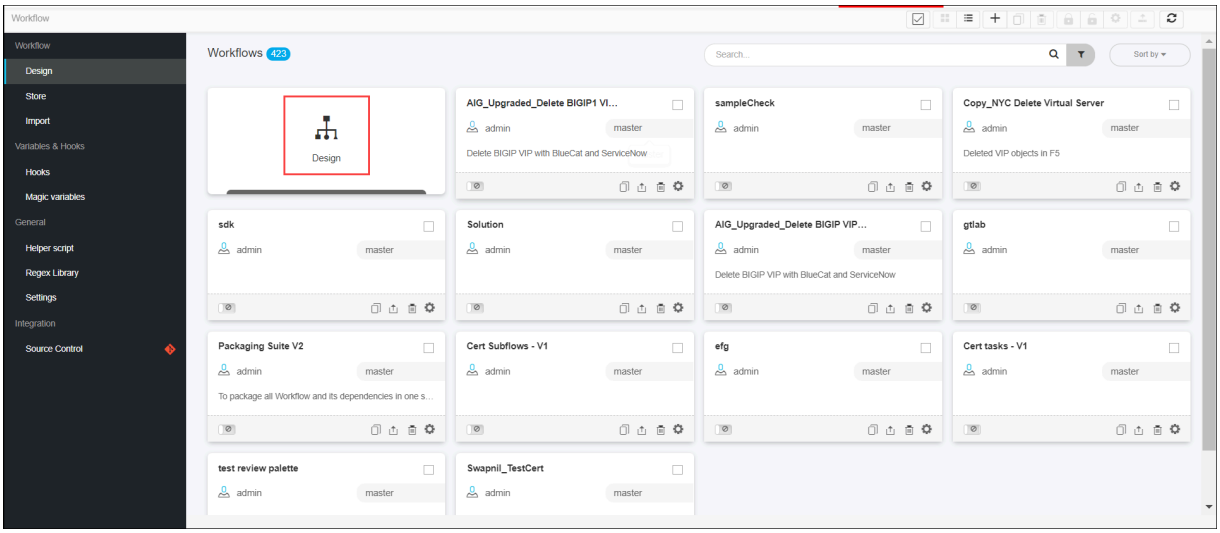
To create a WideIP with pool, pool members, and monitor,

1. Go to ☰ **Menu** > **Studio** > **Workflow**.
   The Workflows page appears:

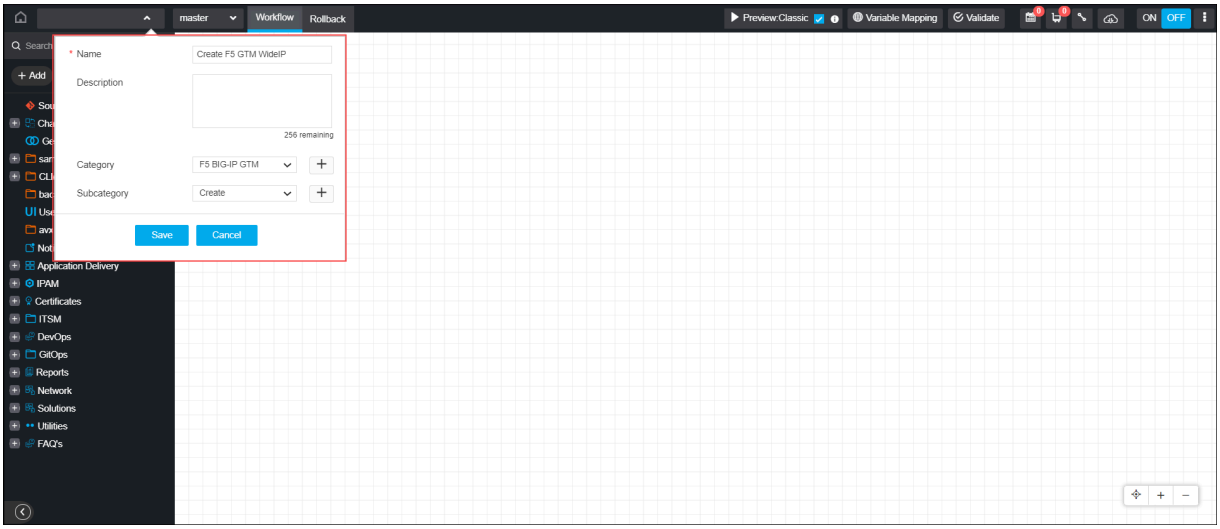


2. Click **Design** to create a new workflow.

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3. Enter or select the field information.



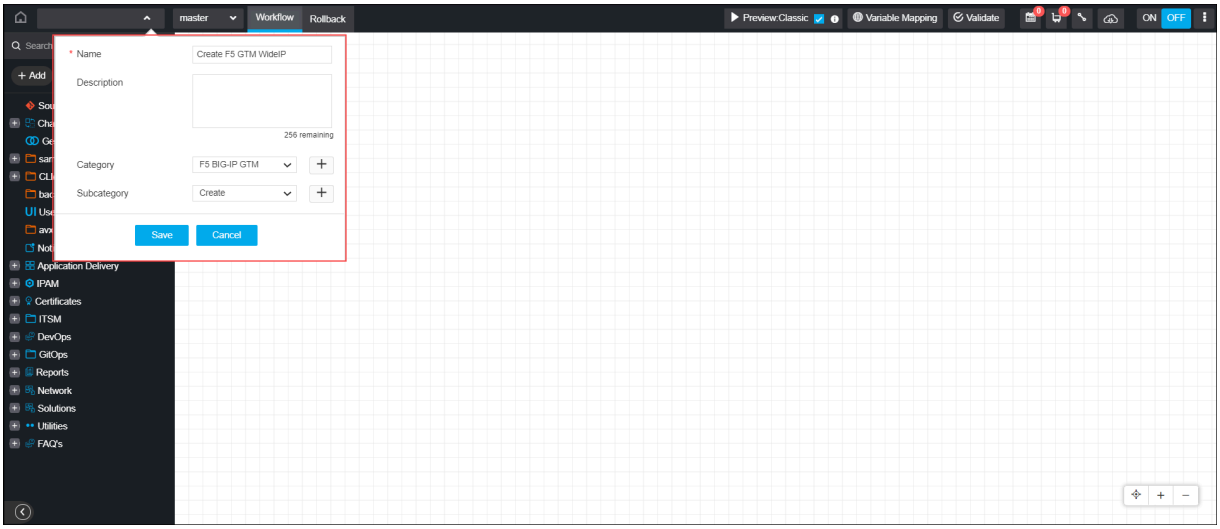
4. The following table provides the field description for designing a workflow for the BIG-IP GTM category:

Field	Description
*Name	Name of the workflow.
Description	Description for the workflow.
Category	Select the category as F5 BIG-IP GTM from the drop-down option.
Subcategory	Select sub-category for the workflows from the drop-down option. The possible options are:

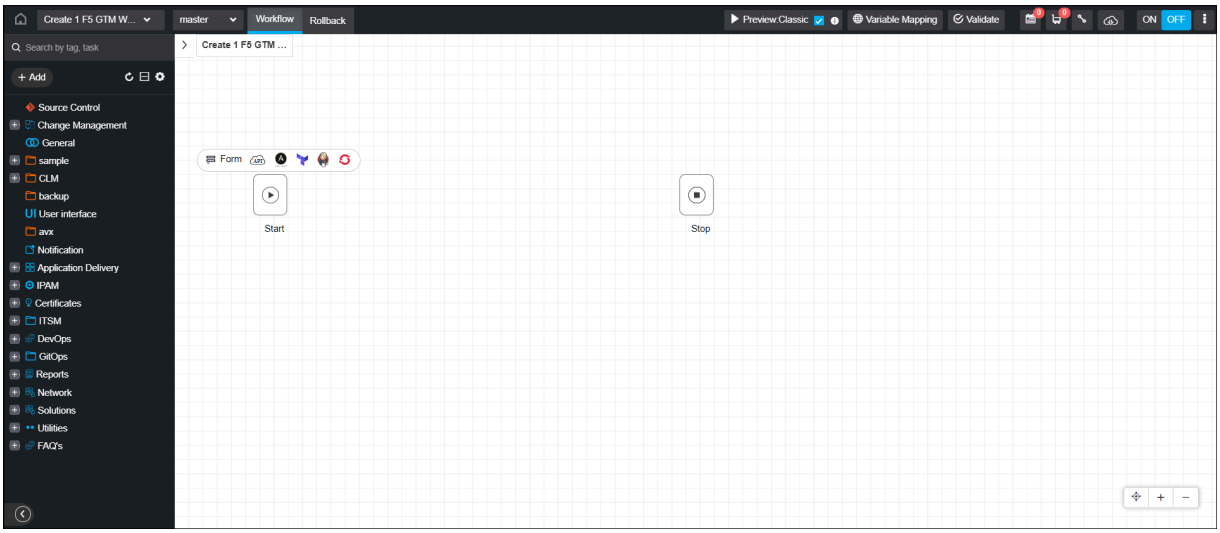
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Field	Description
	• Modify • Create • Default • Delete

5. Click the **Save** button.



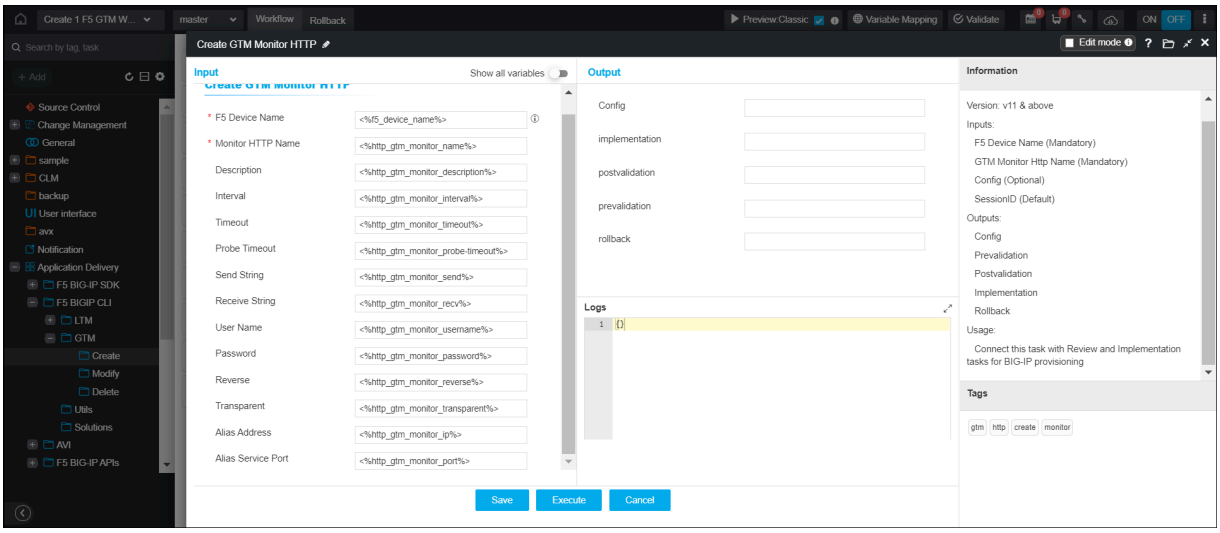
The workflow is created:



6. Go to **Application Delivery** > **F5 BIG IP CLI** > **GTM**.
7. Place any **Create GTM Monitor** task. For example, **Create GTM Monitor HTTP**.

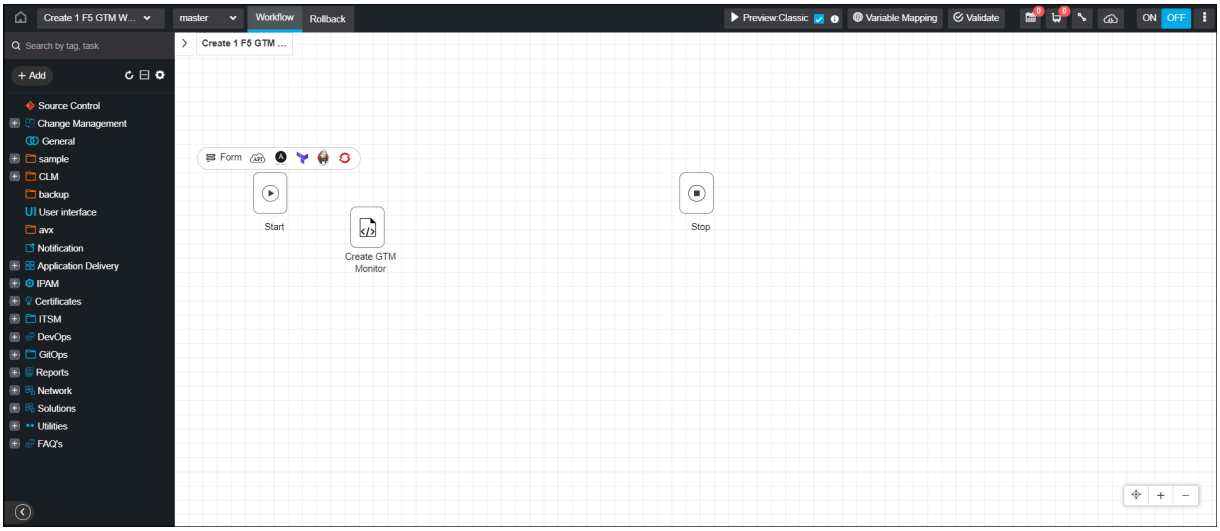
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The Input, Output, and Information data for **Create GTM Monitor** task are displayed:



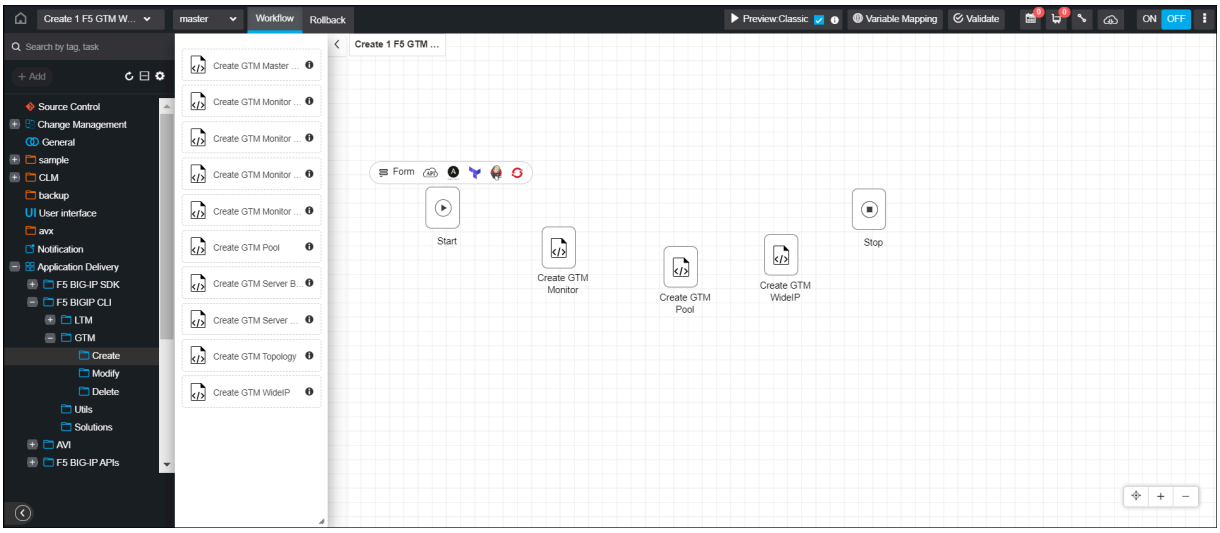
8. Click the **Save** button.

   The **Create GTM Monitor HTTP** task has been added to the workflow:

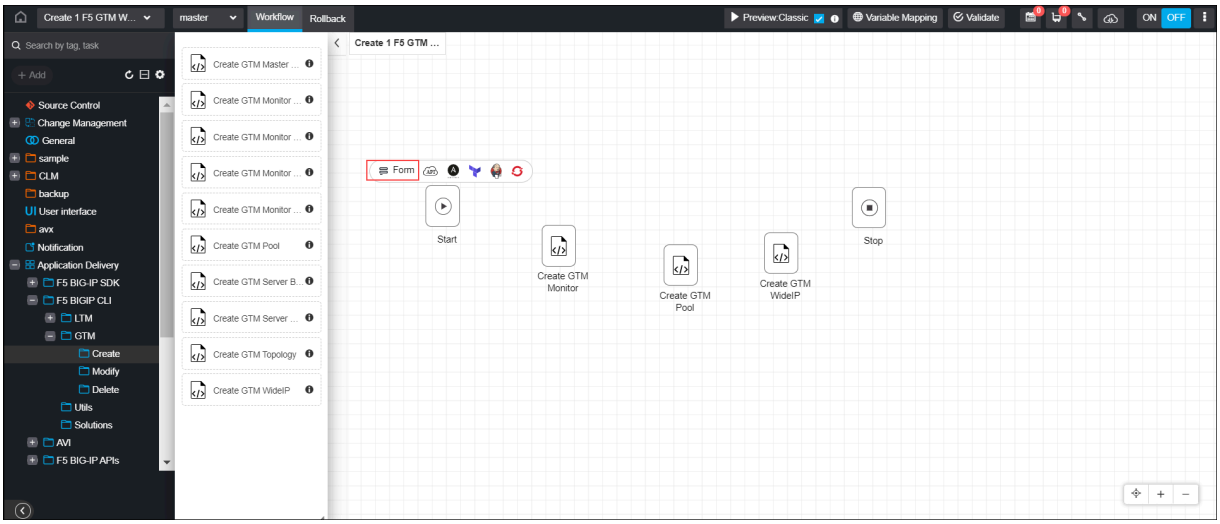


9. Similarly, place **Create GTM Pool** task and **Create GTM WideIP** task from the folder **Application Delivery** > **F5 BIG IP CLI** > **GTM**.

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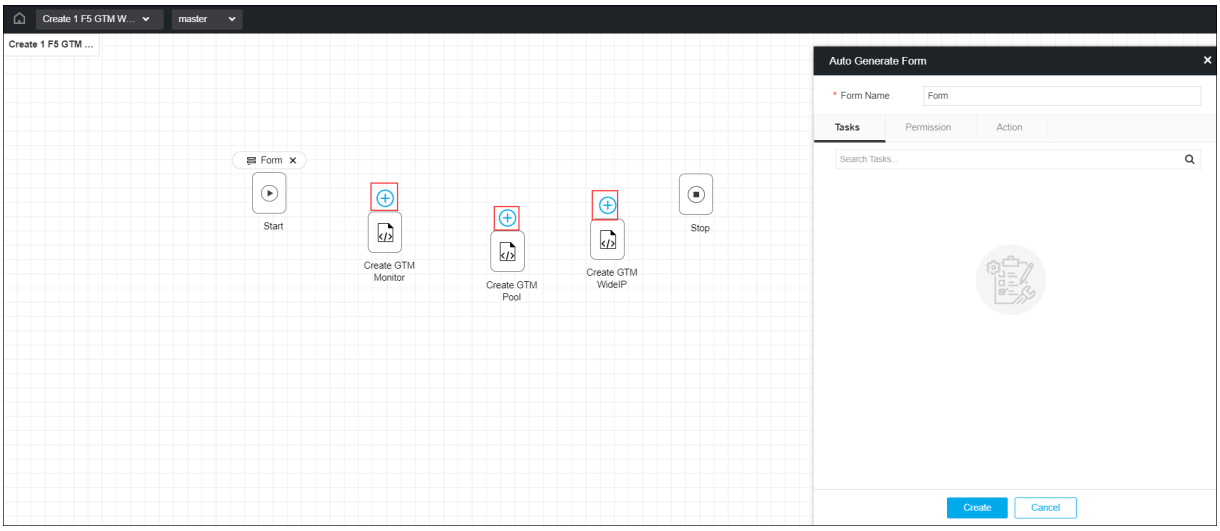


10. Click the **Form** in the Design page to auto-generate the form for the selected tasks.

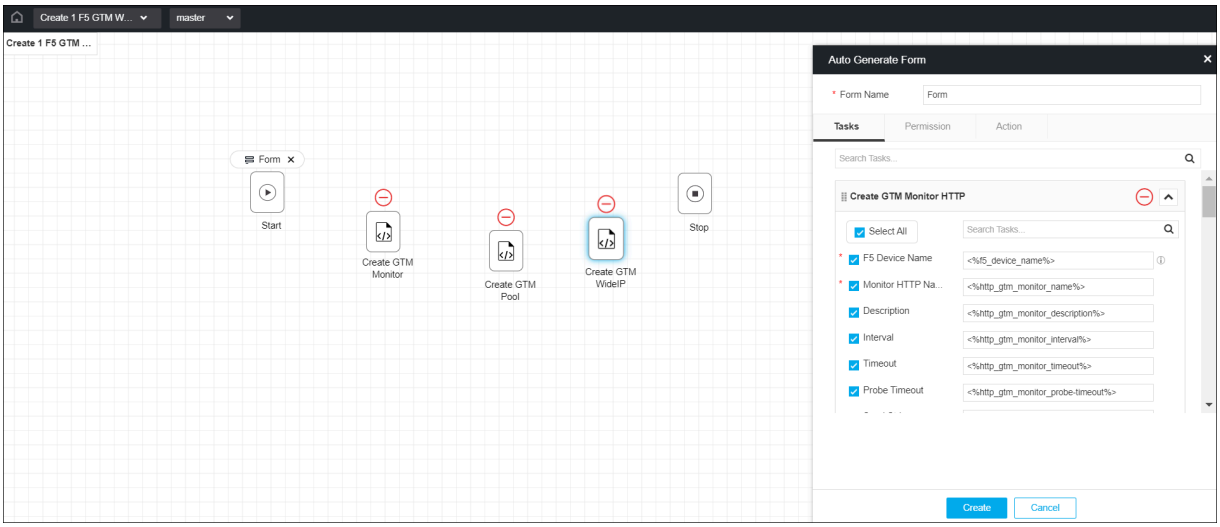


The **Auto Generated** Form appears:

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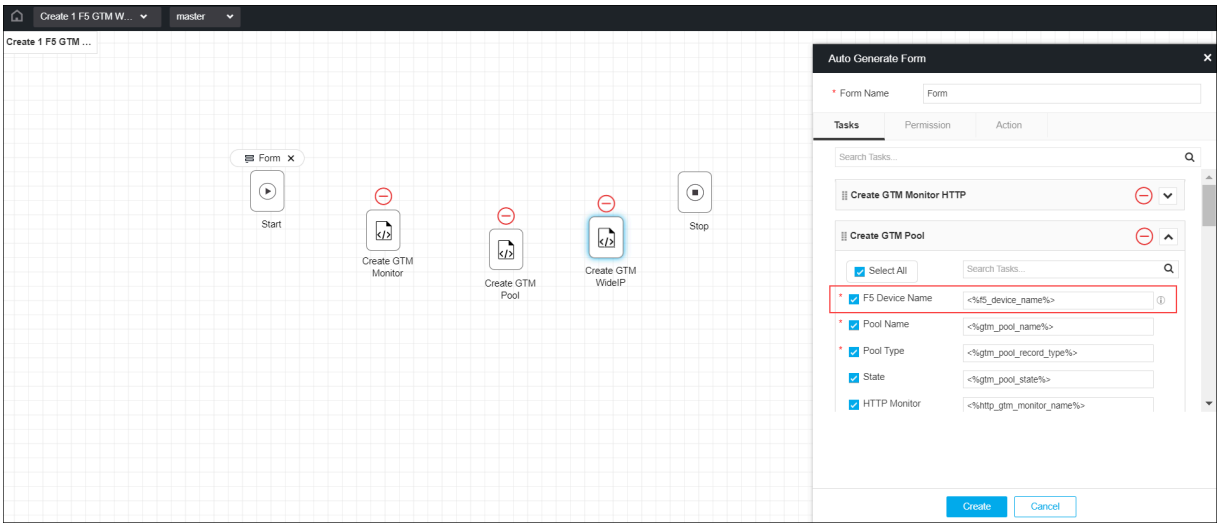


11. Click the add ( ) button of the **Create GTM Monitor HTTP** task, **Create GTM Pool** task and **Create GTM WideIP**.



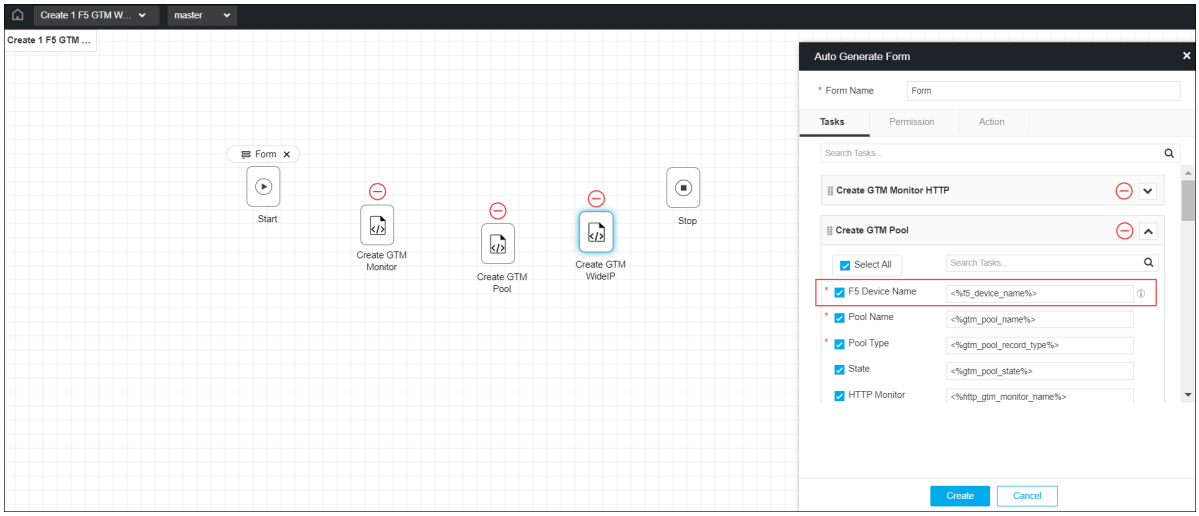
The tasks are added to the Auto Generate Form:

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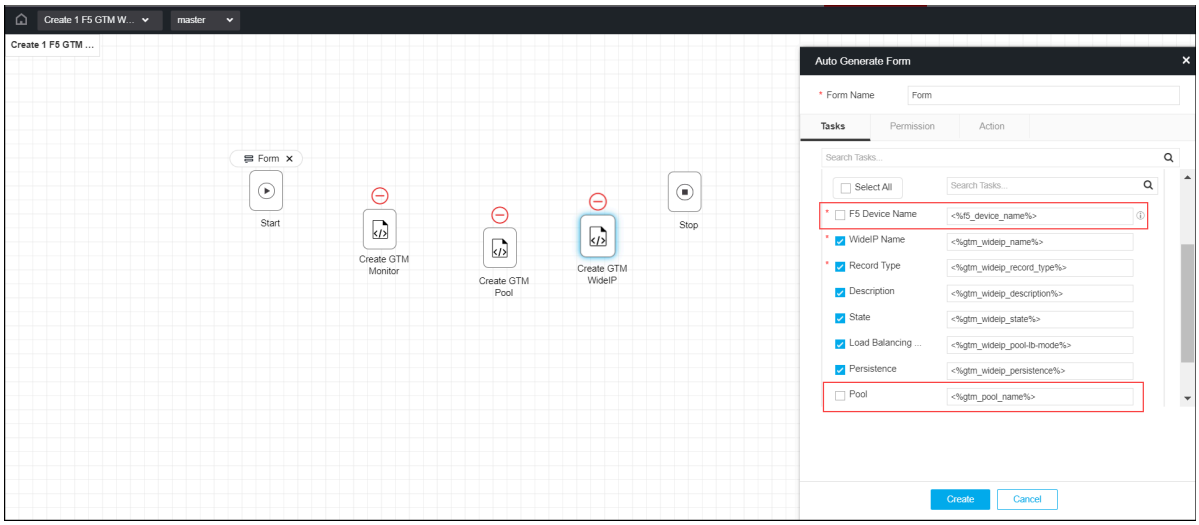
Note: The sequence of the tasks is maintained based on the add button clicked sequence on the tasks. If you want to alter the sequence after adding the tasks to the Auto Generate Form, delete the task(s) from the Auto Generate Form and add them again.

12. Verify all the fields and select/clear the checkbox of the fields to add them to the form.
13. The following fields are not to be selected to avoid duplication being shown in the form.
    - Clear the checkbox from the **F5 Device Name** field from the **Create GTM Pool** task and **Create GTM WideIP**.

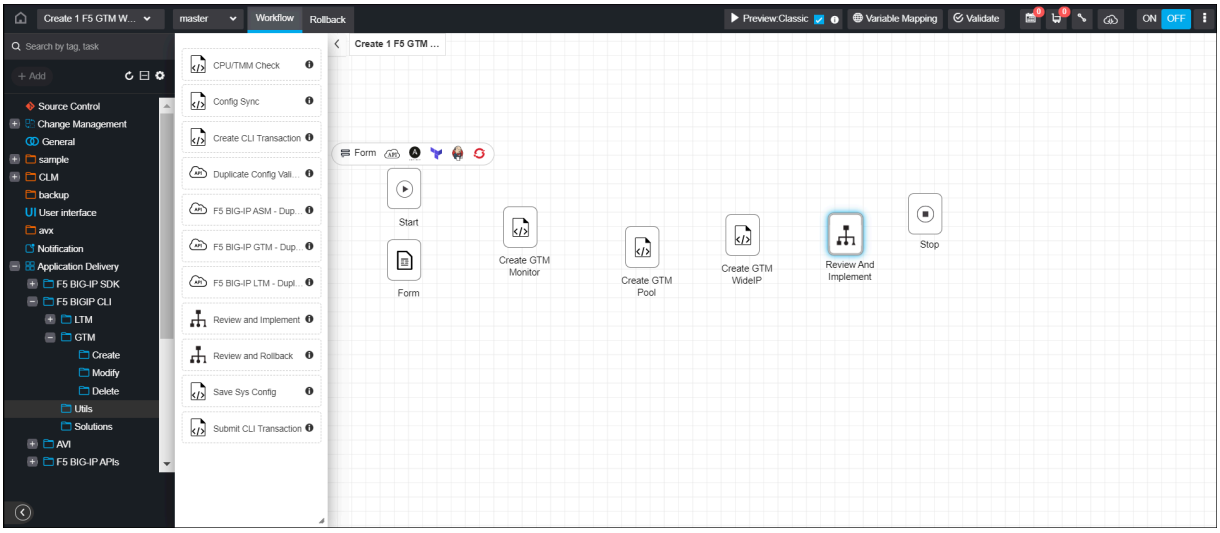


    - Clear the checkbox from the **F5 Device Name** and **Pool** fields from the **Create GTM WideIP** task.

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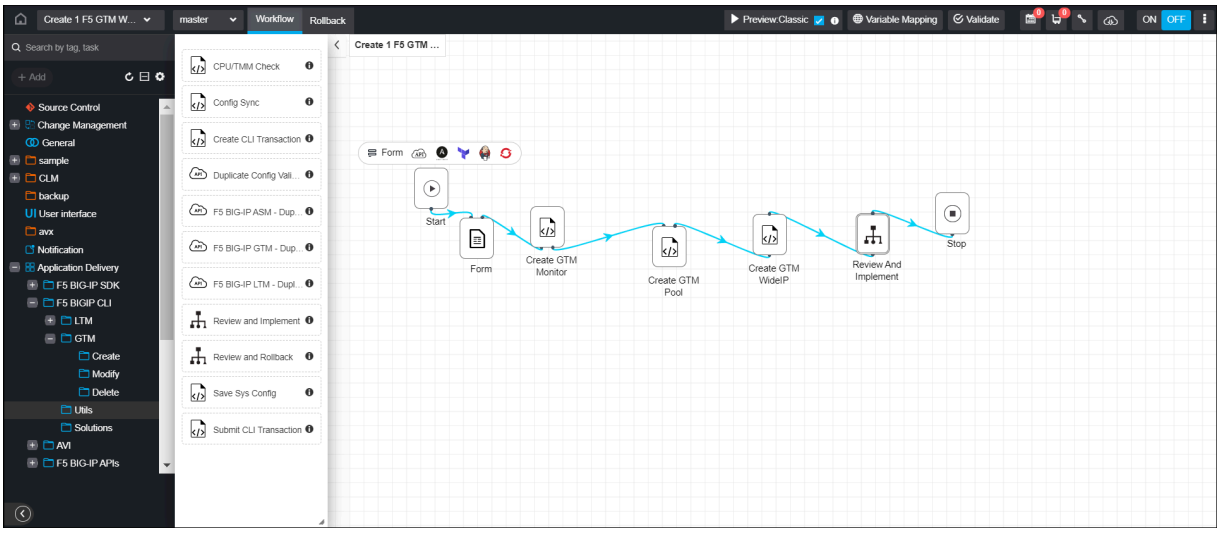


14. Click the **Create** button.
15. Go to **Application Delivery** > **F5 BIG IP CLI** > **Utils** folder, and then place **Review and Implement** subflow from the folder.

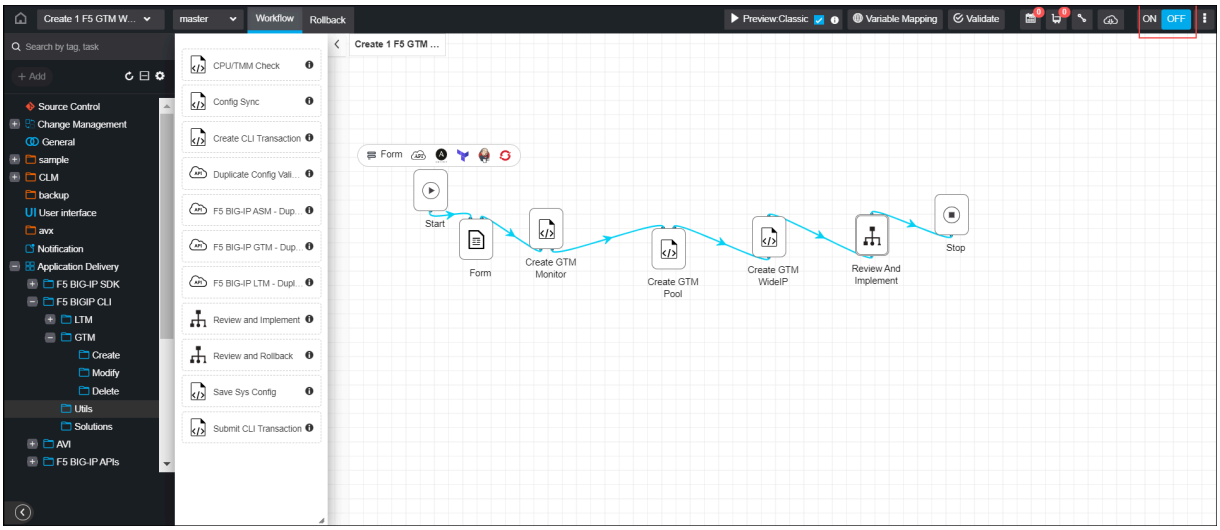


16. Connect all the tasks.

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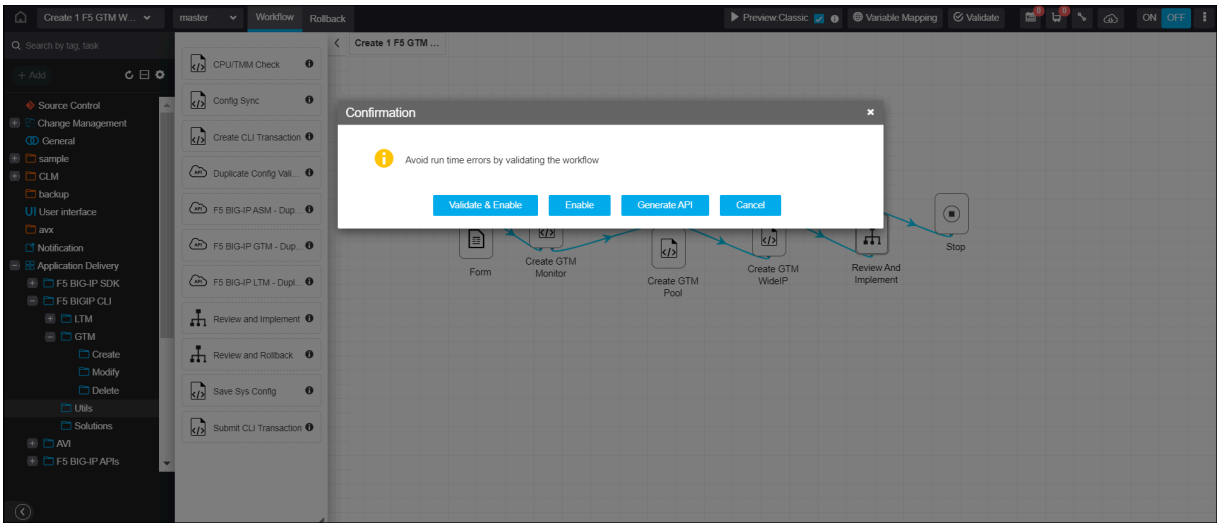


17. Enable the workflow by clicking the **ON** toggle button

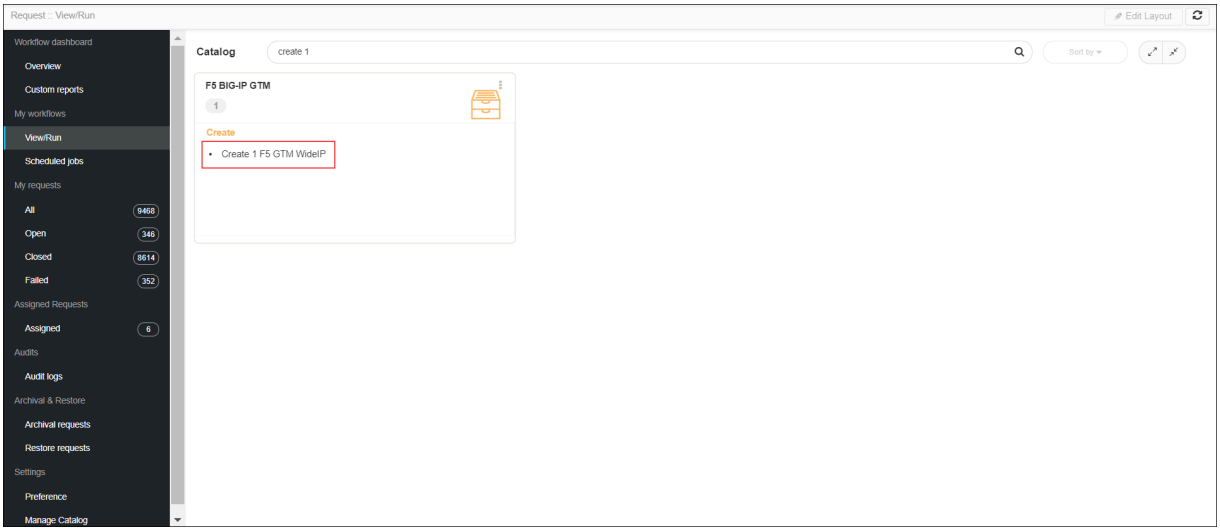


18. Click the **Validate & Enable** button.

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19. The workflow is added to the Workflow Catalog page.



20. Run and verify the workflow.

Customize the Variable for a Task

The variables can be customized for a task after creating a workflow also.

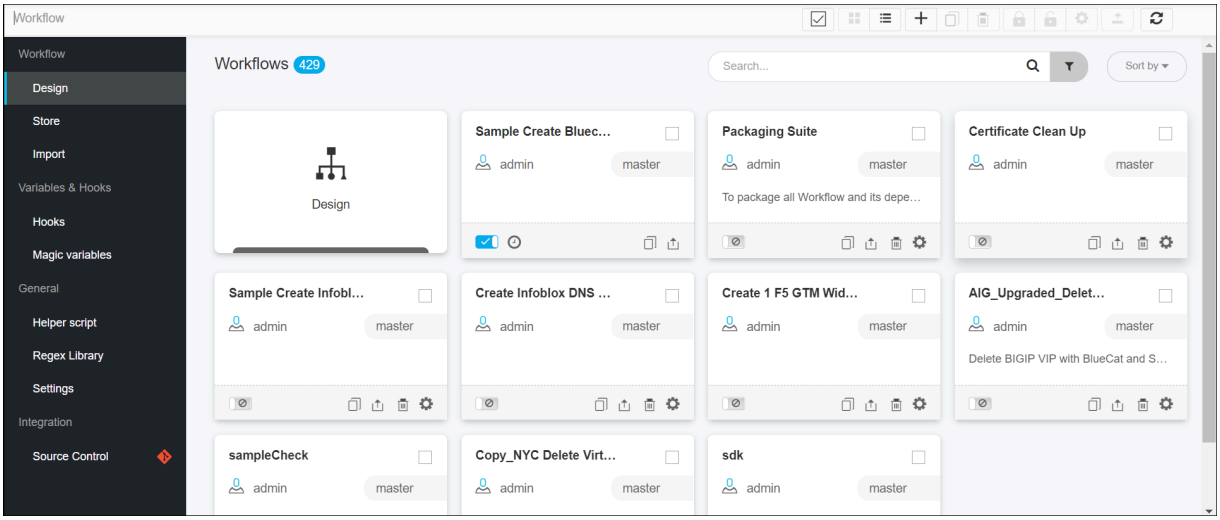
To customize the variables for a task,

1. Go to

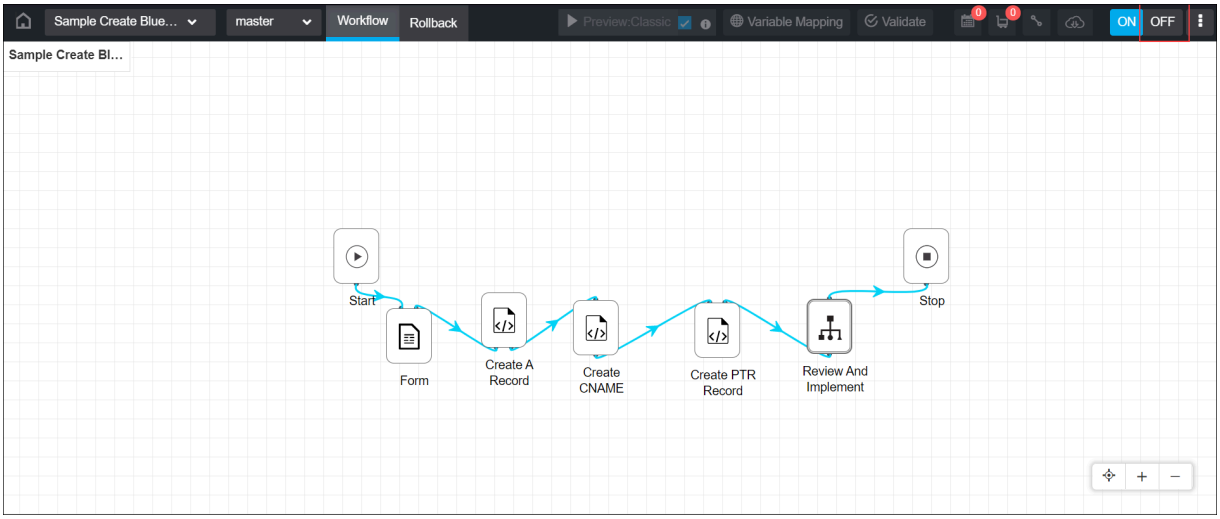
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Menu > **Studio** > **Workflow**.

The Workflows page appears:



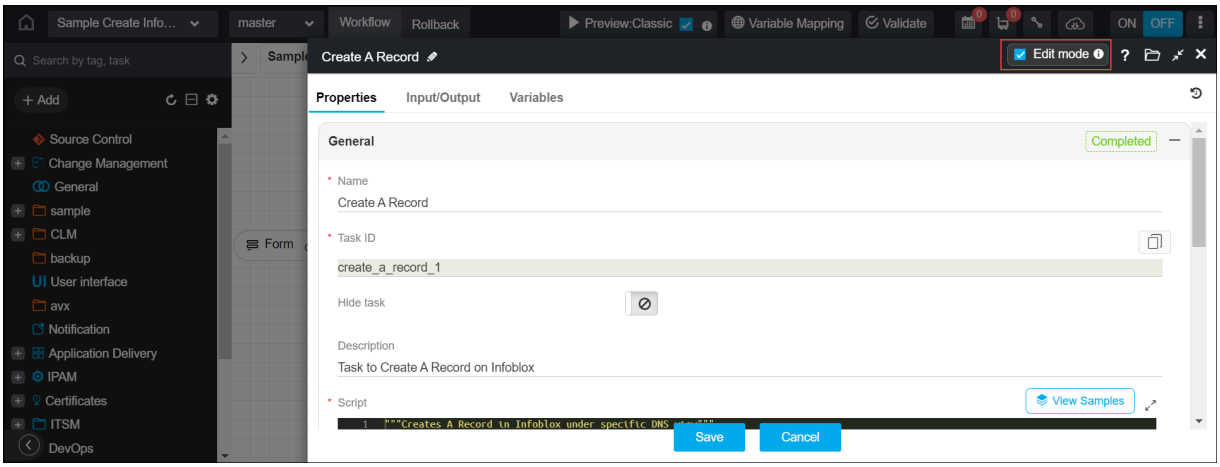
2. Click the workflow for which the variables are to be customized.
3. Disable the workflow by clicking the **OFF** toggle button.



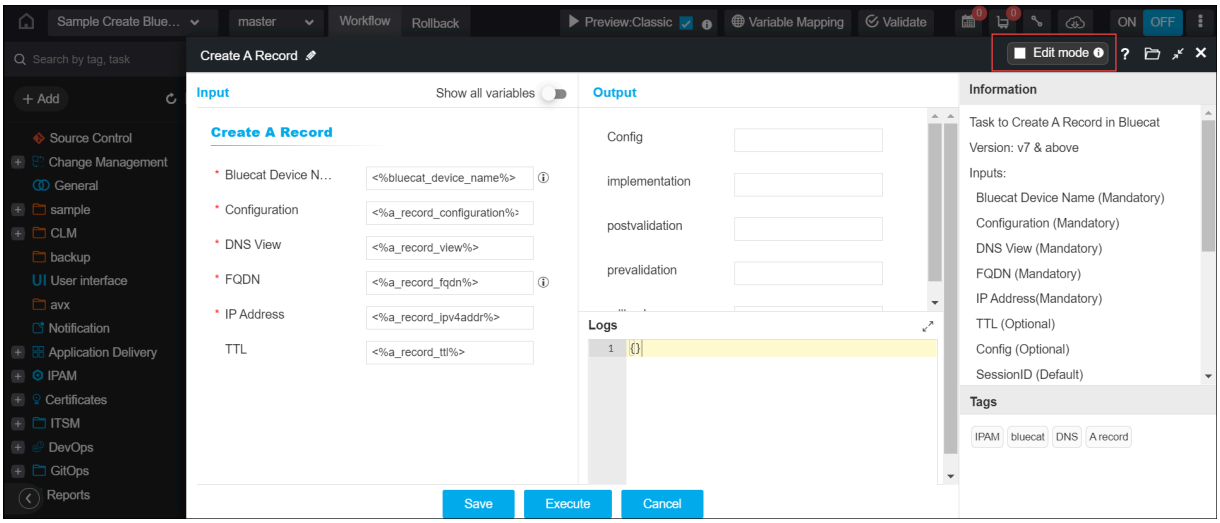
The Confirmation popup appears.

4. Click **Yes** to confirm the disabling workflow.
5. Click twice on the desired task to customize the variables.
6. Make sure the **Edit Mode** check box is selected.

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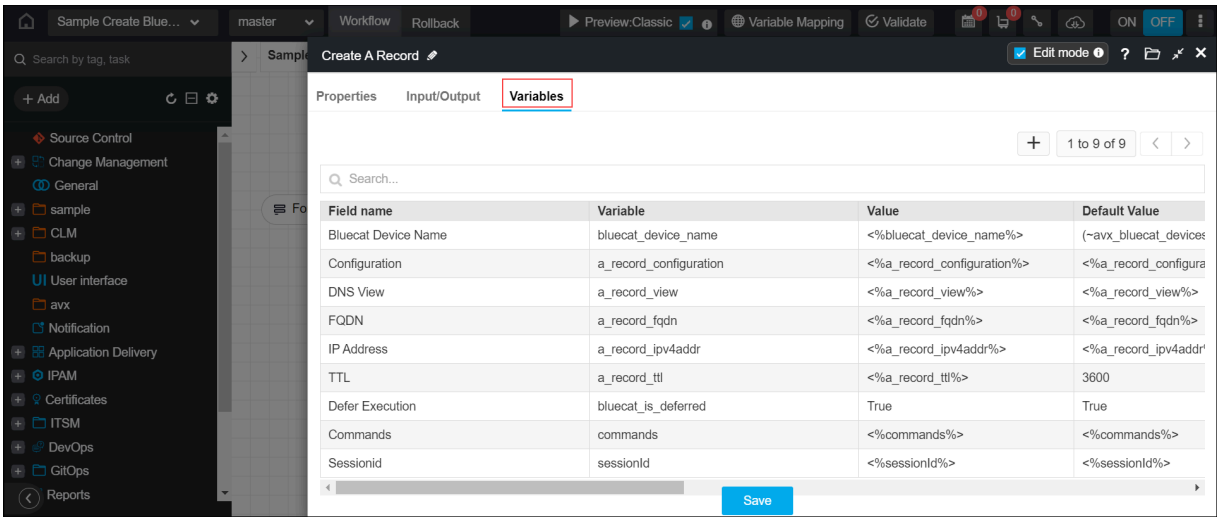


The workflow Properties page appears:



7. Click the **Variables** tab.

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Note: Make use of the scroll bar to view the details of the variables.

8. You can update any of the following details for the variables:
   - **Field Type** - select the field type from the drop-down option. For example, Description, Password, Dropdown, etc.
   - **Parent** - select the parent field from the drop-down option.
   - **Type** - select the type from the drop-down option. For example, String, JSON, Email, etc.
   - **Show variables** - enable or disable the variable by clicking the toggle button.
   - **Mandatory** - mark whether the field is mandatory or not by clicking the toggle button.
9. Click the **Save** button, and then close the window.
   The updated variables are displayed in the form.

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