



ADC Automation Workflow User Guide

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Preface

Revision History

Revision	Description	Date
1.1	Updated the document for Release 2020.3.0 FP11.	November 2023
1.0	Initial release of document for Release 2020.3.0	September 2020

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.
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
<code>codeblock</code>	Indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

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.

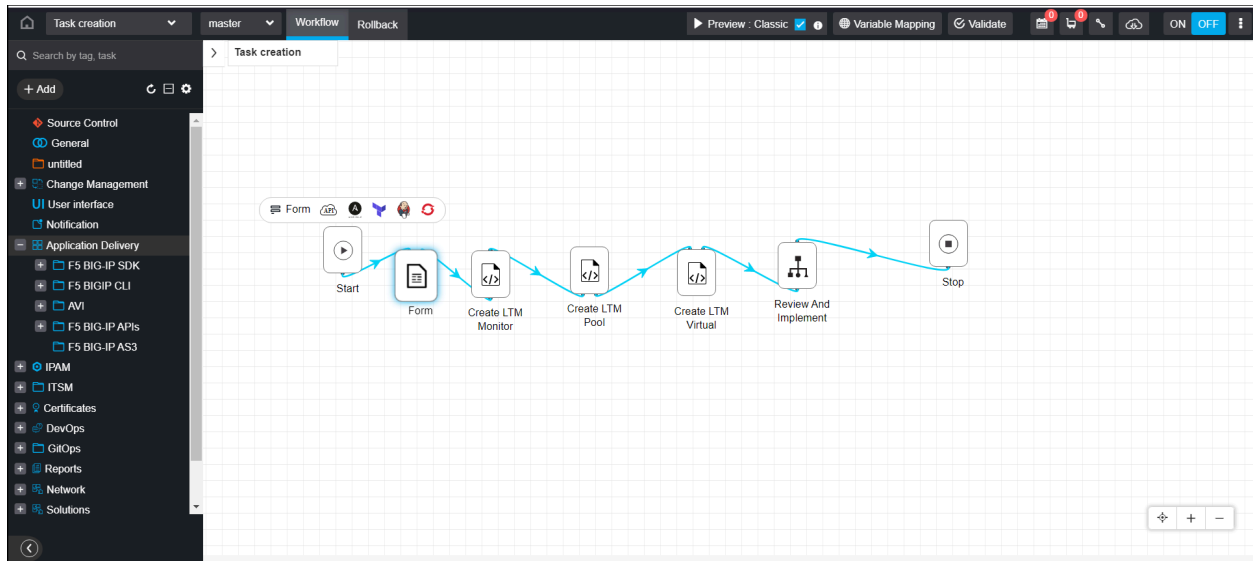
The workflows can integrate with other best-in-class IT service management solutions to govern and record service requests in the larger automated workflow. It can be leveraged to help users move faster, eliminate errors, and reduce costs.

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.




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 in to 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


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
- 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 VIP – Basic

This workflow creates VIP with Single Pool and Single Monitor.

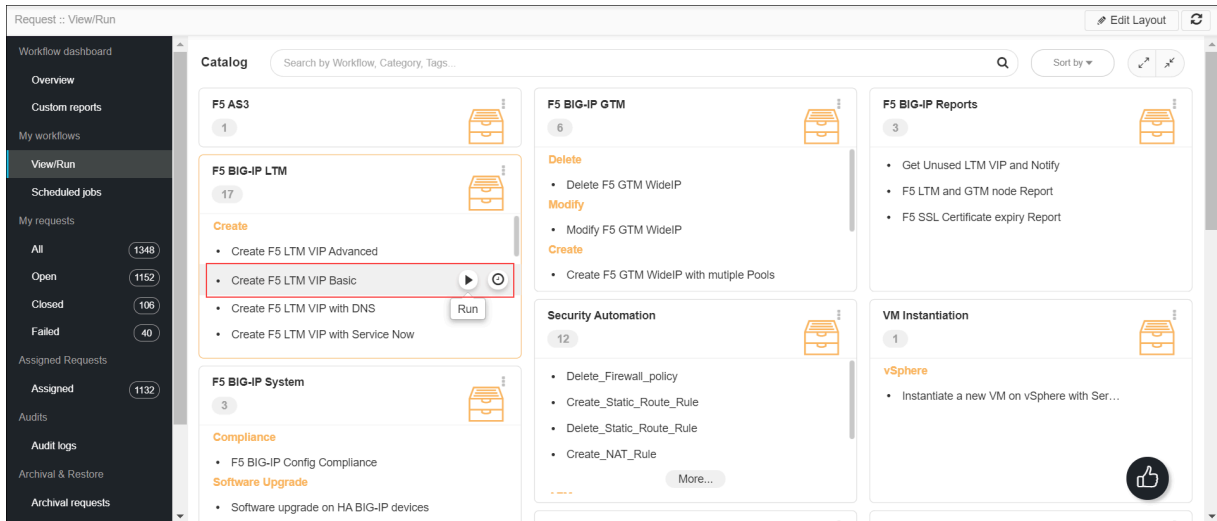
To run this workflow,


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

The Workflow Catalog page appears.

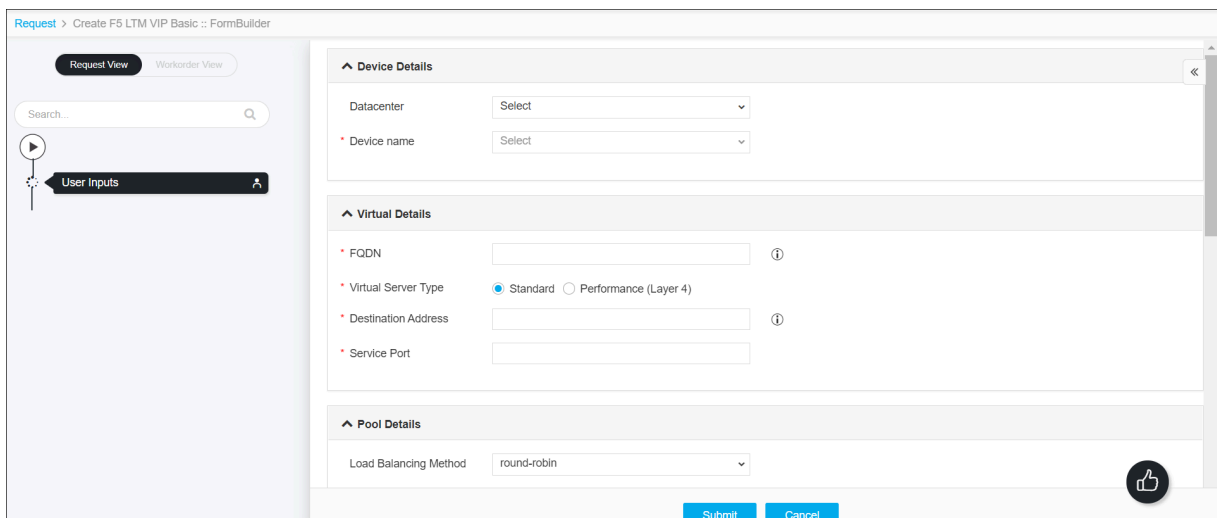
2. In the Workflow Catalog page, hover over the **Create F5 LTM VIP – Basic** workflow.

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.

^ Device Details

Datacenter

* Device name

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.

^ Virtual Details

* FQDN ⓘ

* Virtual Server Type Standard Performance (Layer 4)

* Destination Address ⓘ

* Service Port

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

Field	Description
*FQDN	Enter the FQDN of the virtual server.
*Virtual Server Type	<p>The attributes of this virtual server. The default is Standard.</p> <ul style="list-style-type: none"> • 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.

Pool Details

Load Balancing Method: round-robin

* Address:

* Service Port:

Pool Member status: user-enabled user-disabled

Priority Group:


Pool Members

Search...

<input type="checkbox"/>	Address	Service P...	Pool Member stat...	Ratio	Priority Gro...
<input type="checkbox"/>	10.10.100...	80	user-enabled		

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

Field	Description
Load Balancing Method	<p>The load balancing method is used to select a pool in this VS. The default is round-robin. The methods are:</p> <ul style="list-style-type: none"> • 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	<p>The current state of the pool members. The statuses are:</p> <ul style="list-style-type: none"> • 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.

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.

^ Snat Details

Snat Choice AutoMap SNAT

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: <ul style="list-style-type: none"> • 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.

^ Monitor Details

Monitor Type

Send String

Receive String

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

Field	Description
Monitor Type	Select the health monitors that are available to add for the pool: <ul style="list-style-type: none"> • HTTP • HTTPS • TCP • TCPHALFOPEN • Gatewayicmp
Send String	The text string that the monitor sends to the target object. You must include <code>\r\n</code> 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.

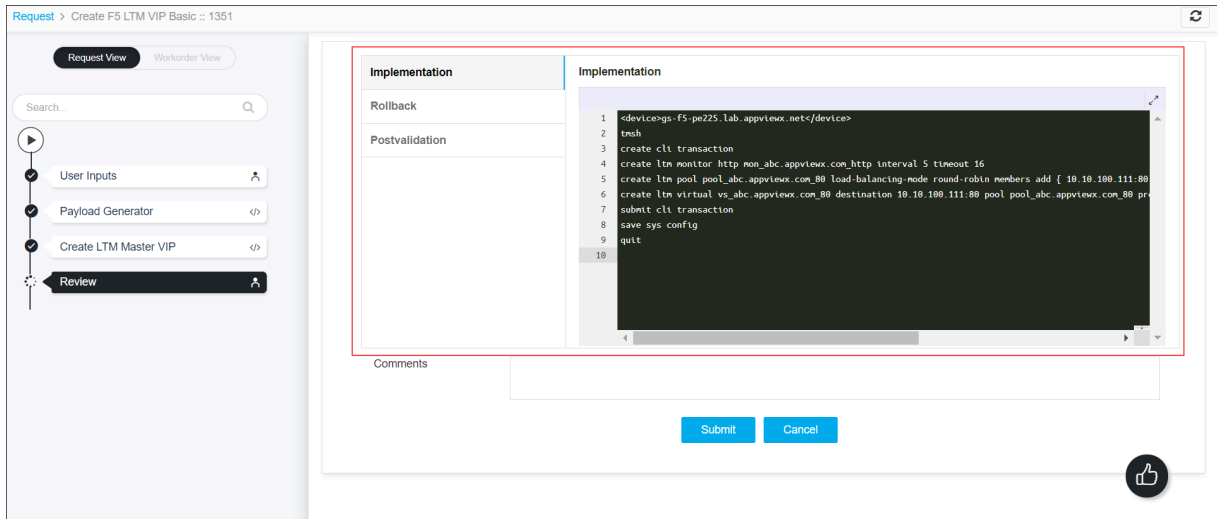
The validation starts automatically and reaches the **Review** stage.



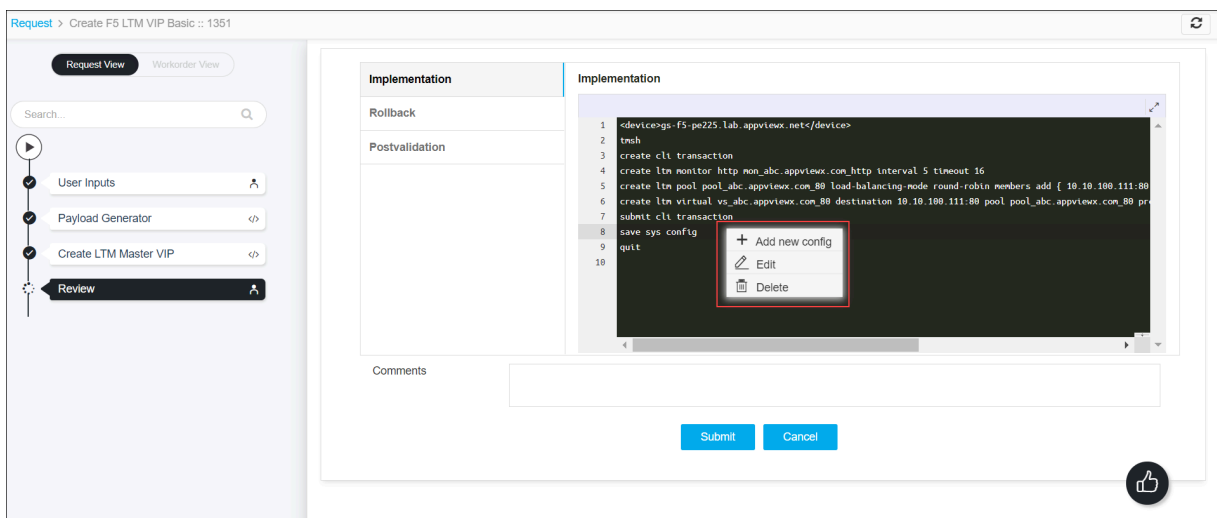
Note:

- 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:



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.

Request View Workorder View

Search...

- User Inputs
- Payload Generator
- Create LTM Master VIP
- Review
- CPU/TMM Check
- Implementation
- Postvalidation
- Email**

Diagram: Cloud -> Server (Email Success)

Logs - Email

```

1 07/08/2021 16:15:26 - Initiating Email
2 07/08/2021 16:15:26 - Email triggered: Email
3 07/08/2021 16:15:27 - Send Email failed: Email, Reason: Error while connecting to smtp server
4 07/08/2021 16:15:27 - Email Failed
5

```




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

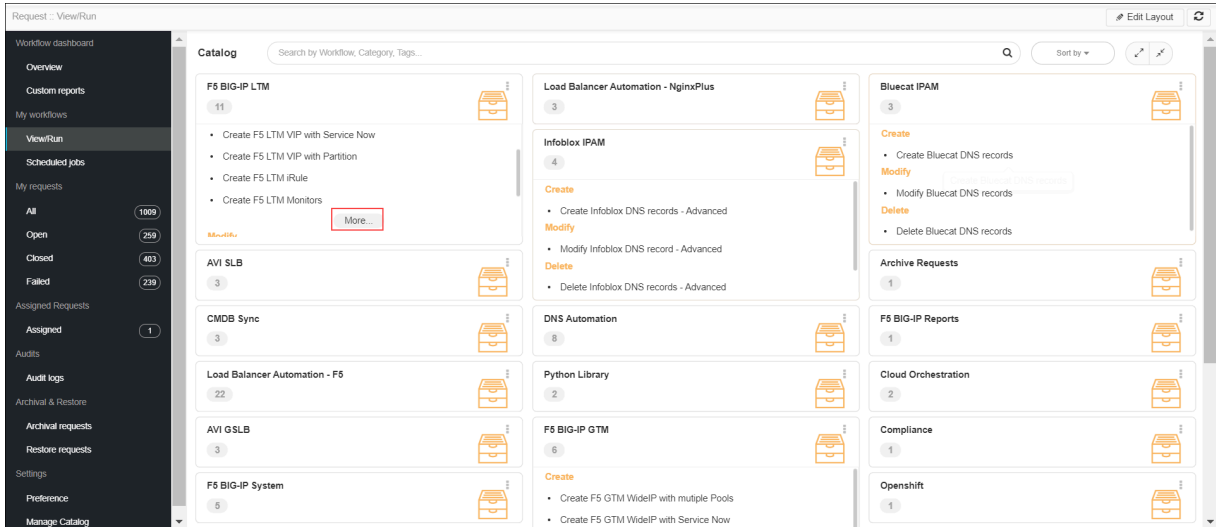
This workflow creates App Owner Centric VIP.

To run this workflow,

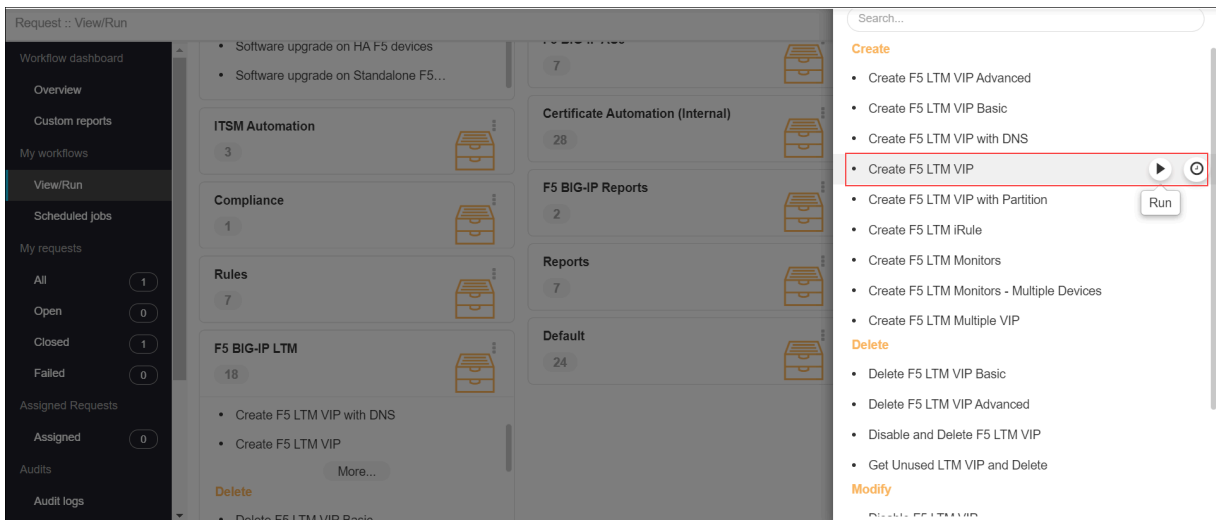
1. Go to  **Menu** > **Request** > **View/Run**.


The Workflow Catalog page appears.

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

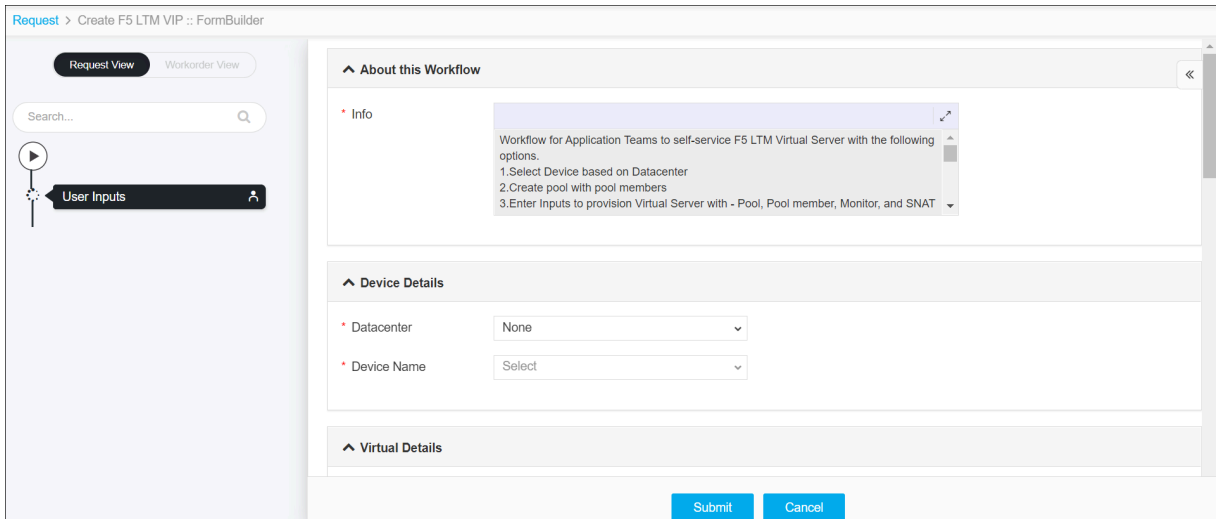


3. Hover over the **Create F5 LTM VIP** workflow.
The Run and Schedule buttons are shown.



4. Click the Run  button.

The Form Input page opens:



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.

^ Virtual Details

* Application Name ⓘ

* Do you need to Enable SSL Certificates? ⓘ

* Destination Address ⓘ

* Service Port ⓘ

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?	<p>Select any of the following options to enable SSL certificates. The default option is No-InSecure Site.</p> <ul style="list-style-type: none"> • No-InSecure Site • Yes - Only the servers will have SSL certificates <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <p>* Enable HTTP to HTTPs redirection? <input checked="" type="radio"/> No <input type="radio"/> Yes ⓘ</p> </div> <ul style="list-style-type: none"> • 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.

Pool Details

Load balancing method:

* Address: ⓘ

* Service Port: ⓘ


State: user-enabled user-disabled

Pool Members

<input type="checkbox"/>	Address	Service Port	State	Ratio
No records found				

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

Field	Description
Load Balancing Method	<p>The load balancing method used to select a pool in this WideIP. The default is round-robin. The methods are:</p> <ul style="list-style-type: none"> • 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:

Field	Description										
	<ul style="list-style-type: none"> • 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	<p>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.</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>Pool Members ↗</p> <p>Search...</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30px;"><input type="checkbox"/></th> <th style="width: 20%;">Address</th> <th style="width: 20%;">Service Port</th> <th style="width: 20%;">State</th> <th style="width: 10%;">Ratio</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/></td> <td>59.6.22.33</td> <td>88</td> <td>user-enabled</td> <td></td> </tr> </tbody> </table> </div>	<input type="checkbox"/>	Address	Service Port	State	Ratio	<input type="checkbox"/>	59.6.22.33	88	user-enabled	
<input type="checkbox"/>	Address	Service Port	State	Ratio							
<input type="checkbox"/>	59.6.22.33	88	user-enabled								

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

Monitor Details

Monitor / Health Check Type HTTP TCP i

Request Method and URI i

Expected Response i

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

Field	Description
Monitor / Health Check Type	<p>Select the health monitors that are available to add for the pool:</p> <ul style="list-style-type: none"> • HTTP • TCP
Request Method and URI	<p>The text string that the monitor sends to the target object. You must include <code>\n</code> at the end of a non-empty Send String. The default setting is <code>GET /\n</code>, which retrieves a default HTML file for a website. To retrieve a specific page from a website, specify a fully qualified path name</p>

Field	Description
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	<p>Select the SNAT choice for any connections using this pool. The options are:</p> <ul style="list-style-type: none"> • 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: <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> * Snat Pool <input type="text" value="Select"/> </div>

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

^ Persistence Details

Persistence None Create New Existing

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

Field	Description
Persistence	<p>This option allows you to use a pre-configured object that automatically enables persistence when you assign the profile to a virtual server.</p> <ul style="list-style-type: none"> • None • Create New - create a new persistence by providing persistence details: <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <p>* Persistence Type <input type="text" value="Select"/></p> </div> • Existing - select the existing persistence details: <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <p>* Persistence Type <input type="text" value="Select"/></p> <p>* Select Persistence <input type="text" value="Select"/></p> </div>

17. Click the **Submit** button.

18. The Confirmation popup opens.



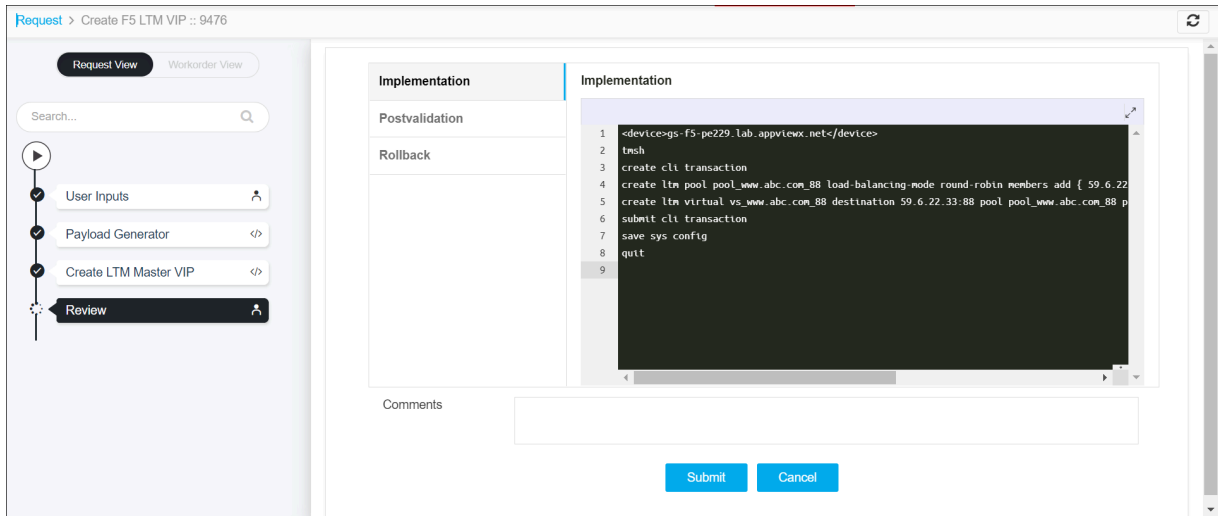
Note:

- 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.

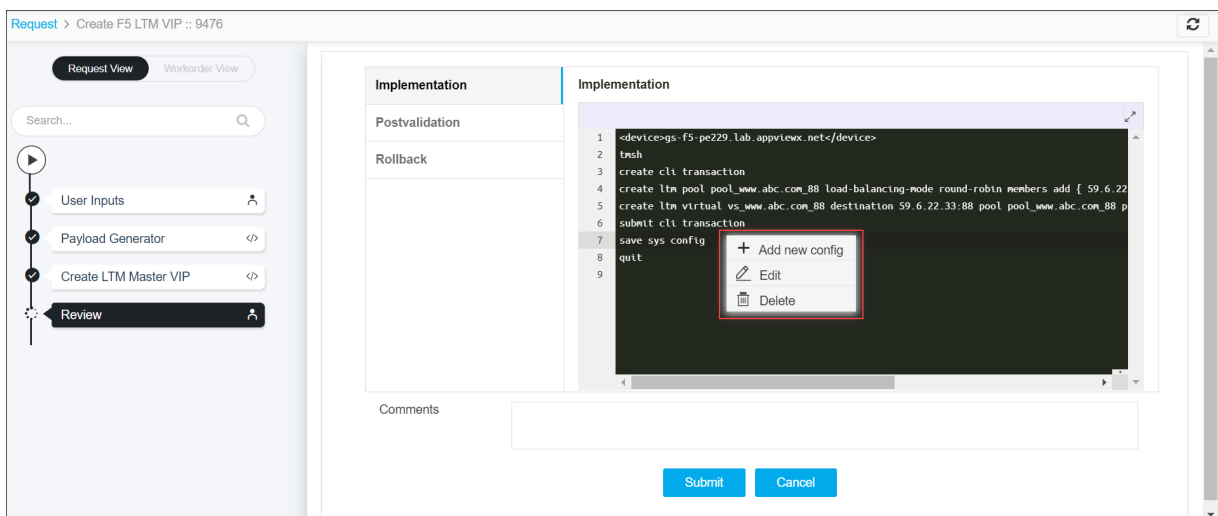
19. Click **Ok** to submit the form.

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

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



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.




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

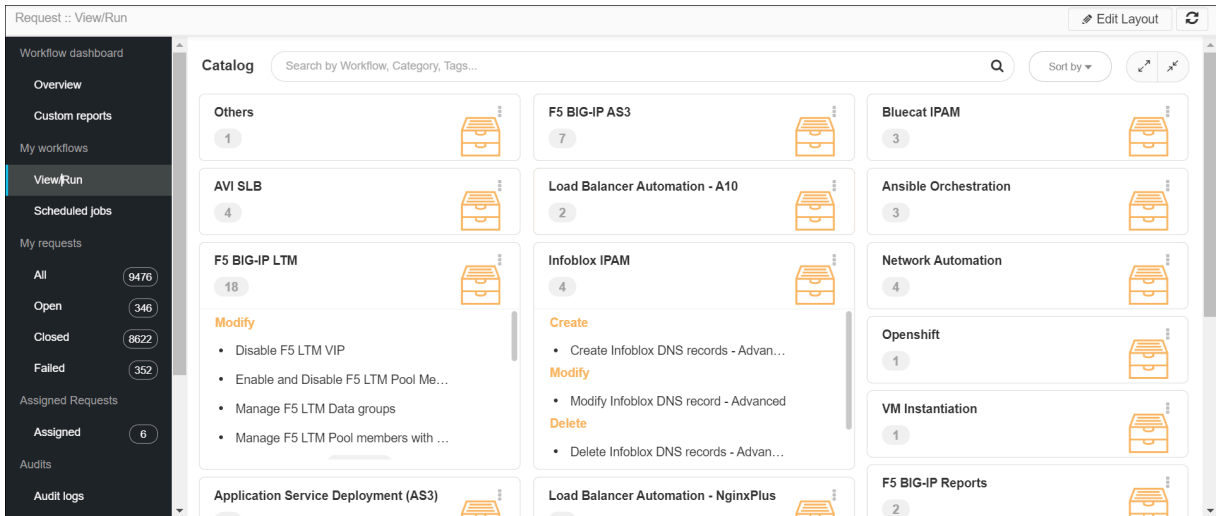
Create F5 LTM VIP with DNS

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

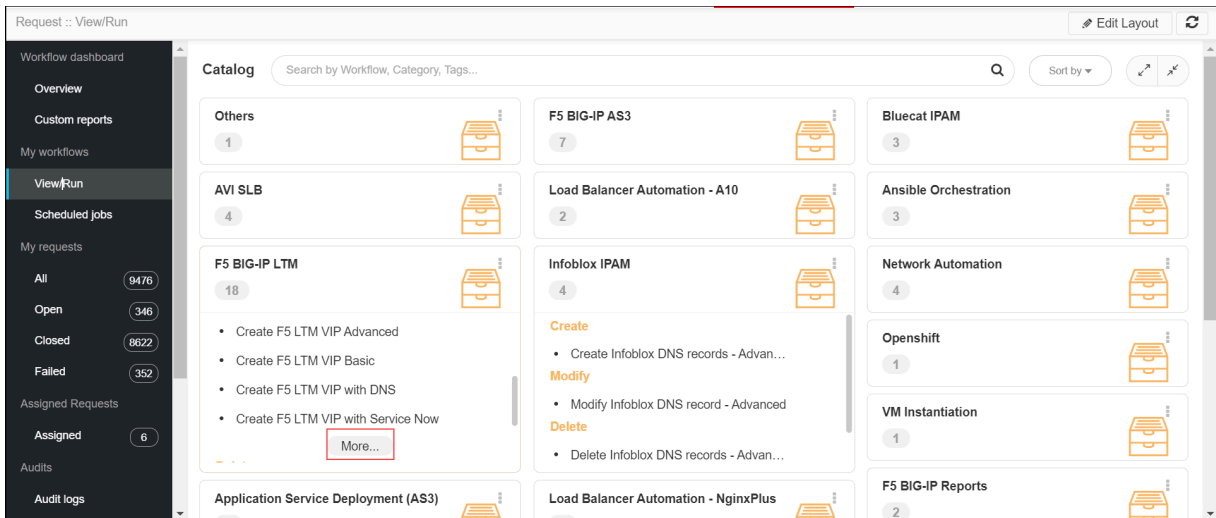
To run this workflow,

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

The Workflow Catalog page appears.

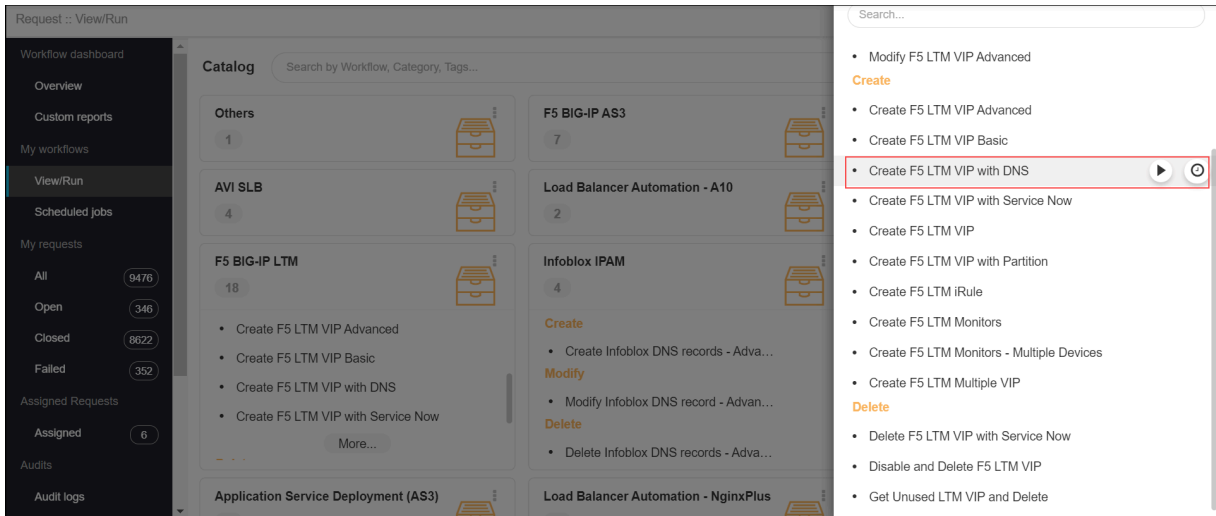


2. In the Workflow Catalog page, click **More** under the category **F5 BiG-IP LTM > Create**.



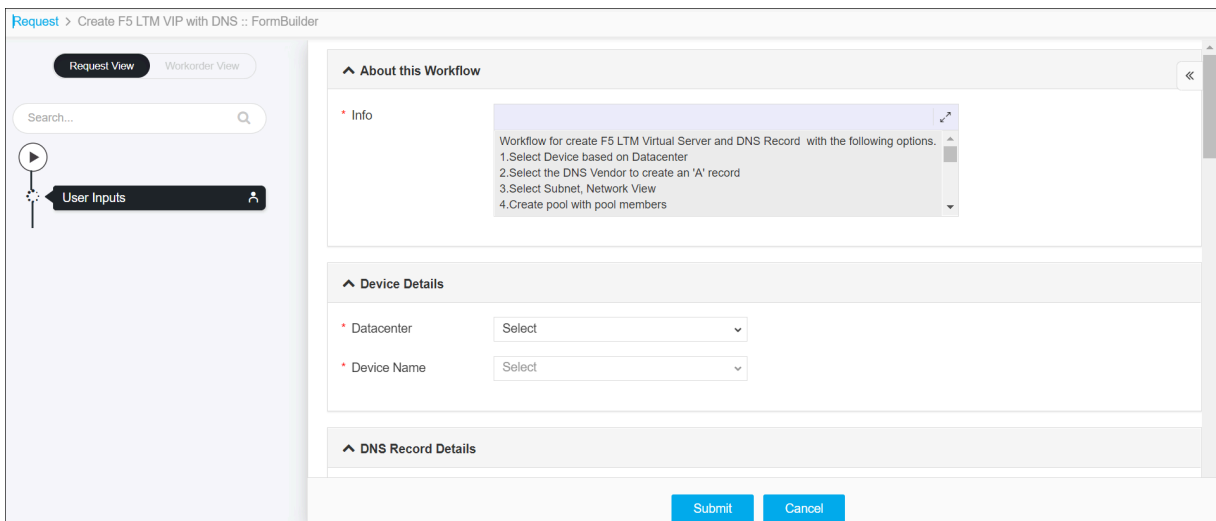
3. Hover over the **Create F5 LTM VIP with DNS** workflow.

The Run and Schedule buttons are shown.



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.

^ **Device Details**

* Datacenter

CBE
v

* Device Name

gs-f5-pe229.lab.appviewx.net
v

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.

^ DNS Record Details

Do you want to create A record ? No Yes

Vendor

DNS Device

* Configuration

* Network View

* Subnet

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 ?	<p>The default option is No.</p> <p>To create A record in DNS select Yes and provide the Vendor, DNS Device, Network View, and Subnet details:</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p>Do you want to create A record ? <input type="radio"/> No <input checked="" type="radio"/> Yes</p> <p>Vendor <input type="text" value="Infoblox"/></p> <p>DNS Device <input type="text" value="gs-infoblox-pe15.apvxlabs.com"/></p> <p>Network View <input type="text" value="Select"/></p> <p>Subnet <input type="text" value="Select"/></p> </div>

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

^ Virtual Details

* FQDN/Application Name ⓘ

* Do you need to Enable SSL Certificates? ▼

IP Choice Manual Next Available IP from DNS

* SLB VIP IP

* SLB VIP Port Number

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?	<p>Select any of the following options to enable SSL certificates. The default option is No-InSecure Site.</p> <ul style="list-style-type: none"> • No-InSecure Site • Yes - Only the servers will have SSL certificates <div style="border: 1px solid #ccc; padding: 5px; margin: 5px 0;"> <p>* Enable HTTP to HTTPs redirection? <input checked="" type="radio"/> No <input type="radio"/> Yes ⓘ</p> </div> <ul style="list-style-type: none"> • No – The only Client will have an SSL Certificate • Yes - Both Client and Servers will have SSL certificates
IP Choice	<p>This option is applicable when a DNS record is to be created. Select any of the following IP choices:</p> <ul style="list-style-type: none"> • 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 Fetch Next Available IP and Reserve button. <div style="border: 1px solid #ccc; padding: 5px; margin: 5px 0;"> <p>IP Choice <input type="radio"/> Manual <input checked="" type="radio"/> Next Available IP from IPAM</p> <p style="text-align: center; background-color: #00a0e3; color: white; padding: 5px; display: inline-block; border-radius: 3px;">Fetch Next Available IP and Reserve</p> </div>

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.

Pool and Monitor Details

Load balancing method:

* Server IP Address:

* Server Port:

Server State: user-enabled user-disabled

Server Details Table

<input type="checkbox"/>	Server IP Address	Server Port	Server State	Ratio
No records found				


Monitor / Health Check Type: Http TCP

Request Method and URI: ⓘ

Expected Response: ⓘ

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

Field	Description
Load Balancing Method	<p>The load balancing method is used to select a pool in this WideIP. The default is round-robin. The methods are:</p> <ul style="list-style-type: none"> • 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

Field	Description										
	<p>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.</p> <ul style="list-style-type: none"> • 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	<p>The current state of the pool members. The states are:</p> <ul style="list-style-type: none"> • 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	<p>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.</p> <div data-bbox="358 1356 1360 1528" style="border: 1px solid black; padding: 5px;"> <p>Server Details Table ↗</p> <div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 5px;"> <input type="text" value="Search..."/> </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30px;"><input type="checkbox"/></th> <th style="width: 20%;">Server IP Address</th> <th style="width: 15%;">Server Port</th> <th style="width: 25%;">Server State</th> <th style="width: 10%;">Ratio</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/></td> <td>12.1.2.1.1</td> <td>80</td> <td>user-enabled</td> <td></td> </tr> </tbody> </table> </div>	<input type="checkbox"/>	Server IP Address	Server Port	Server State	Ratio	<input type="checkbox"/>	12.1.2.1.1	80	user-enabled	
<input type="checkbox"/>	Server IP Address	Server Port	Server State	Ratio							
<input type="checkbox"/>	12.1.2.1.1	80	user-enabled								
Monitor / Health Check Type	<p>Select the health monitors that are available to add for the pool:</p> <ul style="list-style-type: none"> • HTTP • TCP 										

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.

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

^ Snat Pool Details

Snat Choice AutoMap SNAT

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

Field	Description
Snat Choice	<p>Select the SNAT choice for any connections using this pool. The options are:</p> <ul style="list-style-type: none"> • 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: <div style="border: 1px solid black; padding: 5px; width: fit-content;"> <p>* Snat Pool <input type="text" value="Select"/> ▼</p> </div>

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

^ Persistence Details

Persistence None Create New Existing

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

Field	Description
Persistence	<p>This option allows you to use a pre-configured object that automatically enables persistence when you assign the profile to a virtual server.</p> <ul style="list-style-type: none"> • None • Create New - create a new persistence by providing persistence details: <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 10px;"> <p>* Persistence Type <input type="text" value="Select"/></p> </div> <ul style="list-style-type: none"> • Existing - select the existing persistence details: <div style="border: 1px solid #ccc; padding: 5px;"> <p>* Persistence Type <input type="text" value="Select"/></p> <p>* Select Persistence <input type="text" value="Select"/></p> </div>

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.

^ UnReserve IP

* Info

1. In-case of cancelling the request, please click on 'Un-reserve IP', only then IP which are reserved will be freed.

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:

The screenshot shows the 'Request View' for 'Create F5 LTM VIP with DNS :: 1987'. The left sidebar shows a progress indicator with steps: User Inputs, Payload Generator, Create LTM Master VIP, Create A Record, and Review (current). The main area has tabs for Implementation, Postvalidation, and Rollback. The Implementation tab is selected, showing a terminal window with the following commands:

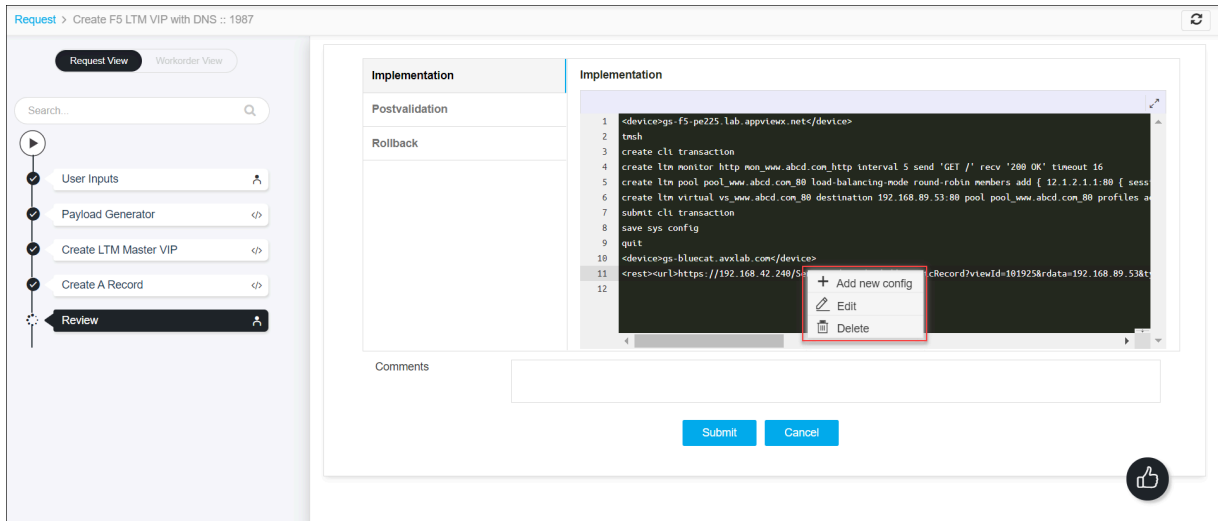
```

1 <device>gs-f5-pe225-lab-appviewx-net</device>
2 tsh
3 create cli transaction
4 create ltm monitor http_mon_www.abcd.com_http interval 5 send 'GET /' recv '200 OK' timeout 16
5 create ltm pool pool_www.abcd.com_80 load-balancing-mode round-robin members add { 12.1.2.1:80 { sess
6 create ltm virtual vs_www.abcd.com_80 destination 192.168.89.53:80 pool pool_www.abcd.com_80 profiles a
7 submit cli transaction
8 save sys config
9 quit
10 <device>gs-bluecat-avxlab.com</device>
11 <rest><url>https://192.168.42.248/Services/REST/v1/addGenericRecord?viewId=101925&rdata=192.168.89.53&t
12

```

Below the terminal is a 'Comments' field and 'Submit' and 'Cancel' buttons.

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.

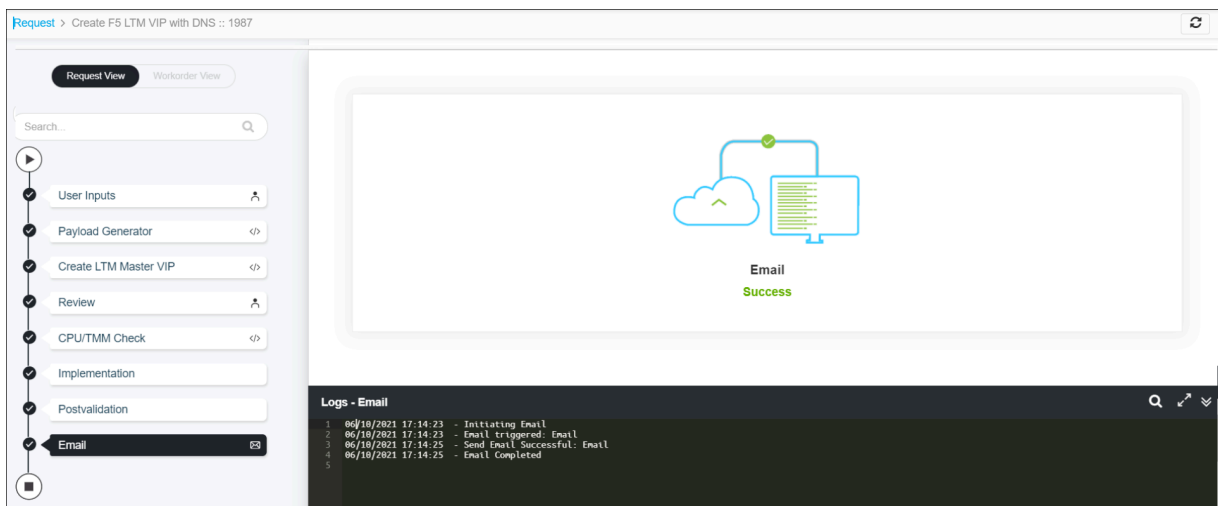


Note: To stop running the workflow creation, click **Cancel**.

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.






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.

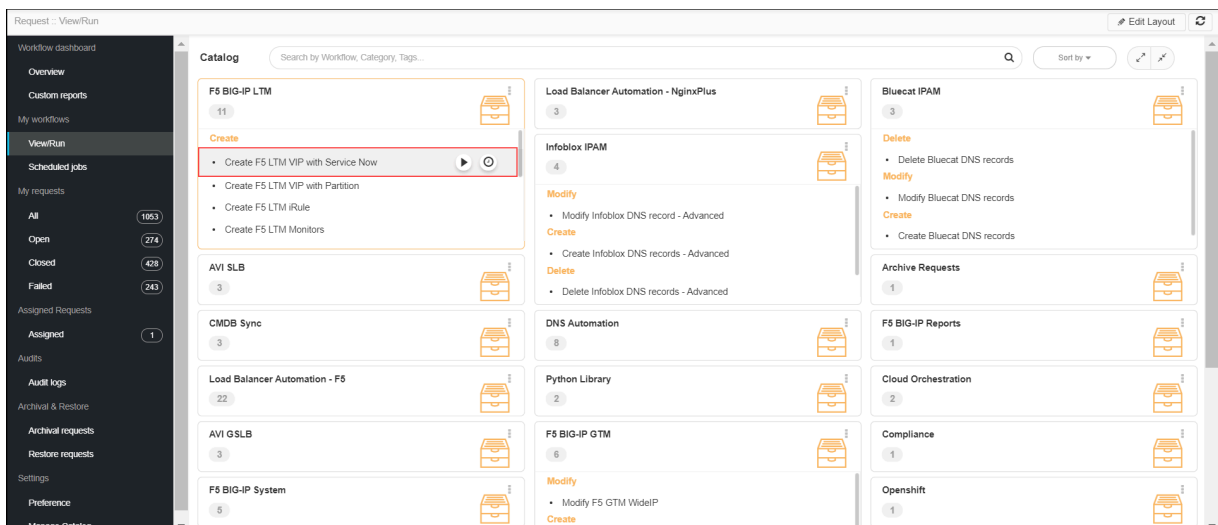
To run this workflow,

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

The Workflow Catalog page appears.

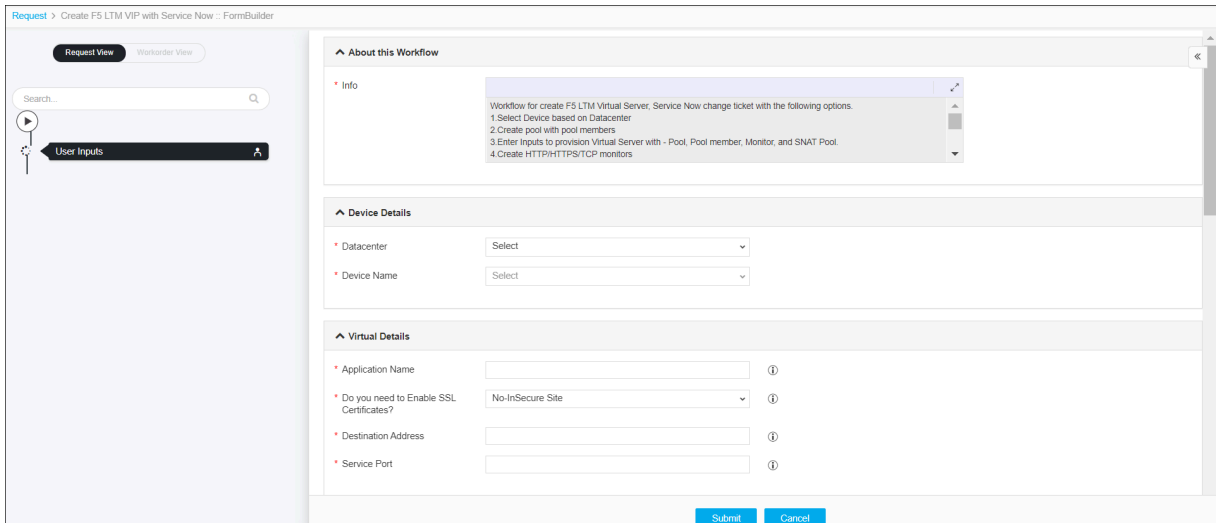
2. In the Workflow Catalog page, hover over the **Create F5 LTM VIP with Service Now** workflow.

The Run and Schedule buttons are shown.

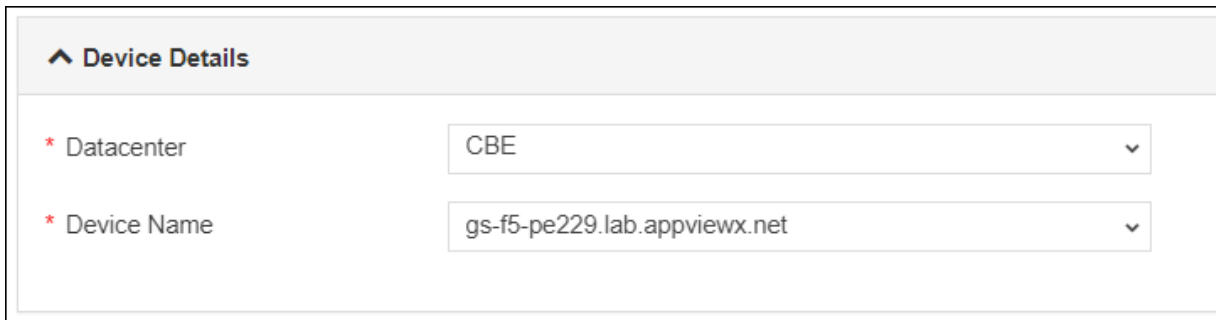


3. Click the Run  button.

The Form Input page opens:



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.

Virtual Details

* Application Name ⓘ

* Do you need to Enable SSL Certificates? ⓘ

* Destination Address ⓘ

* Service Port ⓘ

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?	<p>Select any of the following options to enable SSL certificates. The default option is No-InSecure Site.</p> <ul style="list-style-type: none"> • No-InSecure Site • Yes - Only the servers will have SSL certificates <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p>* Enable HTTP to HTTPs redirection? <input checked="" type="radio"/> No <input type="radio"/> Yes ⓘ</p> </div> <ul style="list-style-type: none"> • 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.

Pool Details

Load balancing method: round-robin

* Address: 59.6.33.33

* Service Port: 2345

State: user-enabled user-disabled


Pool Members

Search...

<input type="checkbox"/>	Address	Service Port	State	Ratio
No records found				

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

Field	Description
Load Balancing Method	<p>The load balancing method used to select a pool in this WideIP. The default is round-robin. The methods are:</p> <ul style="list-style-type: none"> • 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	<p>The current state of the pool members. The states are:</p> <ul style="list-style-type: none"> • 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.

Field	Description										
Pool Members	<p>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.</p> <div style="border: 1px solid #ccc; padding: 5px;"> <p>Pool Members</p> <div style="display: flex; align-items: center;"> <input type="text" value="Search..."/> </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;"></th> <th style="width: 35%;">Address</th> <th style="width: 15%;">Service Port</th> <th style="width: 20%;">State</th> <th style="width: 25%;">Ratio</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/></td> <td>59.6.33.33</td> <td>2345</td> <td>user-enabled</td> <td></td> </tr> </tbody> </table> </div>		Address	Service Port	State	Ratio	<input type="checkbox"/>	59.6.33.33	2345	user-enabled	
	Address	Service Port	State	Ratio							
<input type="checkbox"/>	59.6.33.33	2345	user-enabled								

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

Monitor Details

Monitor / Health Check Type HTTP TCP (i)

Request Method and URI (i)

Expected Response (i)

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

Field	Description
Monitor / Health Check Type	<p>Select the health monitors that are available to add for the pool:</p> <ul style="list-style-type: none"> • HTTP • TCP
Request Method and URI	<p>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.</p>
Expected Response	<p>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.</p>

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

^ **Snat Pool Details**

Snat Choice AutoMap SNAT

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

Field	Description
Snat Choice	<p>Select the SNAT choice for any connections using this pool. The options are:</p> <ul style="list-style-type: none"> 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: <div style="border: 1px solid black; padding: 5px; width: fit-content;"> * Snat Pool <input type="text" value="Select"/> </div>

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

^ **Persistence Details**

Persistence None Create New Existing

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 assign the profile to a virtual server.

Field	Description
	<ul style="list-style-type: none"> • None • Create New - create a new persistence by providing persistence details: <div style="border: 1px solid #ccc; padding: 5px; margin: 5px 0;"> ^ Persistence Details Persistence <input checked="" type="radio"/> None <input type="radio"/> Create New <input type="radio"/> Existing </div> • Existing - select the existing persistence details: <div style="border: 1px solid #ccc; padding: 5px; margin: 5px 0;"> * Persistence Type <input type="text" value="Select"/> * Select Persistence <input type="text" value="Select"/> </div>

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

^ **Change Management**

* Do you want to integrate ServiceNow Ticket? No Yes

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 the following details: <div style="margin-top: 10px;"> Timezone <input type="text" value="Select"/> </div> <div style="margin-top: 5px;"> * Start Time <input type="text"/> </div> <div style="margin-top: 5px;"> * End Time <input type="text"/> </div> <ul style="list-style-type: none"> 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:

The screenshot shows the 'Review' stage of the configuration process. The 'Implementation' tab is selected, displaying a terminal window with the following commands:

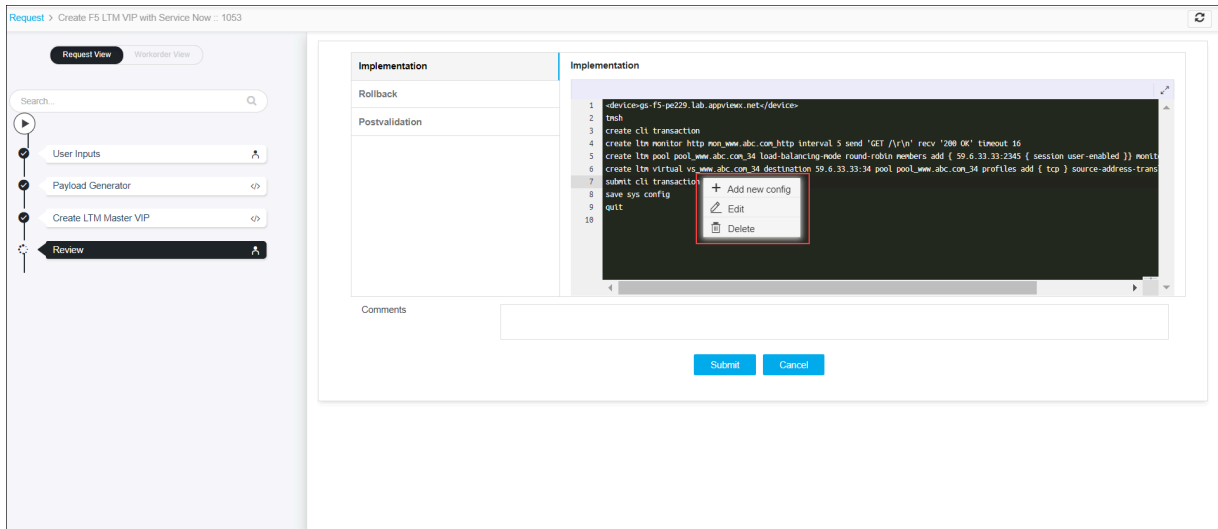
```

1 _devices: f5-pe229-lab-appview-net-/device-
2 bash
3 create cll transaction
4 create ltm monitor http_mon_www_abc.com_http interval 5 send 'GET /v1/n' recv '200 OK' timeout 16
5 create ltm pool pool_www_abc.com_34 load-balancing-mode round-robin members add ( 59.6.33.33:2345 { session user-enabled }) monit
6 create ltm virtual vs_www_abc.com_34 destination 59.6.33.33:34 pool pool_www_abc.com_34 profiles add ( tcp ) source-address-trans
7 submit cll transaction
8 save sys config
9
10
11
12
13
14
15
16
17
18
19
20

```

Below the terminal window, there is a 'Comments' field and two buttons: 'Submit' and 'Cancel'.

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.

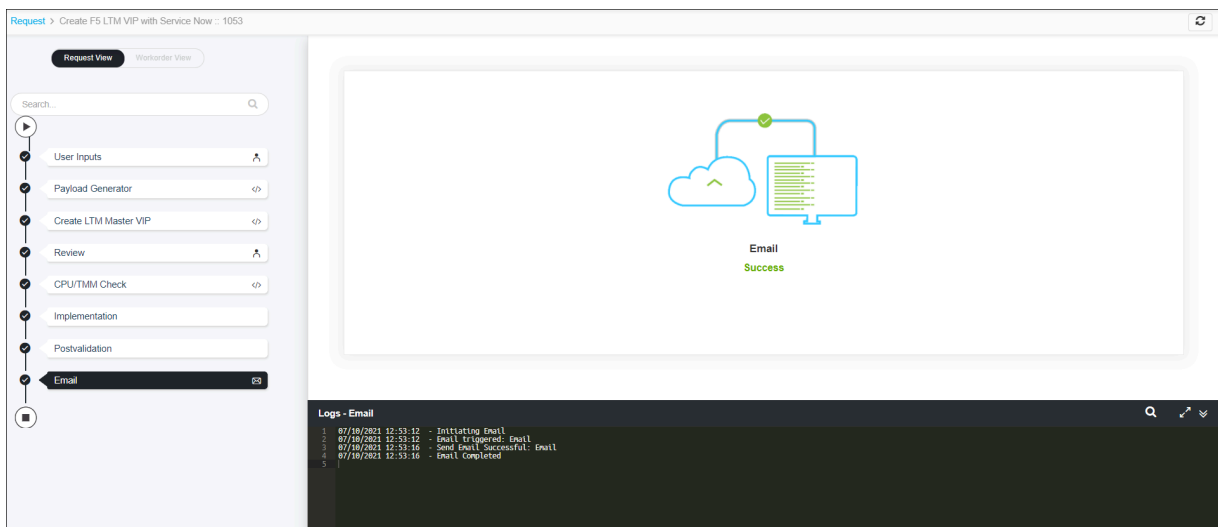


Note: To stop running the workflow creation, click **Cancel**.

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.




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.

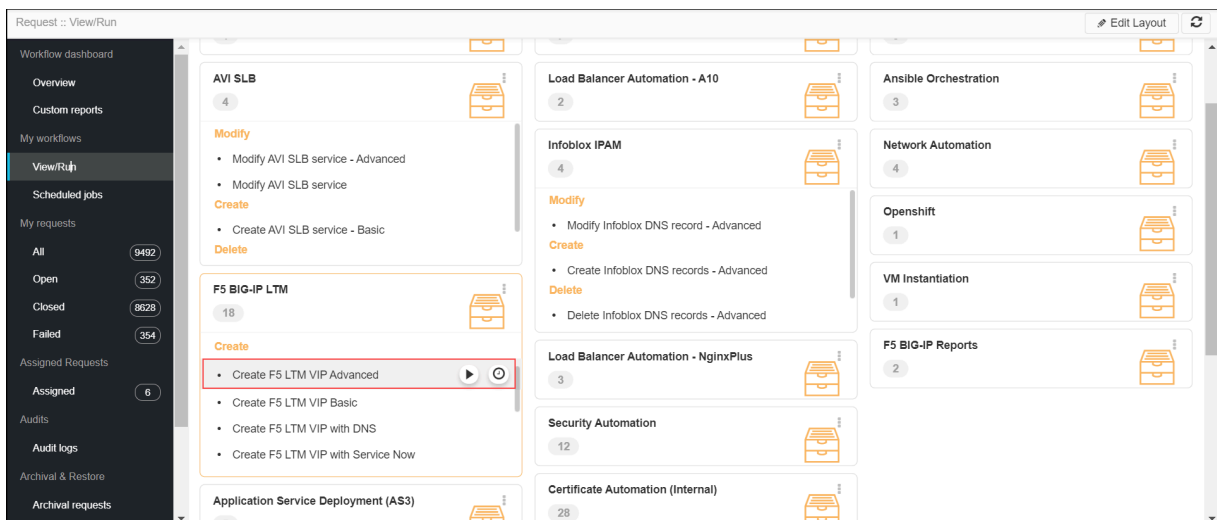
To run this workflow,


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

The Workflow Catalog page appears.

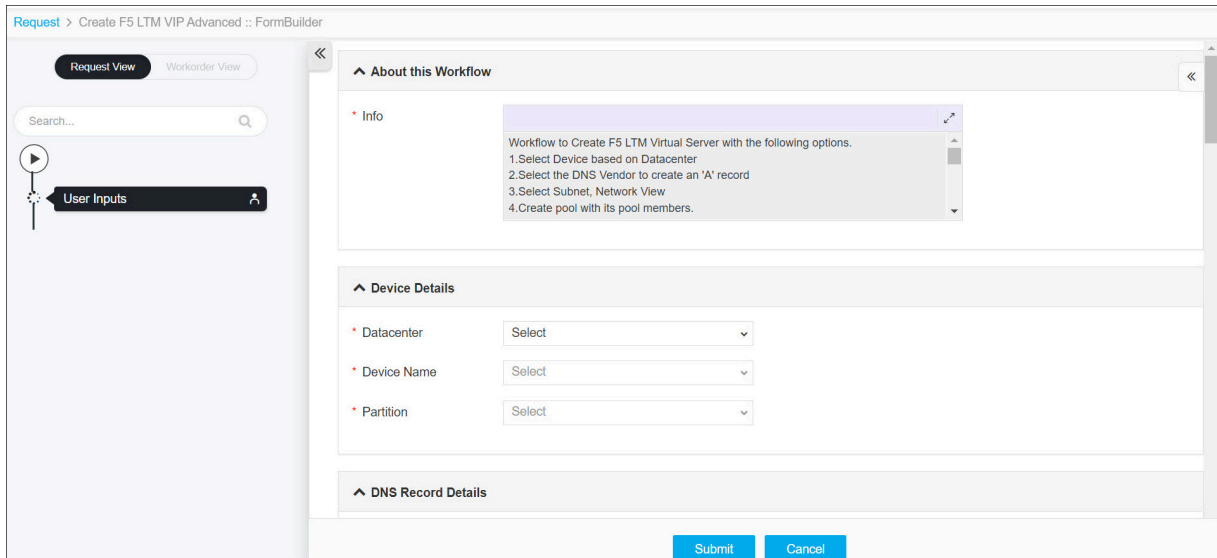
2. In the Workflow Catalog page, hover over the Create F5 LTM VIP – Advanced workflow.

The Run and Schedule buttons are shown.

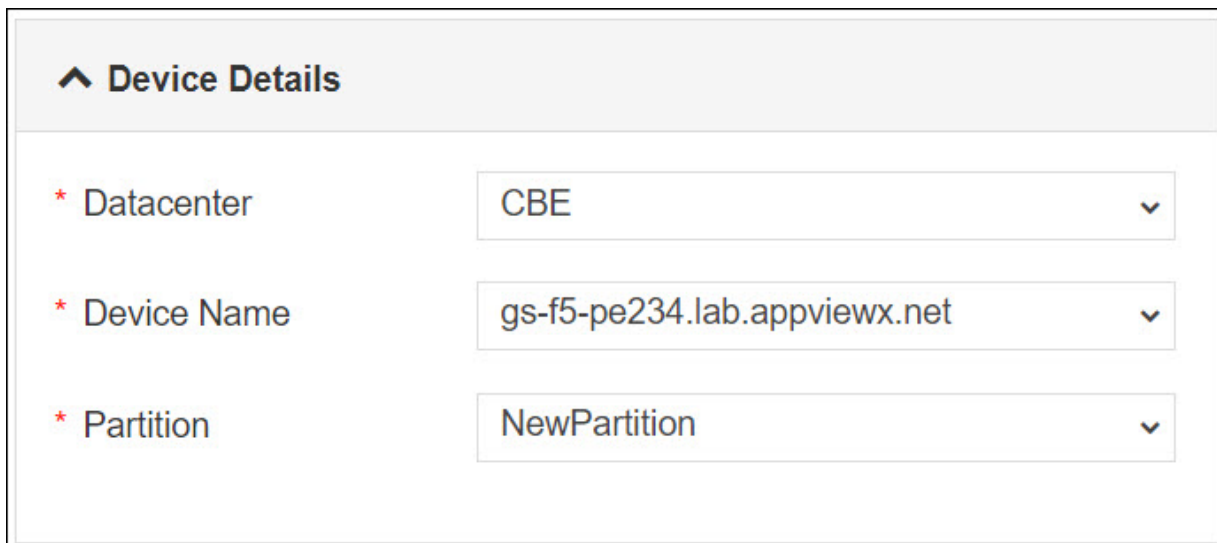


3. Click the Run  button.

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:

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 .

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 Record Details** section of Form Input.

^ DNS Record Details

Do you want to create A record ? No Yes

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 ?	<p>The default option is No. To create A record in DNS select Yes and provide the Vendor, DNS Device, Network View, and Subnet details:</p> <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <p>Do you want to create A record ? <input type="radio"/> No <input checked="" type="radio"/> Yes</p> <p>Vendor <input type="text" value="Infoblox"/></p> <p>DNS Device <input type="text" value="gs-infoblox-pe15.apvxlabs.com"/></p> <p>Network View <input type="text" value="Select"/></p> <p>Subnet <input type="text" value="Select"/></p> </div>

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

^ Virtual Details

* FQDN ⓘ

Virtual Server Type ▼

IP Choice Manual Next Available IP from IPAM

* Destination Address/Mask

* Service Port

Redirect VIP No Yes ⓘ

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.
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. <ul style="list-style-type: none"> • 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.

⤴ **Pool and Monitor Details**

Pool Create New Existing

Load Balancing Method round-robin ▾

* Pool Member IP 13.23.22.22

* Port 44

Pool Member status user-enabled ▾

Priority Group

+
✎
C
🗑

Pool Members ↗


🔍 Search...

<input type="checkbox"/>	Pool Member...	Port	Pool Member stat...	Ratio	Priority Gro
No records found					

Monitor No Create New Existing

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

Field	
Pool	<p>You can create a pool by providing the details for the pool or select an existing pool. Select the desired option:</p> <ul style="list-style-type: none"> • Create New - this is the default option. When you select this option, you need to provide a Load Balancing Method. • Existing - when you select this option, the Select Pool field appears to select the existing pool from the dropdown. <div style="border: 1px solid #ccc; padding: 5px; margin: 10px 0;"> <p>Pool <input type="radio"/> Create New <input checked="" type="radio"/> Existing</p> <p>Select Pool Select ▾</p> </div>
Load Balancing Method	<p>The load balancing method is used to select a pool in this WideIP. The default is a round-robin. The methods include:</p> <ul style="list-style-type: none"> • 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 connections.

Field													
	<ul style="list-style-type: none"> • least-connection-member - The system passes a new connection to the node that has the least number of connections. • ratio-member - The number of connections that each machine receives over time is proportionate to a ratio. 												
Address	Enter the IP address of the pool.												
Service Port	Enter a service port.												
State	<p>The current state of the pool members. The states are:</p> <ul style="list-style-type: none"> • user-enabled - when you select this option, the system sends traffic to this pool member regardless of the state of the member. • 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 groups.												
Pool Members	<p>Enter the IP address of the pool member. And then click the Add  button. Any number of pool members can be added to the pool.</p> <div style="border: 1px solid #ccc; padding: 5px; margin-top: 5px;"> <p>Pool Members ↗</p> <p>🔍 Search...</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th><input type="checkbox"/></th> <th>Pool Member...</th> <th>Port</th> <th>Pool Member stat...</th> <th>Ratio</th> <th>Priority Gro</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/></td> <td>13.23.22.22</td> <td>44</td> <td>user-enabled</td> <td></td> <td></td> </tr> </tbody> </table> <p style="text-align: center;">◀ ▶</p> </div>	<input type="checkbox"/>	Pool Member...	Port	Pool Member stat...	Ratio	Priority Gro	<input type="checkbox"/>	13.23.22.22	44	user-enabled		
<input type="checkbox"/>	Pool Member...	Port	Pool Member stat...	Ratio	Priority Gro								
<input type="checkbox"/>	13.23.22.22	44	user-enabled										
Monitor	<p>An association between a health monitor and an entire pool. Select the desired Monitor option:</p> <ul style="list-style-type: none"> • 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 Monitor. • 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.

^ Persistence Details

Persistence No Create New Existing

Fallback Persistence No Yes

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

Field	Description
Persistence	<p>This option allows you to use a pre-configured object that automatically enables persistence when you assign the profile to a virtual server.</p> <ul style="list-style-type: none"> • None • Create New - create a new persistence by providing persistence details: <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <p>* Persistence Type <input type="text" value="Select"/></p> </div> <ul style="list-style-type: none"> • Existing - select the existing persistence details: <div style="border: 1px solid black; padding: 5px;"> <p>* Persistence Type <input type="text" value="Select"/></p> <p>* Select Persistence <input type="text" value="Select"/></p> </div>
Fallback Persistence	<p>It is a secondary persistence record for each connection. Select the desired following option:</p> <ul style="list-style-type: none"> • No • Yes

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

^ Snat Pool Details

Snat Pool No Auto-Map Existing

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 are

Field	Description
	<ul style="list-style-type: none"> • Auto-Mapp -This option allows you to select a translation address from • SNAT - This option allows you to select a floating self IP as a translation selected, the Snat Pool field appears. Select the Snat pool from the dropdown <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> Select SNAT Pool Select </div>

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

^ Client SSL Details

Client SSL No Create New Existing

Client SSL Choice Import Certificate Select Cert and Key

* Cert Type pfx/p12 pem/crt/cer

* Upload Certificate

* Password

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

Field	Description
Client SSL	<p>Select the Client SSL options. The options are:</p> <ul style="list-style-type: none"> • No (default) • Create New - This option allows you to upload a new Client SSL certificate. <div style="border: 1px solid #ccc; padding: 5px; margin-top: 10px;"> <p>^ Client SSL Details</p> <p>Client SSL <input type="radio"/> No <input type="radio"/> Create New <input checked="" type="radio"/> Existing</p> <p>Select Client SSLs <input type="text" value="None Selected"/></p> </div>

Field	Description
	<ul style="list-style-type: none"> • Existing - This option allows you to select a Client SSL certificate from the drop-down option: <div style="border: 1px solid #ccc; padding: 5px; margin: 5px 0;"> <p>^ Server SSL Details</p> <p>Server SSL <input checked="" type="radio"/> No <input type="radio"/> Create New <input type="radio"/> Existing</p> </div>

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

^ Server SSL Details

Server SSL No Create New Existing

Server SSL Choice Import Certificate Select Cert and Key

* Cert Type pfx/p12 pem/crt/cer

* Upload Certificate

* Password

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: <ul style="list-style-type: none"> • No (default) • Create New -This option allows you to upload a new Server SSL certificate.

Field	Description
	<div style="border: 1px solid #ccc; padding: 10px;"> <p>^ Server SSL Details</p> <p>Server SSL <input type="radio"/> No <input checked="" type="radio"/> Create New <input type="radio"/> Existing</p> <p>Server SSL Choice <input checked="" type="radio"/> Import Certificate <input type="radio"/> Select Cert and Key</p> <p>* Cert Type <input checked="" type="radio"/> pfx/p12 <input type="radio"/> pem/crt/cer</p> <p>* Upload Certificate <input type="text"/> <input type="button" value="Upload"/> <input type="button" value="Download"/> <input type="button" value="Delete"/></p> <p>* Password <input type="text"/></p> </div> <p>• Existing- This option allows you to select a Server SSL certificate from the drop-down option:</p> <div style="border: 1px solid #ccc; padding: 10px; margin-top: 10px;"> <p>^ Server SSL Details</p> <p>Server SSL <input type="radio"/> No <input type="radio"/> Create New <input checked="" type="radio"/> Existing</p> <p>Select Server SSLs <input type="text" value="None Selected"/> ▼</p> </div>

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

^ IRule Details

IRule No Create New Existing

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: <ul style="list-style-type: none"> • No (default) • Create New -This option allows you to upload a new IRule file.

Field	Description
	<div style="border: 1px solid #ccc; padding: 10px;"> <div style="background-color: #f2f2f2; padding: 5px; margin-bottom: 10px;"> ^ Irule Details </div> <p>IRule <input type="radio"/> No <input checked="" type="radio"/> Create New <input type="radio"/> Existing</p> <p>Select IRule File to upload</p> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 10px;"> Enter text... </div> <div style="text-align: right;"> <input type="button" value="Upload"/> <input type="button" value="Info"/> </div> </div> <p>• Existing- This option allows you to select a IRule file from the drop-down option:</p> <div style="border: 1px solid #ccc; padding: 10px; margin-top: 10px;"> <div style="background-color: #f2f2f2; padding: 5px; margin-bottom: 10px;"> ^ Irule Details </div> <p>IRule <input type="radio"/> No <input type="radio"/> Create New <input checked="" type="radio"/> Existing</p> <p>Select Irule</p> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 10px;"> None Selected </div> </div>

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

^ Other profile Details

Protocol	<input type="text" value="Select"/>	▼	
Protocol Profile(Client)	<input type="text" value="Select"/>	▼	
Protocol Profile(Server)	<input type="text" value="Select"/>	▼	
One Connect Profile	<input type="text" value="Select"/>	▼	<input type="button" value="Info"/>
Http Profile	<input type="text" value="Select"/>	▼	<input type="button" value="Info"/>
FTP Profile	<input type="text" value="Select"/>	▼	<input type="button" value="Info"/>

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:

The screenshot shows the 'Review' stage of a configuration request. On the left, a vertical workflow indicates the current step. The main interface features three tabs: 'Implementation', 'Postvalidation', and 'Rollback'. The 'Implementation' tab is selected, showing a terminal window with the following configuration commands:

```

1 <device>gs-f5-pe225.lab.appviewx.net</device>
2 tns
3 create cli transaction
4 create ltm pool pool_www.fdqname.com_888 load-balancing-mode round-robin members add { 13.23.22.22:44 [
5 create ltm virtual vs_www.fdqname.com_888 destination 13.23.22.22:888 pool pool_www.fdqname.com_888 pr
6 submit cli transaction
7 save sys config
8 quit
9

```

Below the terminal is a 'Comments' field and two buttons: 'Submit' and 'Cancel'. A thumbs-up icon is visible in the bottom right corner.

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.

This screenshot is similar to the previous one, but it shows a context menu that appears when the right mouse button is clicked on the terminal output. The menu options are:

- + Add new config
- Edit
- Delete

The rest of the interface, including the workflow sidebar, tabs, and buttons, remains the same as in the previous screenshot.

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.

```

Logs - Email
1 03/30/2021 15:24:58 - Initiating Email
2 03/30/2021 15:24:58 - Email triggered: Email
3 03/30/2021 15:24:59 - Send Email Successful: Email
4 03/30/2021 15:24:59 - Email Completed
5

```




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

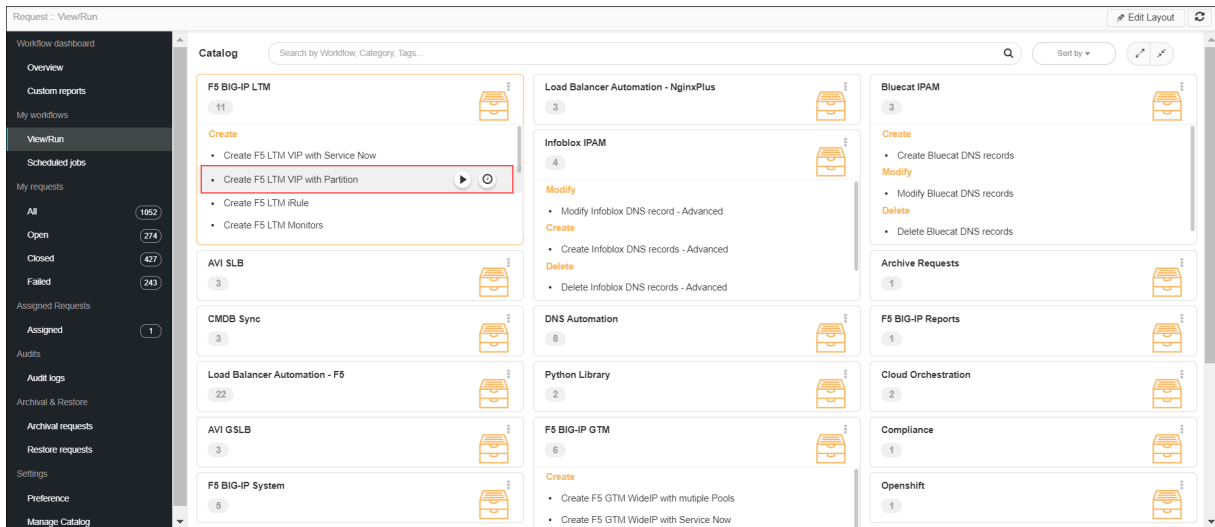
This workflow creates Extensive VIP with all basic objects in a F5 device on a selected Partition and integrates with DNS - Infoblox/Bluecat for A record creation.


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.



3. Click the Run  button.

The Form Input page opens:

The screenshot shows the 'FormBuilder' page for the workflow 'Create F5 LTM VIP with Partition'. The page has a top navigation bar with 'Request View' and 'Workorder View'. Below is a search bar and a 'User Inputs' section with a play button icon. The main content area is divided into two sections: 'About this Workflow' and 'Device Details'. The 'About this Workflow' section contains an 'Info' card with the following text: 'Workflow to create F5 LTM Virtual Server with partition support with the following options: 1. Select Device based on Datacenter 1. Select partition on which Virtual Server has to be created 2. Create pool with pool members'. The 'Device Details' section contains three dropdown menus: 'Datacenter', 'Device Name', and 'Partition'. At the bottom right are 'Submit' and 'Cancel' buttons.

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

^ Device Details

* Datacenter ▼

* Device Name ▼

* Partition ▼

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.

^ Virtual Details

* Application Name ⓘ

* Do you need to Enable SSL Certificates? ⓘ

* Destination Address ⓘ

* Service Port ⓘ

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?	<p>Select any of the following options to enable SSL certificates. The default option is No-InSecure Site.</p> <ul style="list-style-type: none"> • No-InSecure Site • Yes - Only the servers will have SSL certificates <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <p> Enable HTTP to HTTPs redirection? <input checked="" type="radio"/> No <input type="radio"/> Yes ⓘ</p> </div> <ul style="list-style-type: none"> • 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.

Pool Details

Load balancing method:

* Address: ⓘ

* Service Port: ⓘ


State: user-enabled user-disabled

Pool Members

	Address	Service Port	State	Ratio
<input type="checkbox"/>	No records found			

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

Field	Description
Load Balancing Method	<p>The load balancing method is used to select a pool in this WideIP. The default is a round-robin. The methods are:</p> <ul style="list-style-type: none"> • 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.

Field	Description										
State	<p>The current state of the pool members. The states are:</p> <ul style="list-style-type: none"> • 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	<p>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.</p> <div style="border: 1px solid #ccc; padding: 5px;"> <p>Pool Members ↗</p> <p>🔍 Search...</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><input type="checkbox"/></th> <th style="text-align: left;">Address</th> <th style="text-align: left;">Service Port</th> <th style="text-align: left;">State</th> <th style="text-align: left;">Ratio</th> </tr> </thead> <tbody> <tr> <td style="text-align: left;"><input type="checkbox"/></td> <td>59.6.33.33</td> <td>2345</td> <td>user-enabled</td> <td></td> </tr> </tbody> </table> </div>	<input type="checkbox"/>	Address	Service Port	State	Ratio	<input type="checkbox"/>	59.6.33.33	2345	user-enabled	
<input type="checkbox"/>	Address	Service Port	State	Ratio							
<input type="checkbox"/>	59.6.33.33	2345	user-enabled								

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

Monitor Details

Monitor / Health Check Type HTTP TCP ⓘ

Request Method and URI GET /\n ⓘ

Expected Response 200 OK ⓘ

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

Field	Description
Monitor / Health Check Type	<p>Select the health monitors that are available to add for the pool:</p> <ul style="list-style-type: none"> • HTTP • TCP
Request Method and URI	<p>The text string that the monitor sends to the target object. You must include \n at the end of a non-empty Send String. The default setting is GET /\n, which retrieves a default HTML file for a website. To retrieve a specific page from a website, specify a fully qualified path name</p>

Field	Description
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.

Monitor Details

Monitor / Health Check Type HTTP TCP ⓘ

Request Method and URI ⓘ

Expected Response ⓘ

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

Field	Description
Snat Choice	<p>Select the SNAT choice for any connections using this pool. The options are:</p> <ul style="list-style-type: none"> • 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 <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> * Snat Pool <input type="text" value="Select"/> </div>

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

^ Persistence Details

Persistence None Create New Existing

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

Field	Description
Persistence	<p>This option allows you to use a pre-configured object that automatically enables persistence when you as</p> <ul style="list-style-type: none"> • None • Create New - create a new persistence by providing persistence details: <div style="border: 1px solid #ccc; padding: 5px; margin: 5px 0;"> <p>* Persistence Type <input type="text" value="Select"/></p> </div> • Existing - select the existing persistence details: <div style="border: 1px solid #ccc; padding: 5px; margin: 5px 0;"> <p>* Persistence Type <input type="text" value="Select"/></p> <p>* Select Persistence <input type="text" value="Select"/></p> </div>

16. Click the **Submit** button.

The Confirmation popup opens.



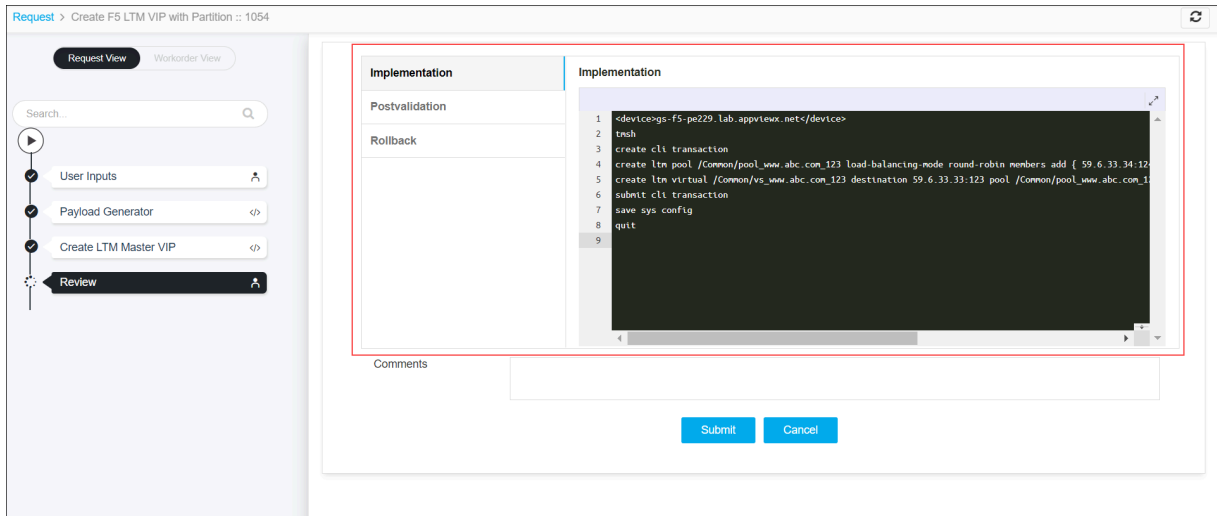
Note:

- 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.

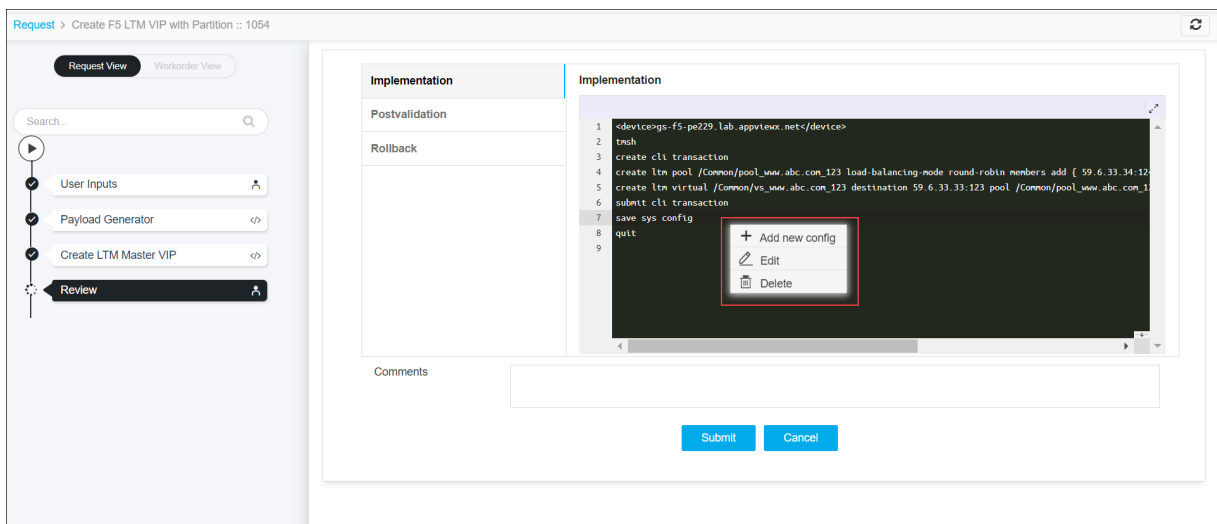
17. Click **Ok** to submit the form.

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

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.



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.

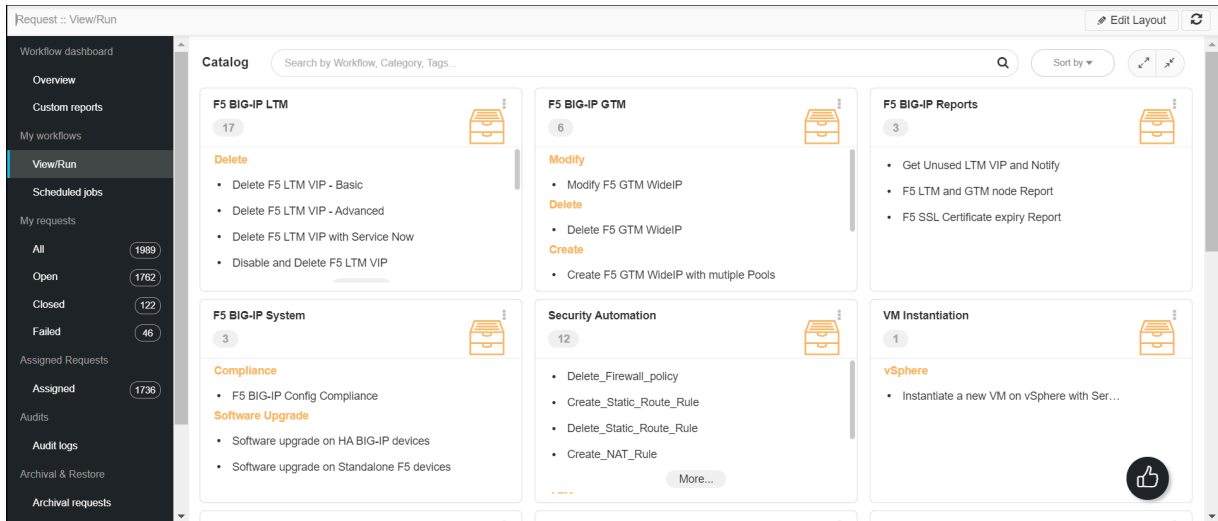
Delete F5 LTM VIP - Basic

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.

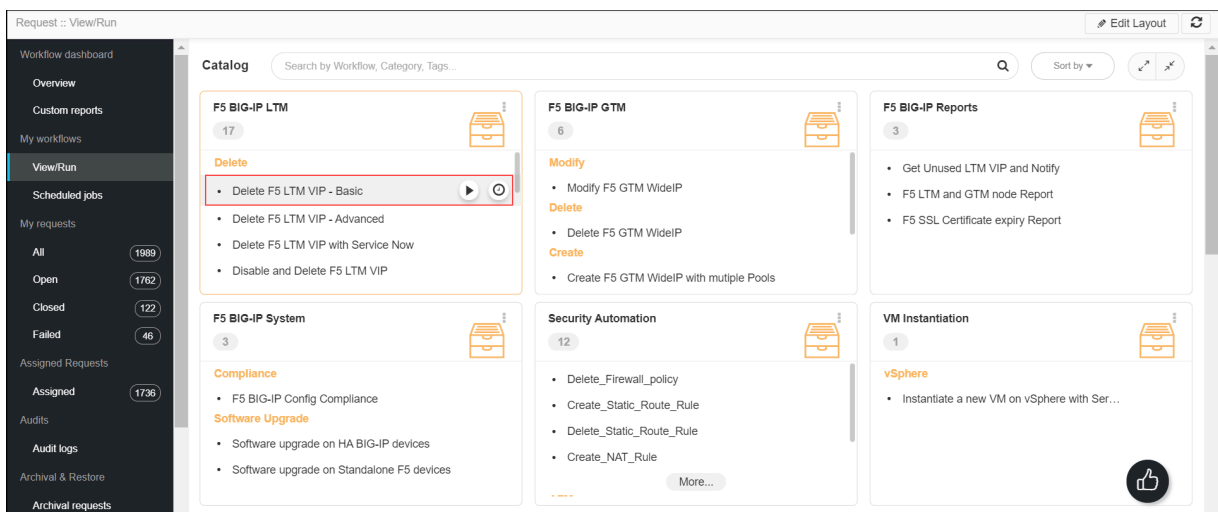
To run this workflow,


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

The Workflow Catalog page appears.



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



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

Request > Delete F5 LTM VIP - Basic :: FormBuilder

Request View Workorder View

Search...

User Inputs

^ VIP Details

* Virtual Destination IP

* Virtual Destination Port

Fetch Virtual Servers

* Select Virtual Server

Datacenter

* Device Name

Partition

Status

Submit Save Draft Cancel

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.

Request > Delete F5 LTM VIP - Basic :: FormBuilder

Request View Workorder View

Search...

User Inputs

^ VIP Details

* Virtual Destination IP 10.11.22.22

* Virtual Destination Port 8080

Fetch Virtual Servers

* Select Virtual Server gs-f5-pe225.lab.appviewx.net[vs_test123.ap...

Datacenter CBE

* Device Name gs-f5-pe225.lab.appviewx.net

Partition Common

Status ENABLED

Submit Save Draft Cancel

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.

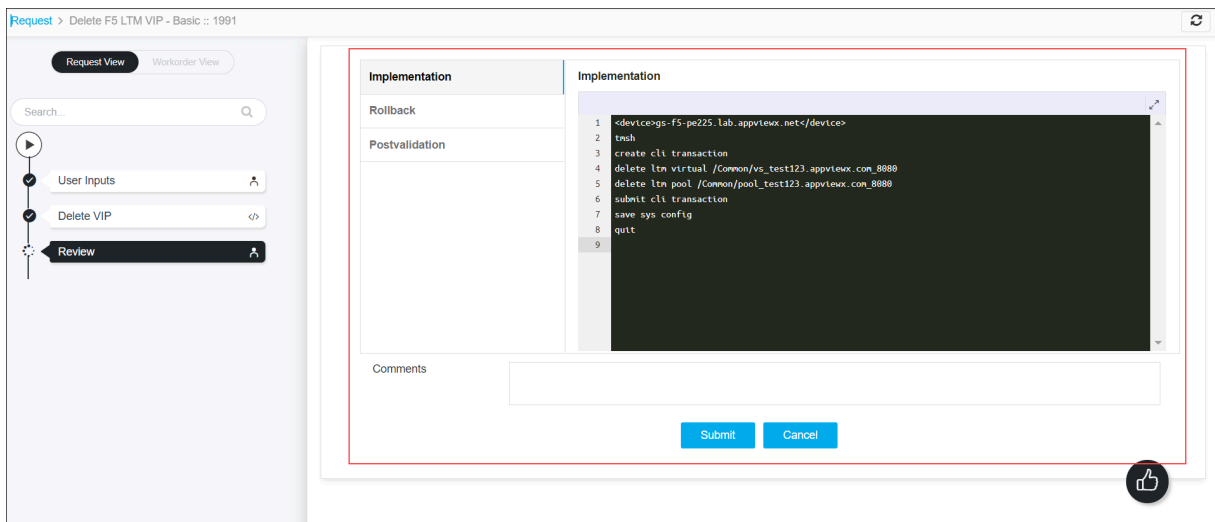
The validation starts automatically and reaches the **Review** stage.



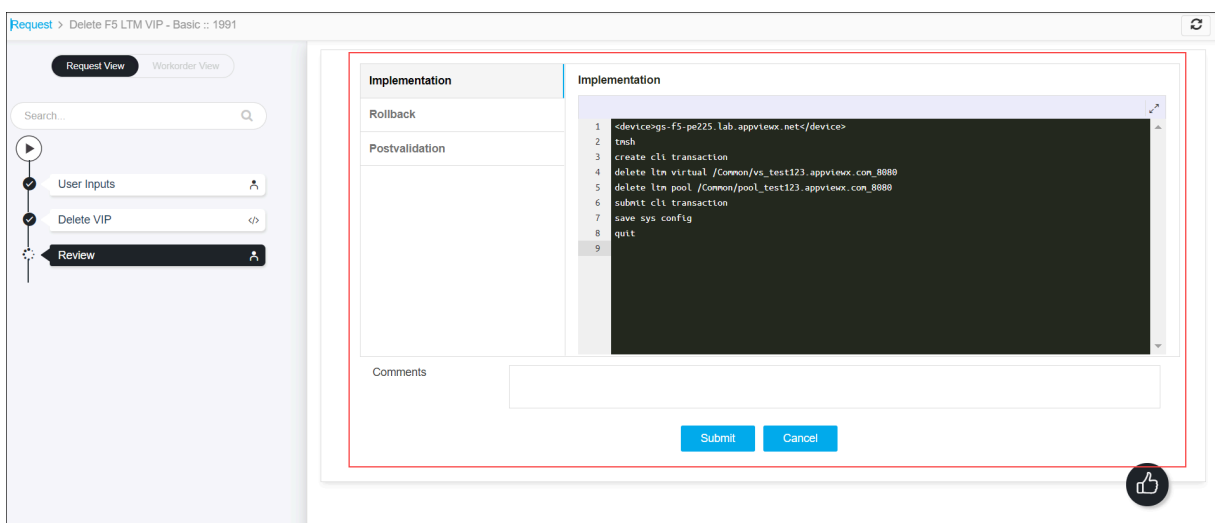
Note:

- 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.



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.

The screenshot displays the 'Request View' for a workflow titled 'Delete F5 LTM VIP - Basic :: 1991'. The left sidebar shows a sequence of stages: User Inputs, Delete VIP, Review, Prevalidation, Implementation, Postvalidation, and Email Notification. The 'Email Notification' stage is currently selected and highlighted. The main workspace shows a diagram of the workflow with a green checkmark and the text 'Email Notification Success'. Below the workspace, a 'Logs - Email Notification' panel shows the following log entries:

```

1 09/02/2021 12:13:58 - Initiating Email Notification
2 09/02/2021 12:13:58 - Email triggered: Email Notification
3 09/02/2021 12:13:59 - Send Email Successful: Email Notification
4 09/02/2021 12:13:59 - Email Notification Completed
5

```




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.

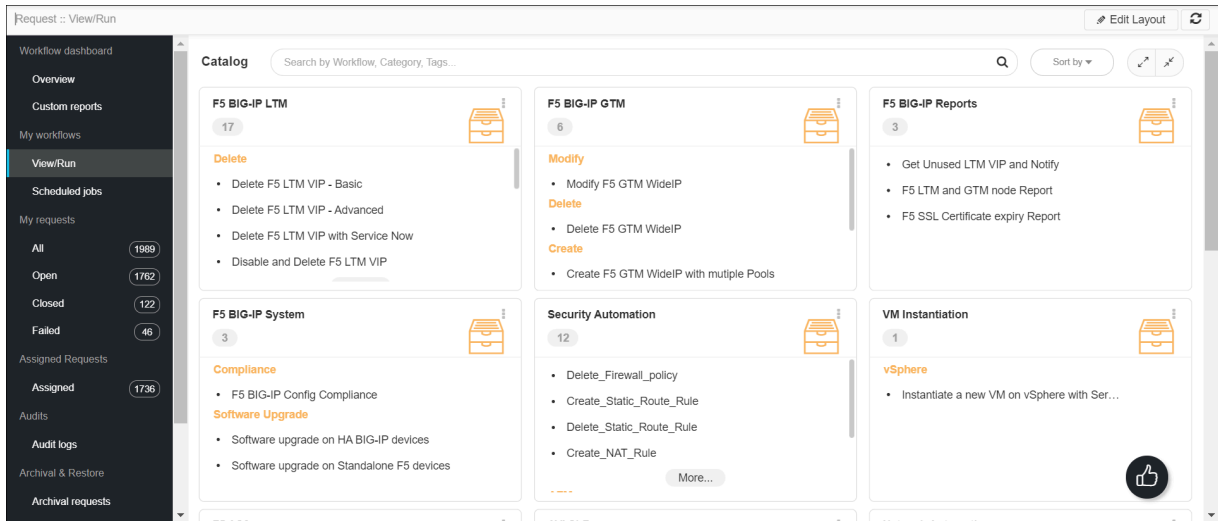
Delete F5 LTM VIP - Advanced

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

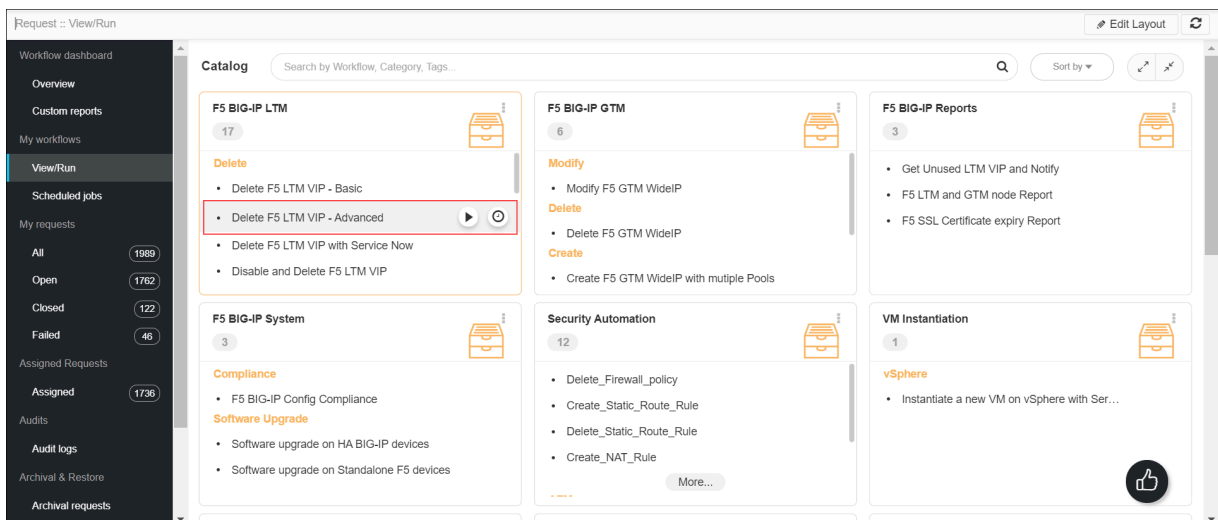
To run this workflow,


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

The Workflow Catalog page appears.



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



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

Request > Delete F5 LTM VIP Advanced :: FormBuilder

Request View Workorder View

Search...

User Inputs

^ About this Workflow

* Info

This is an advanced Workflow to Delete F5 LTM Virtual Server(s) and its associated services with the following options:

- 1.Fetch Virtual Servers based on Datacenter and Device from the Selected Partition.
- 2.Select one or more associated application services to be deleted
- 3.Optionally, select if the DNS records need to be deleted

^ VIP Details

* Datacenter

* Device Name

* Partition

* Select Virtual Server

Destination Address

Submit Save Draft Cancel

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.

Request > Delete F5 LTM VIP Advanced :: FormBuilder

Request View Workorder View

Search...

User Inputs

* Partition

* Select Virtual Server

Destination Address

Service Port

Status

* Services to be Deleted

Search

Select all

- pool
- monitor
- profile
- snat
- persist
- irule
- policy

^ DNS Details

* Do you want to delete the DNS record?

Submit Save Draft Cancel

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:



- 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.

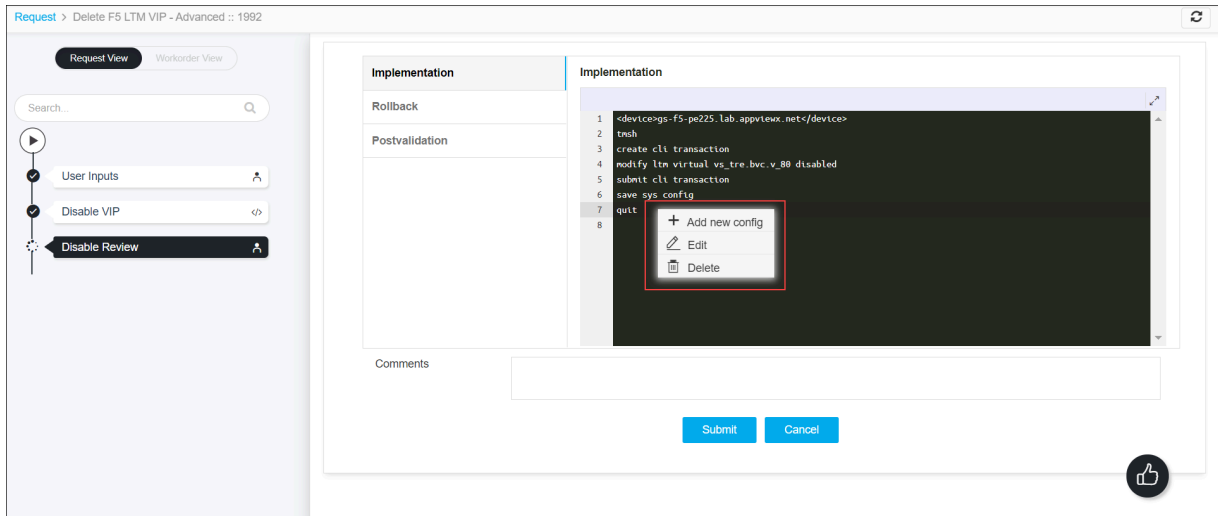


Note:

- 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.



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

The Confirmation popup opens.

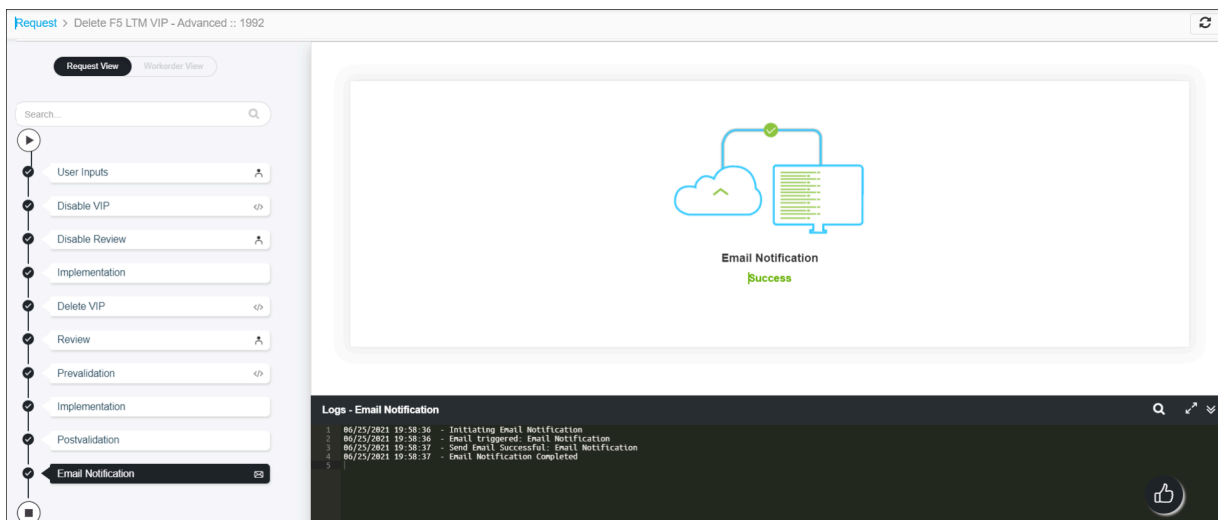


Note: To stop running the workflow creation, click **Cancel**.

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.

Disable Unused F5 LTM VIP

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

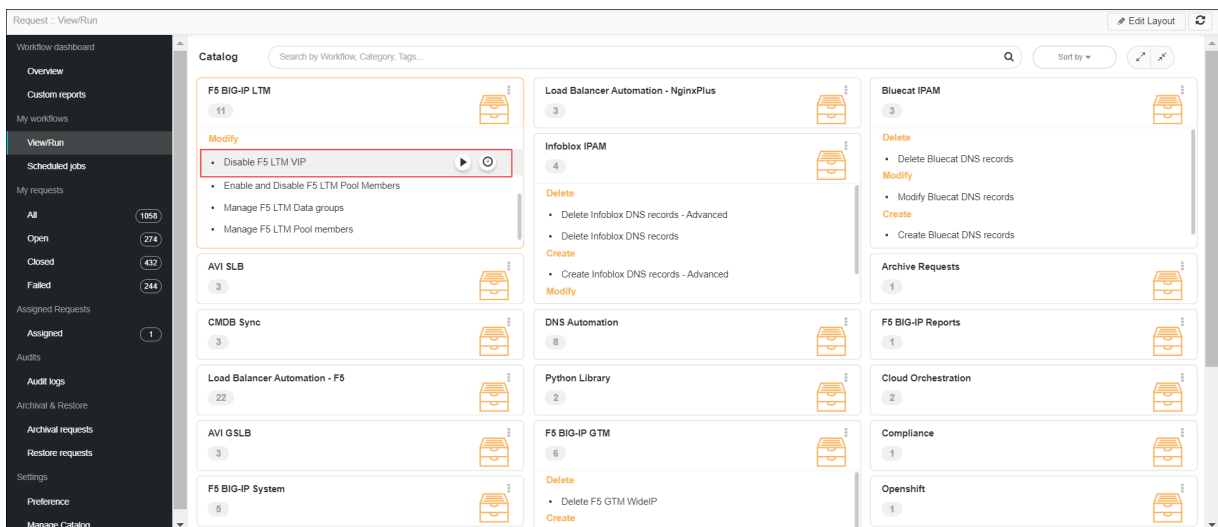
To run this workflow,


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:

Request > Disable F5 LTM VIP :: FormBuilder

Request View Workorder View

Search...

User Inputs

About this Workflow

Info

Workflow to fetch Unused F5 LTM Virtual servers and disable

1. Select device(s) and enter the number of days for which the virtual server is "Unused"
2. Fetch unused Virtual servers for the duration

Device Details

* Datacenter: Select

* Device Name: None Selected

* No of Days:

Submit Save Draft Cancel

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

Request > Disable F5 LTM VIP :: FormBuilder

Request View Workorder View

Search...

User Inputs

About this Workflow

Info

Workflow to fetch Unused F5 LTM Virtual servers and disable

1. Select device(s) and enter the number of days for which the virtual server is "Unused"
2. Fetch unused Virtual servers for the duration

Device Details

* Datacenter: CBE


* Device Name: gs-f5-pe229.lab.appviewx.net

* No of Days: 160

Submit Save Draft Cancel

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.

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.

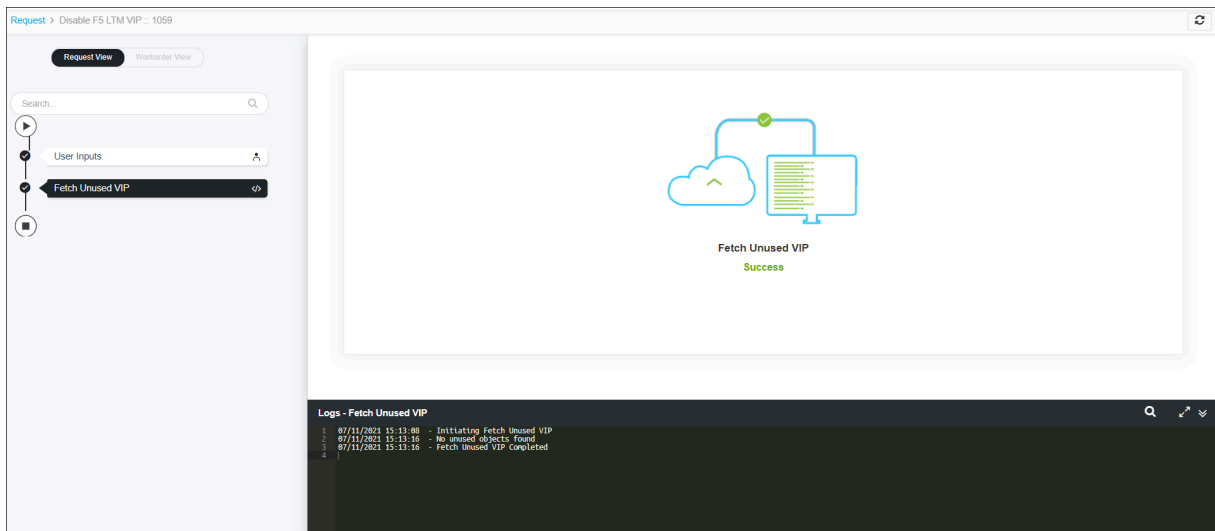
The Confirmation popup opens.



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.



The screenshot shows the 'Request' view for 'Disable F5 LTM VIP - 1059'. The workflow diagram on the left includes 'User Inputs' and 'Fetch Unused VIP'. The main content area displays a success message: 'Fetch Unused VIP Success'. The logs at the bottom show the following entries:

```

Logs - Fetch Unused VIP
07/11/2021 15:13:08 - Initiating Fetch Unused VIP
07/11/2021 15:13:16 - No unused objects found
07/11/2021 15:13:16 - Fetch Unused VIP 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.

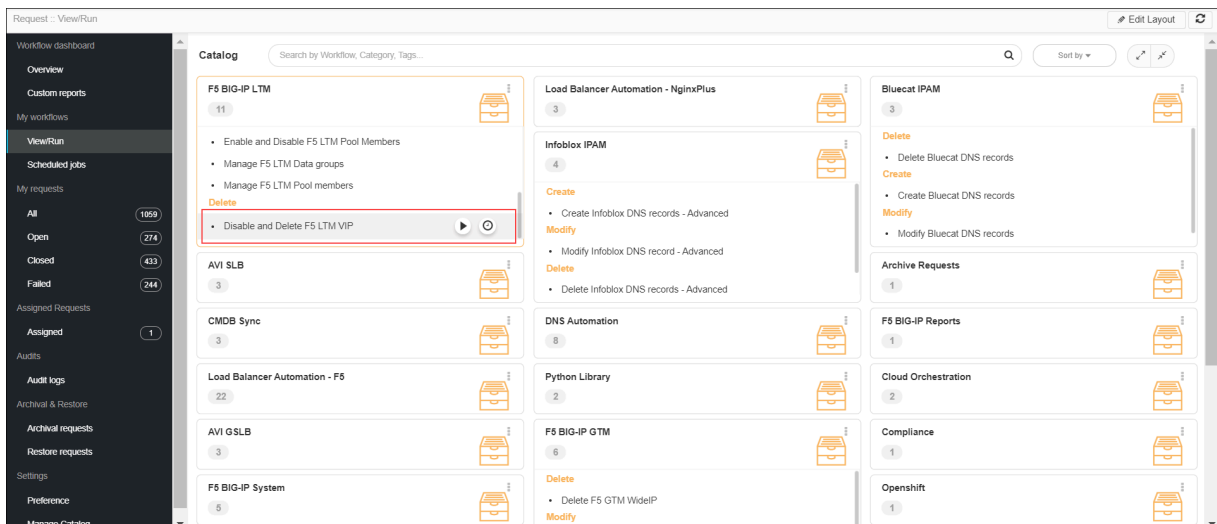
To run this workflow,


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:

The screenshot shows the 'Form Input' page for the 'Disable and Delete F5 LTM VIP' workflow. The page has a top navigation bar with 'Request View' and 'Workorder View' tabs. Below the navigation bar is a search bar and a 'User Inputs' section with a play button icon. The main content area is divided into two sections: 'Info' and 'Device Details'. The 'Info' section contains a text box with the following text: 'Workflow to fetch Unused F5 LTM Virtual servers and decommission' and a list of instructions: '1. Select device(s) and enter the number of days for which the virtual server is "Unused"', '2. Fetch unused Virtual servers for the duration'. The 'Device Details' section contains three fields: 'Datacenter' (a dropdown menu with 'Select' selected), 'Device Name' (a dropdown menu with 'None Selected' selected), and 'No of Days' (a text input field with an information icon). At the bottom of the page are three buttons: 'Submit', 'Save Draft', and 'Cancel'.

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. <div style="border: 1px solid #0070c0; border-radius: 10px; padding: 5px; background-color: #e6f2ff;">  Note: Selecting multiple devices is possible. </div>
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.


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

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

Status	Unused Virtual Servers	State	Device Name
OFFLINE	vs-vsa	ENABLED	gs-f5-pe229.lab.appviewx.net



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.

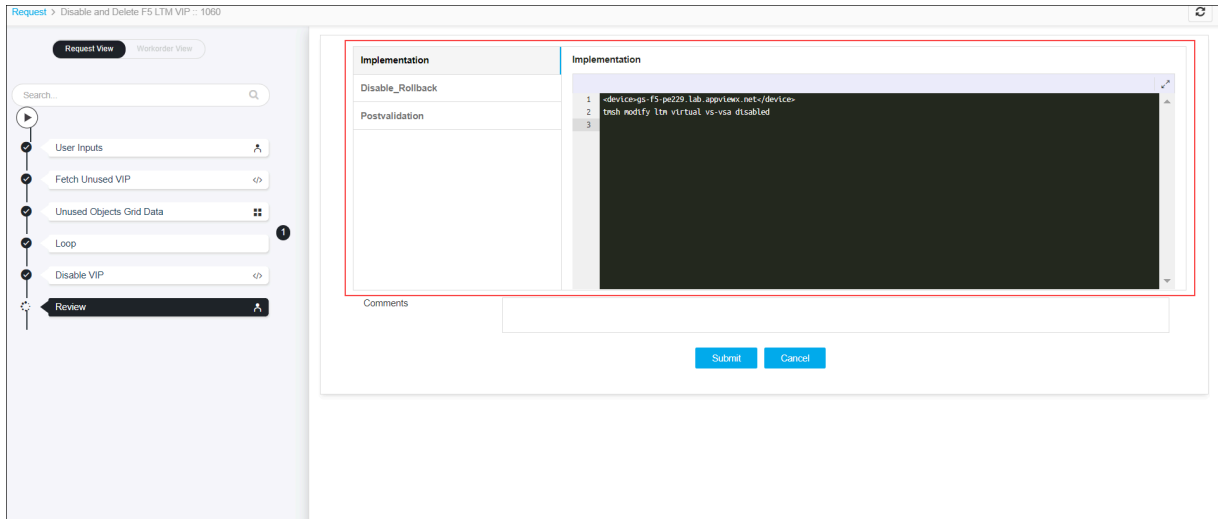
8. Click the **Submit** button.

The Confirmation popup opens.

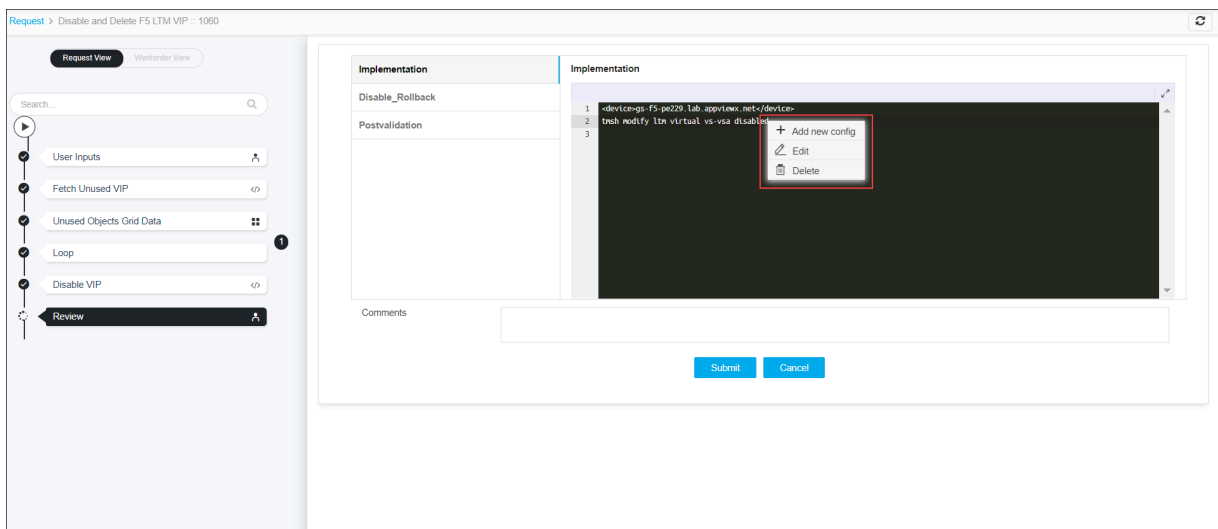
9. Click **Ok** to submit the form.

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

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



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.

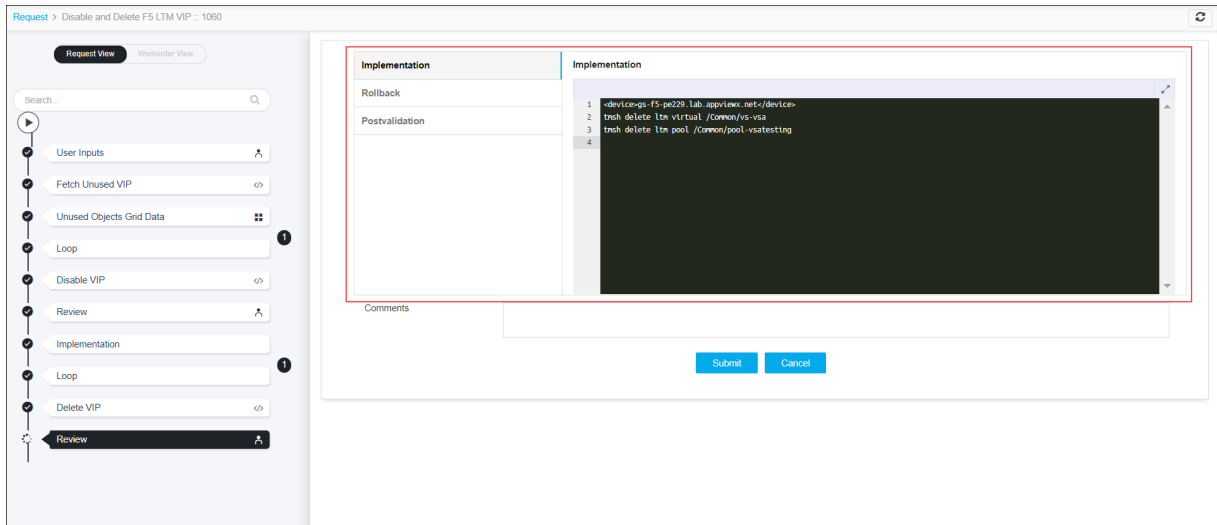


12. After the review, click the **Submit** button.

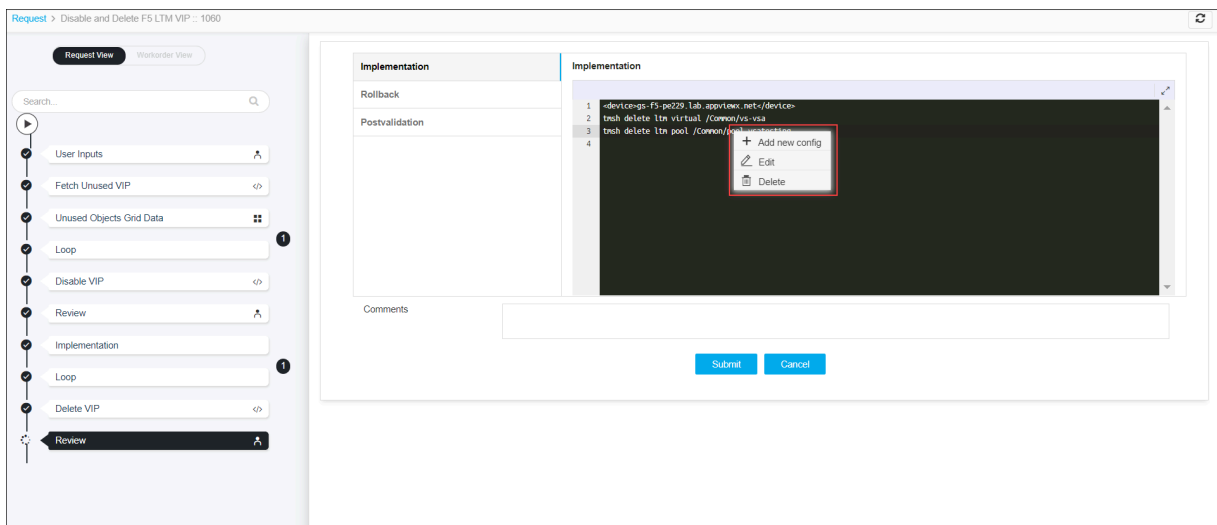
The implementation process starts and reaches the **Review** stage.

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

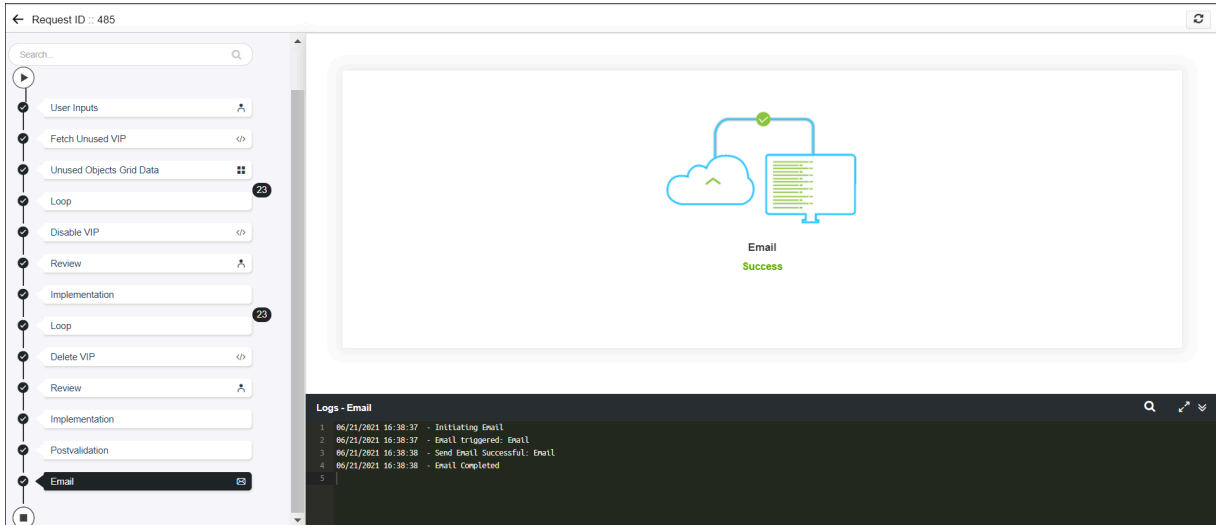
The implementation starts.



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.




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.

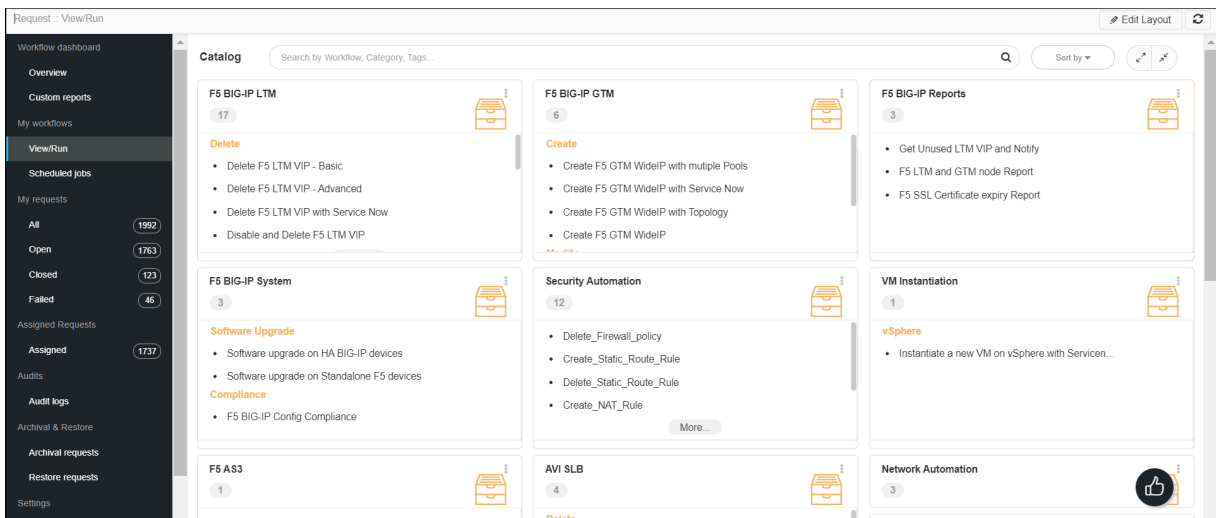
Get Unused LTM VIP and Delete

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

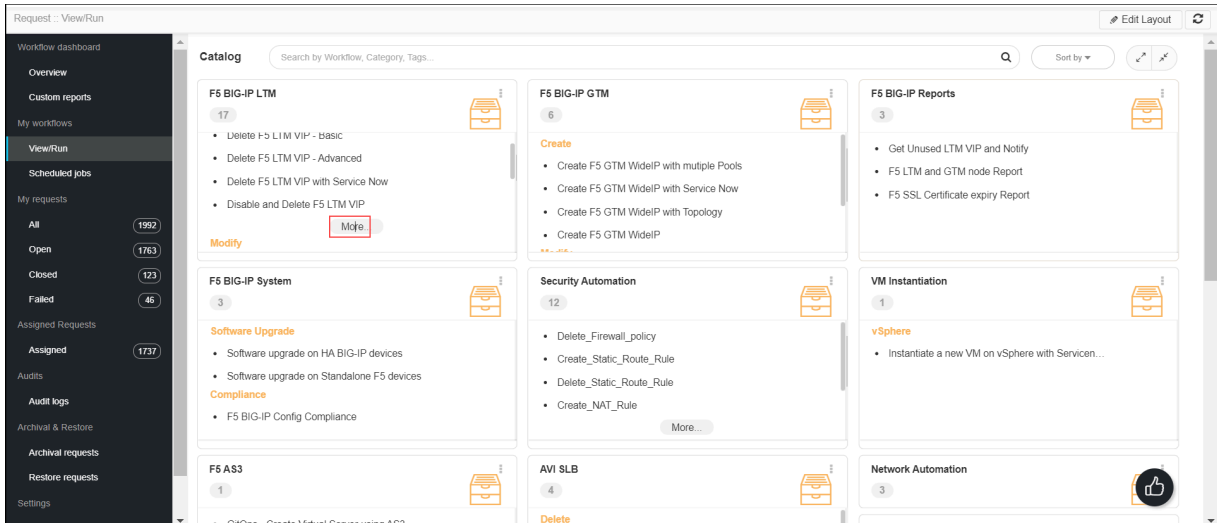
To run this workflow,

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

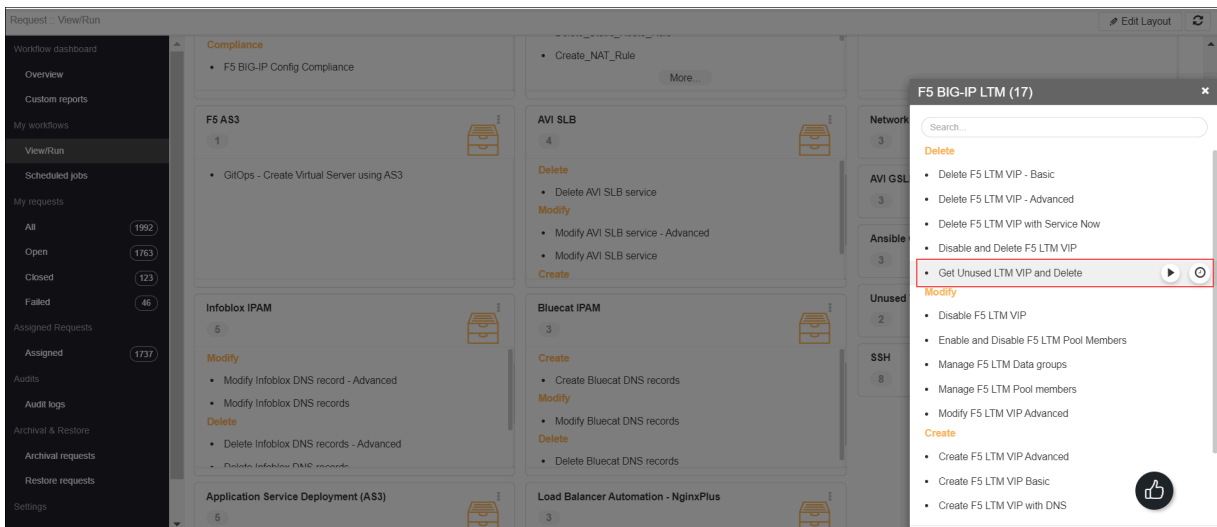
The Workflow Catalog page appears.




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:

Request > Get Unused LTM VIP and Delete :: FormBuilder

Request View Workorder View

Search...

User Inputs

Device Details

* Device Name None Selected

* No of Days

Submit Save Draft Cancel

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

Request > Get Unused LTM VIP and Delete :: FormBuilder

Request View Workorder View

Search...

User Inputs

Device Details

* Device Name gs-f5-pe225.lab.appviewx.net

* No of Days 90

Submit Save Draft Cancel

6. Click the **Submit** button.

The Confirmation popup opens.

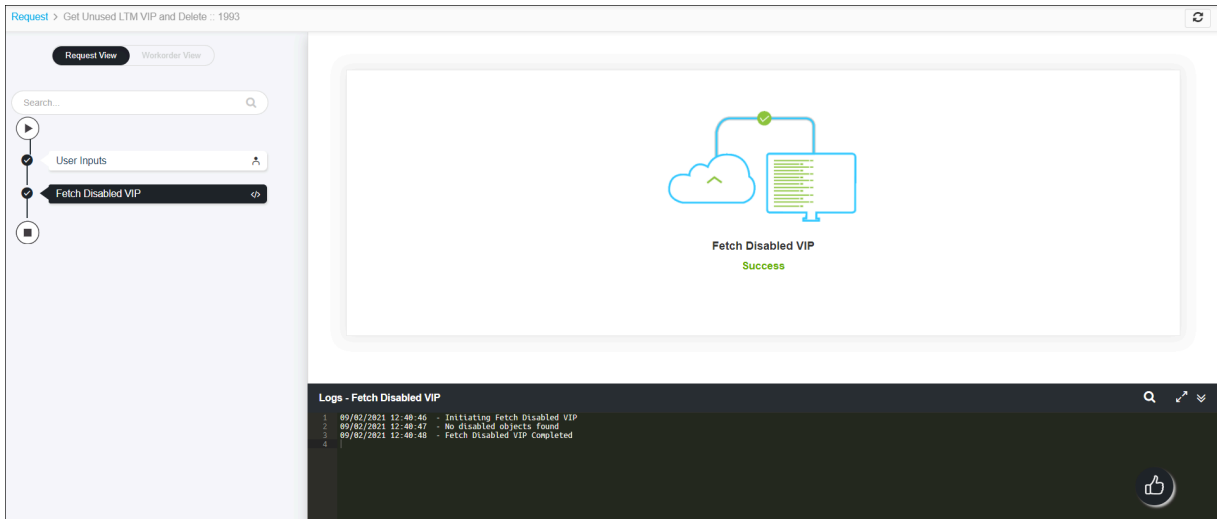


Note:

- 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 process is automatically.




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

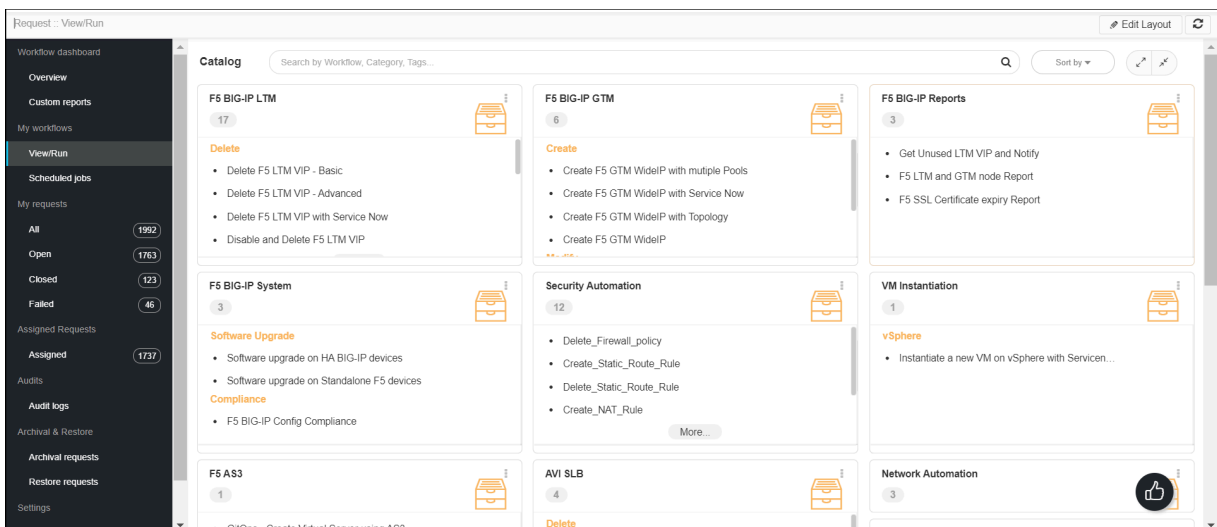
Get Unused LTM VIP and Notify

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

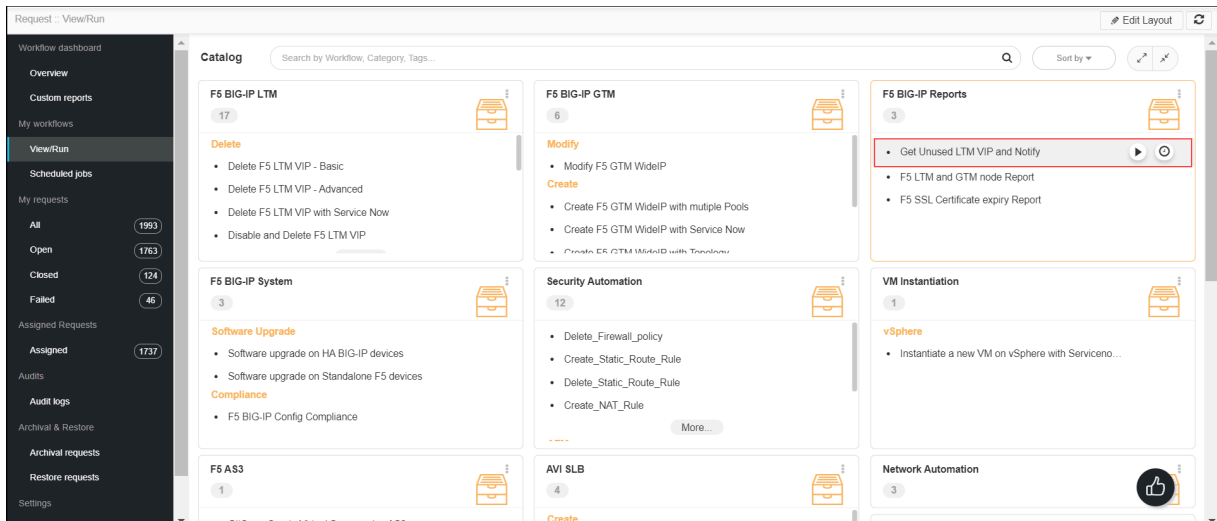
To run this workflow,


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

The Workflow Catalog page appears.

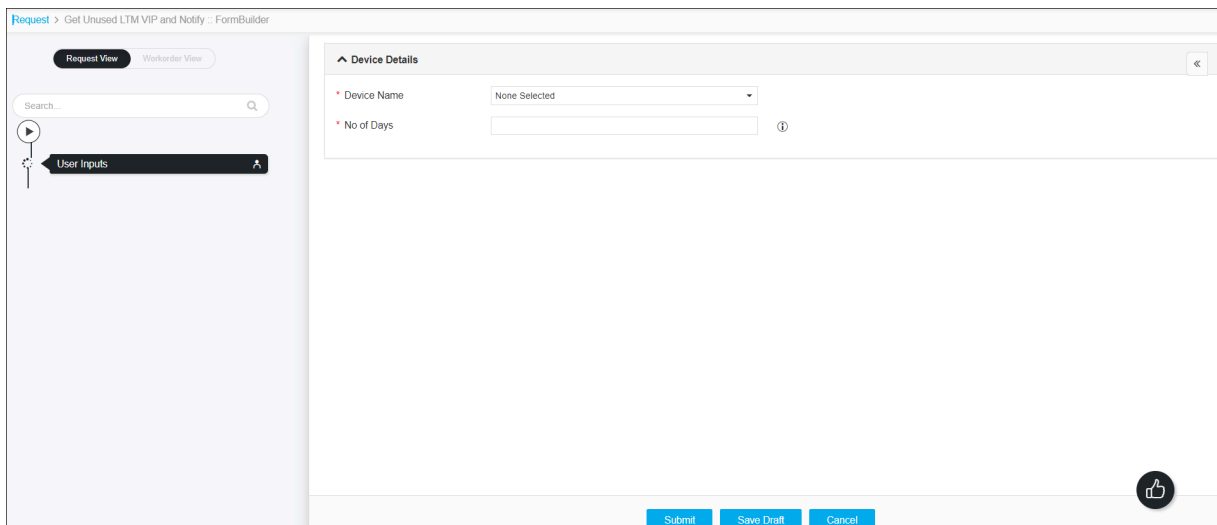


- In the Workflow Catalog page, hover over the Get Unused LTM VIP and Notify workflow. The Run and Schedule buttons showed.



- Click the Run  button.

The Form Input page opens:



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

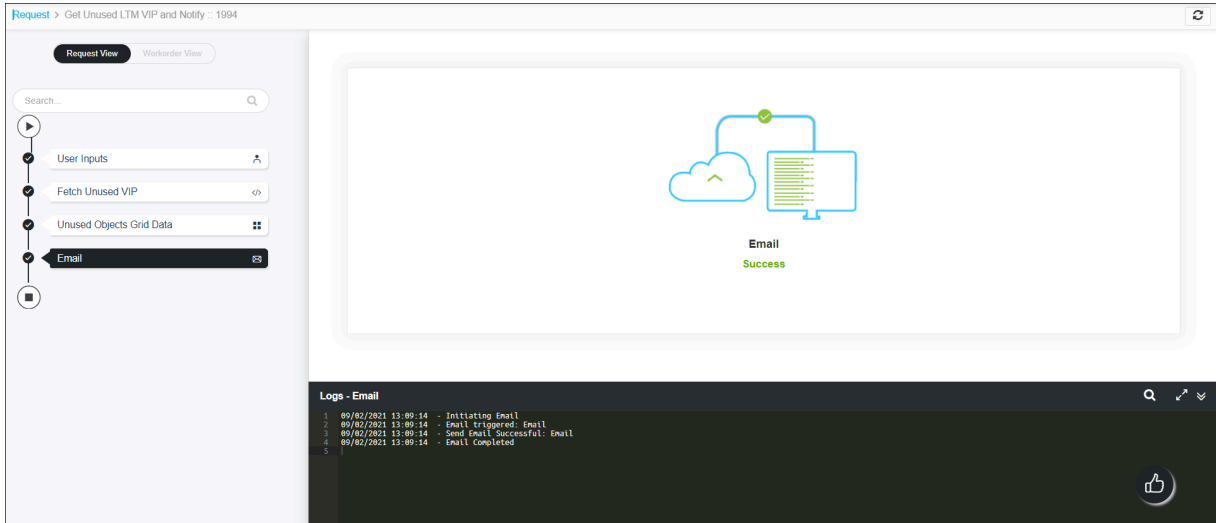
The screenshot shows the 'Request View' of a FormBuilder interface. The breadcrumb path is 'Request > Get Unused LTM VIP and Delete : FormBuilder'. The interface has two tabs: 'Request View' (active) and 'Workorder View'. A search bar is located at the top left. Below it is a 'User Inputs' section with a play button icon. The main area is titled 'Device Details' and contains two fields: 'Device Name' with a dropdown menu showing 'gs-f5-pe225.lab.appviewx.net' and 'No of Days' with a text input field containing '90'. At the bottom right, there is a thumbs-up icon. At the bottom center, there are three buttons: 'Submit', 'Save Draft', and 'Cancel'.

5. Click the **Submit** button.

6. The fetching process is automatically.

The screenshot shows the 'Request View' of a FormBuilder interface. The breadcrumb path is 'Request > Get Unused LTM VIP and Notify : FormBuilder'. The interface has two tabs: 'Request View' (active) and 'Workorder View'. A search bar is located at the top left. Below it is a 'User Inputs' section with a play button icon. The main area is titled 'Device Details' and contains two fields: 'Device Name' with a dropdown menu showing 'gs-f5-pe225.lab.appviewx.net' and 'No of Days' with a text input field containing '30'. At the bottom right, there is a thumbs-up icon. At the bottom center, there are three buttons: 'Submit', 'Save Draft', and 'Cancel'.


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



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.

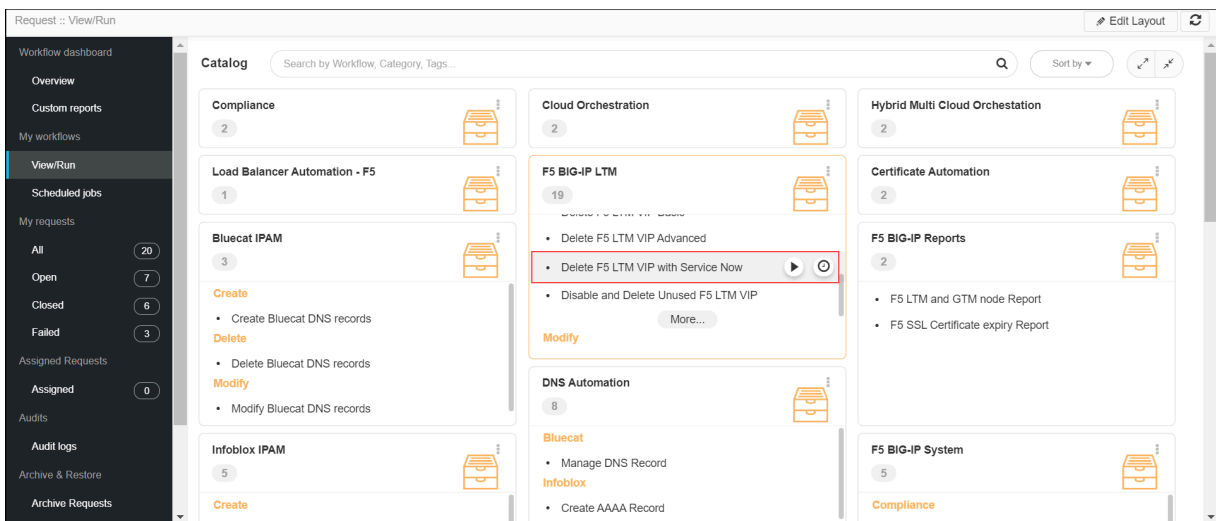
To run this workflow,


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

The Workflow Catalog page appears.

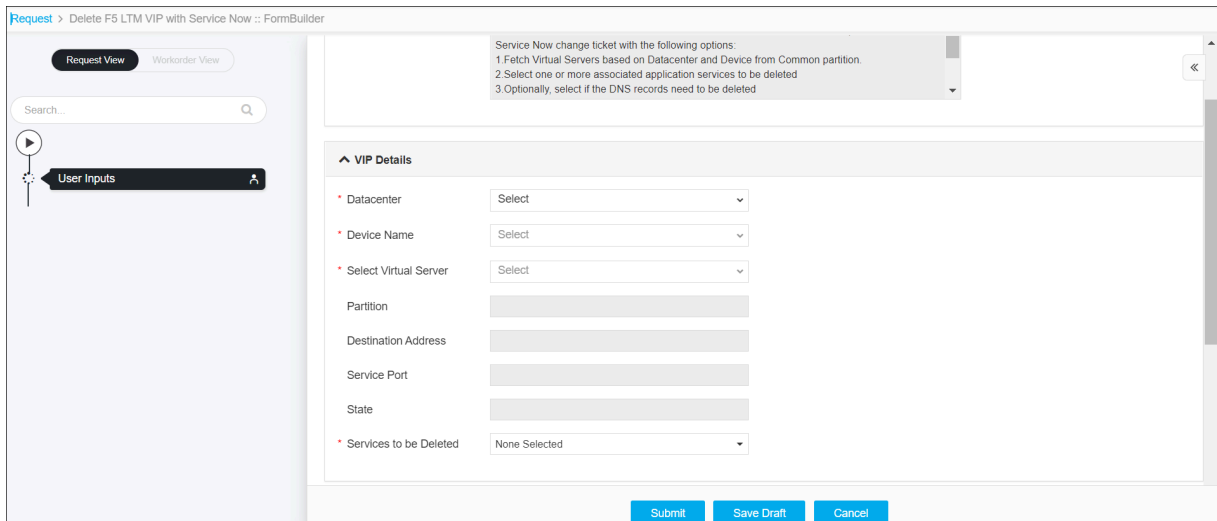
2. In the Workflow Catalog page, hover over the Delete F5 LTM VIP with Service Now workflow.

The Run and Schedule buttons are shown.



3. Click the Run  button.

The Form Input page opens:



Request > Delete F5 LTM VIP with Service Now :: FormBuilder

Request View Workorder View

Search...

User Inputs

Service Now change ticket with the following options:
 1 Fetch Virtual Servers based on Datacenter and Device from Common partition.
 2 Select one or more associated application services to be deleted
 3 Optionally, select if the DNS records need to be deleted

^ VIP Details

* Datacenter Select

* Device Name Select

* Select Virtual Server Select

Partition

Destination Address

Service Port

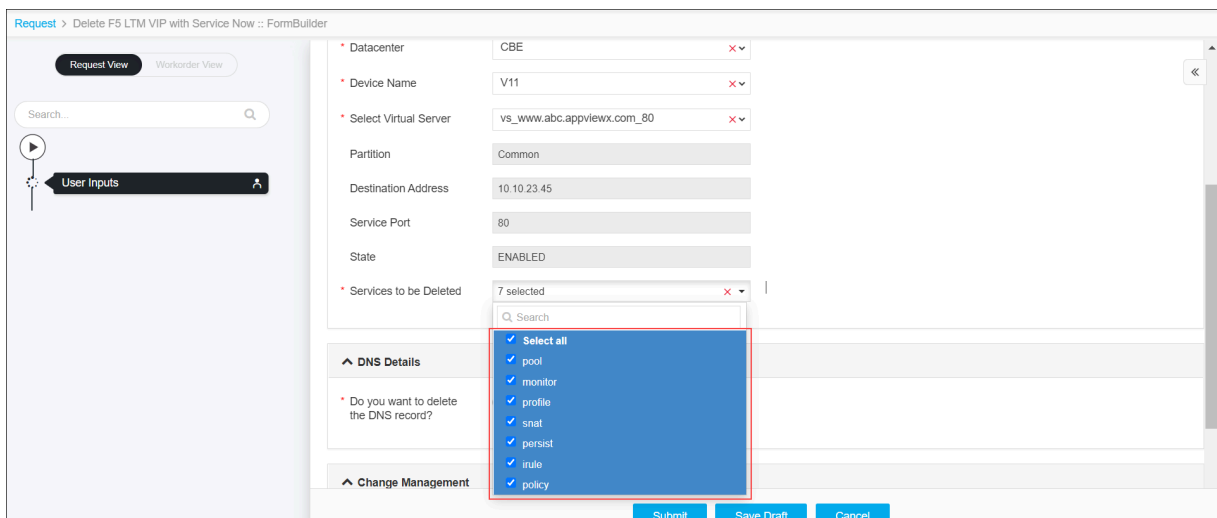
State

* Services to be Deleted None Selected

Submit Save Draft Cancel

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.



Request > Delete F5 LTM VIP with Service Now :: FormBuilder

Request View Workorder View

Search...

User Inputs

* Datacenter CBE

* Device Name V11

* Select Virtual Server vs_www.abc.appviewx.com_80

Partition Common

Destination Address 10.10.23.45

Service Port 80

State ENABLED

* Services to be Deleted 7 selected

Q Search

Select all

pool

monitor

profile

snat

persist

irule

policy

^ DNS Details

* Do you want to delete the DNS record?

^ Change Management

Submit Save Draft Cancel

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:

The screenshot shows the 'Request View' interface for a request titled 'Delete F5 LTM VIP with Service Now :: 21'. The interface has two tabs: 'Request View' (selected) and 'Workorder View'. On the left, there is a search bar and a workflow diagram with steps: 'User Inputs', 'Delete VIP', and 'Review' (highlighted). The main content area is divided into three tabs: 'Implementation', 'Rollback', and 'Postvalidation'. The 'Implementation' tab is active, showing a terminal window with the following commands:

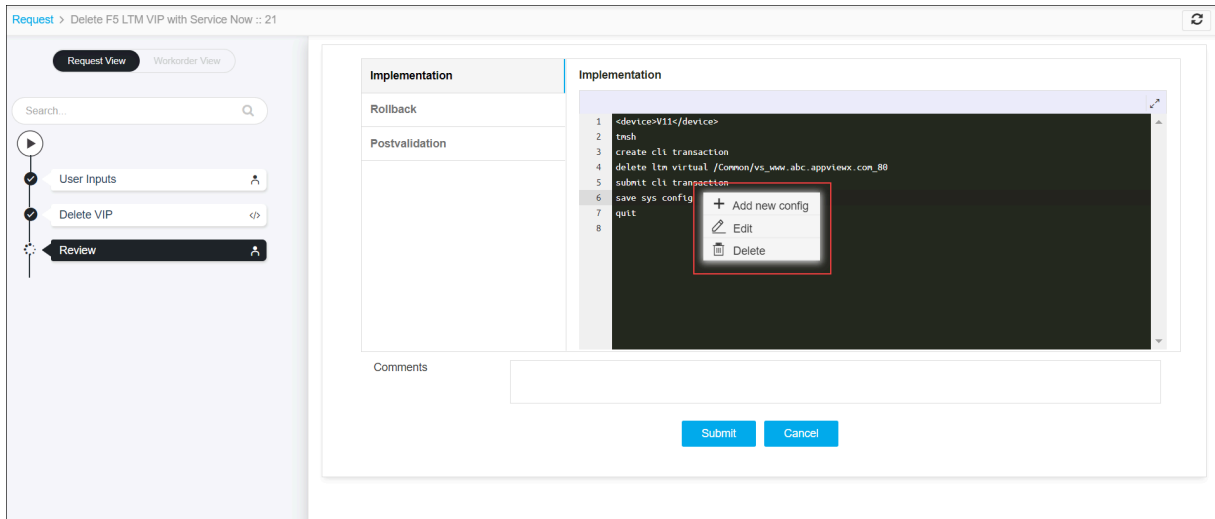
```

1 <device>V11c/device>
2 tns
3 create cli transaction
4 delete ltm virtual /Common/vs_www_abc_appviewx.com_88
5 submit cli transaction
6 save sys config
7 quit
8

```

Below the terminal window is a 'Comments' text area and two buttons: 'Submit' and 'Cancel'.

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.

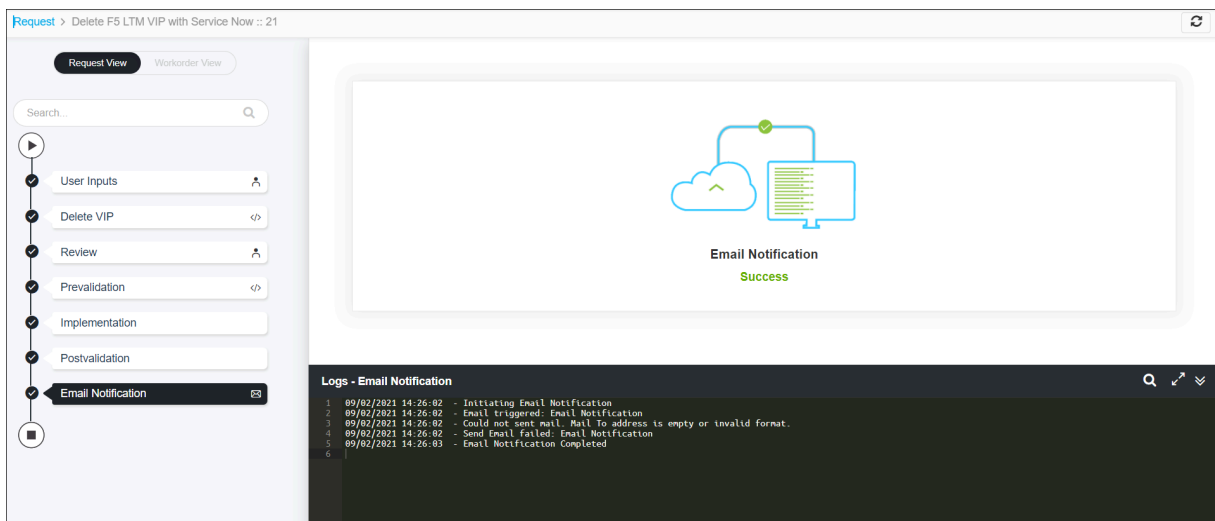


Note: To stop running the workflow creation, Click **Cancel**.

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.




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.

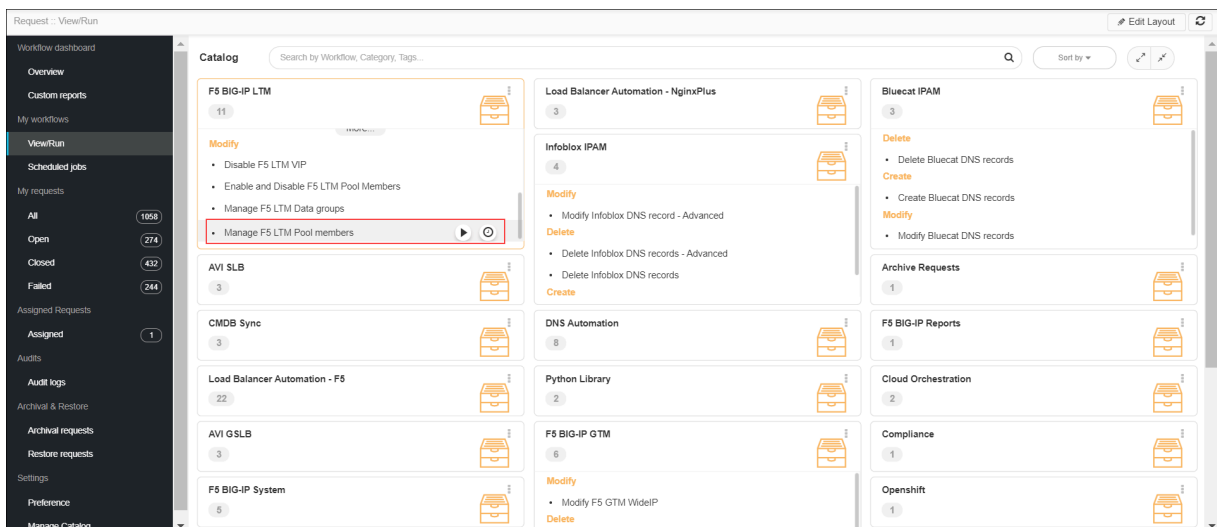
To run this workflow,


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.



3. Click the Run  button.

The Form Input page opens:

Request > Manage F5 LTM Pool members :: FormBuilder

Request View Workorder View

Search...

User Inputs

About this Workflow

Info

Workflow to Manage F5 LTM Pool Members with the following options.

- 1.Fetch Device based on Destination address and port
- 2.Select Virtual Server based on Device
- 3.Fetch Pool Members based on Pool
- 4.Perform Add/Delete actions on Pool Member grid

Virtual Server Details

Destination Address ⓘ

Service Port ⓘ

Get Virtual Server Details

Device Name

Submit **Save draft** **Cancel**

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.

Virtual Server Details

Destination Address ⓘ

Service Port ⓘ

Get Virtual Server Details

Device Name ▼

Virtual Server Name

Datacenter

Partition

State

Pool Name

Load Balancing Mode

- Click the **Get Virtual Server Details** button.

The devices are loaded.

- Select the device name from the **Device Name** drop-down option. The other details of the device are retrieved automatically.
- Click the **Fetch Pool Members** button to get the pool member of the selected device or manually enter the pool member details.

^ Pool Member Details

Fetch Pool Members

* Address ✕ i

* Service Port i

+
✎
↻
🗑

* Pool Members ↗ i

Q Search...

<input type="checkbox"/>	Address	Service Port
<input type="checkbox"/>	26.3.3.33	33
<input type="checkbox"/>	wsd.wed.wed	59

- Click the **Submit** button.

The Confirmation popup opens.



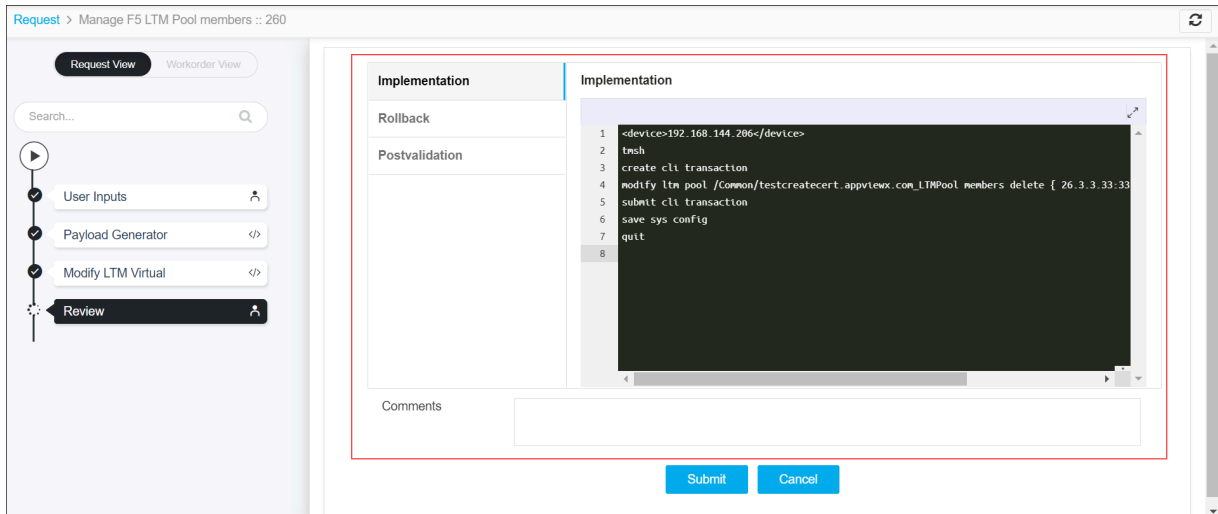
Note:

- 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.

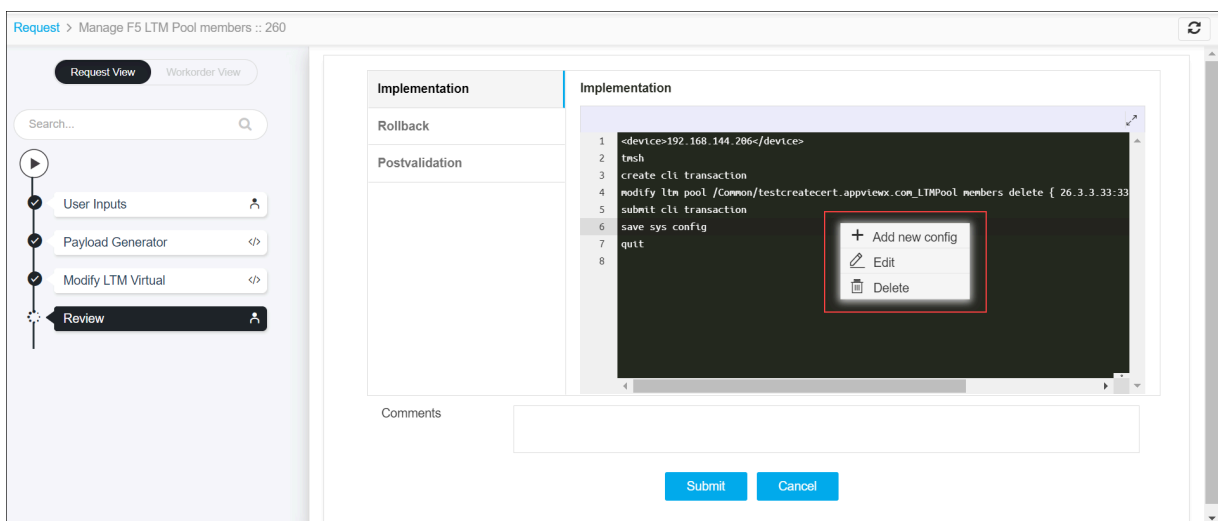
- Click **Ok** to submit the form.

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

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



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.

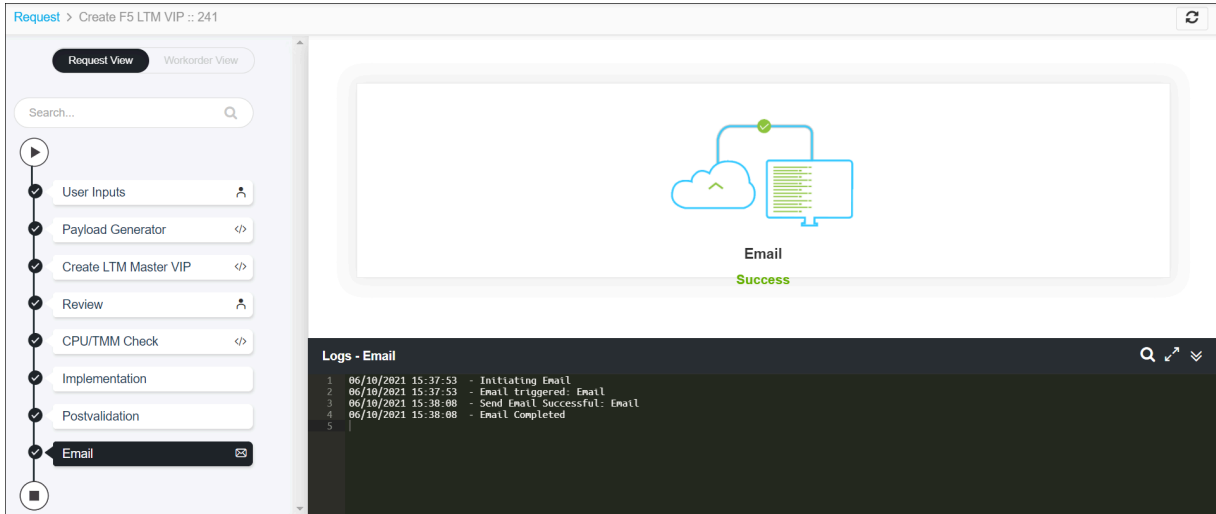


Note: To stop running the workflow creation, click **Cancel**.

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.




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

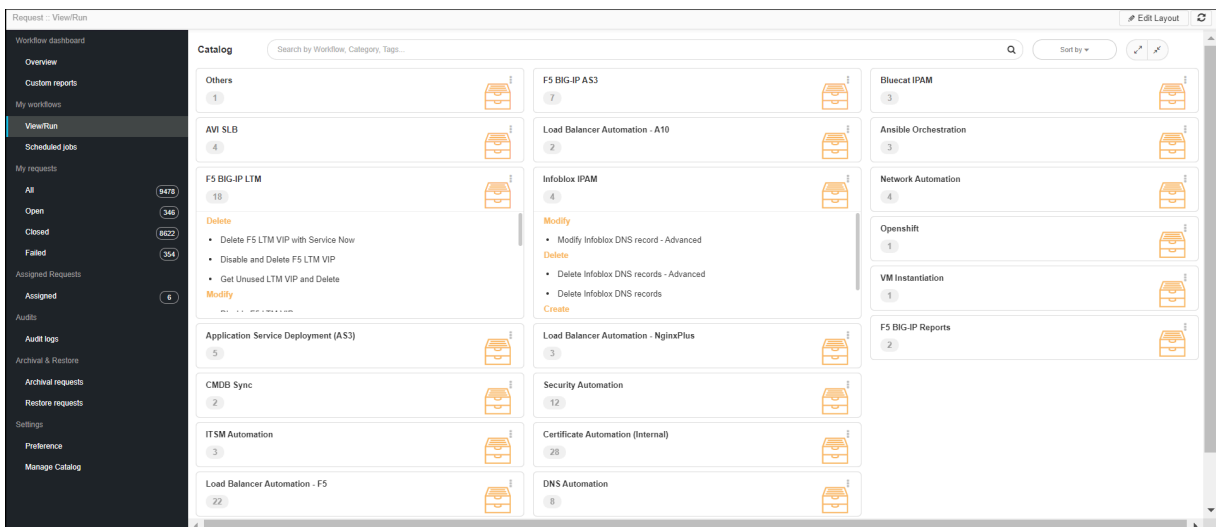
Manage F5 LTM Pool members with Service Now

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

To run this workflow,

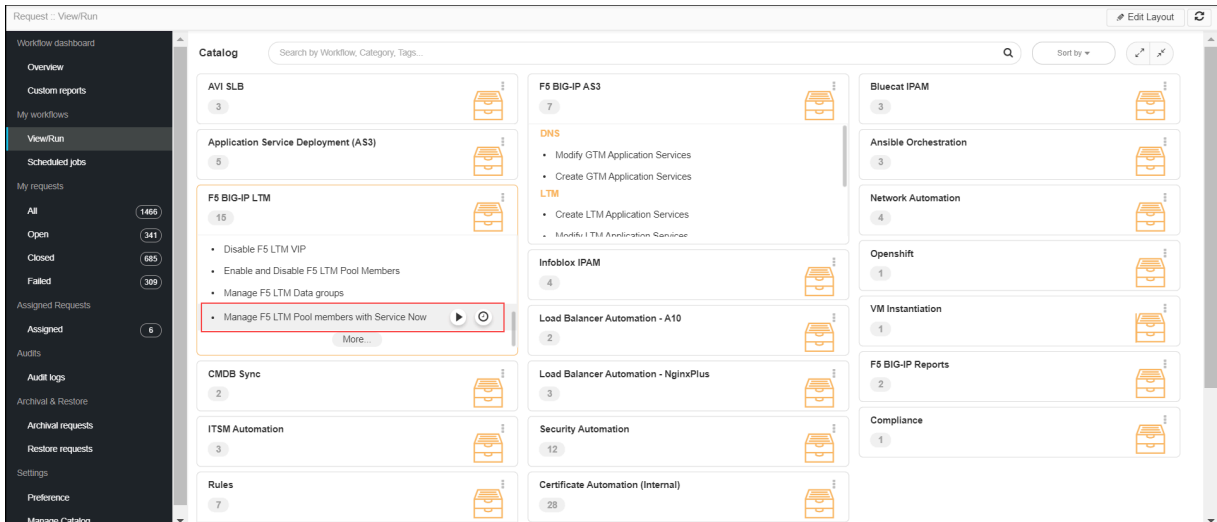
1. Go to  **Menu > Request > View/Run.**


The Workflow Catalog page appears.



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

The Run and Schedule buttons are shown.



- Click the Run  button.

The Form Input page opens:

- 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.
- Click the **Get Virtual Server Details** button.
- The devices are loaded.

The devices are fetched for the given destination address:

Request > Manage F5 LTM Pool members with Service Now - FormBuilder

Request View Workflow View

Search...

User Inputs

▲ About this Workflow

Info

Workflow to Manage F5 LTM Pool Members: Service Now change ticket with the following options.

1. Fetch Device based on Destination address and port
2. Select Virtual Server based on Device
3. Fetch Pool Members based on Pool
4. Perform Add/Delete actions on Pool Member grid

▲ Virtual Server Details

Destination Address: 2.23.3.5 ⓘ

Service Port: 33 ⓘ

Get Virtual Server Details

Device Name: Select

Virtual Server Name:

Partition:

Datacenter:

State:

Pool Name:

Load Balancing Mode:

Submit Save draft Cancel

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.

Request > Manage F5 LTM Pool members with Service Now - FormBuilder

Request View Workflow View

Search...

User Inputs

▲ Virtual Server Details

Destination Address: 2.23.3.5 ⓘ

Service Port: 33 ⓘ

Get Virtual Server Details

Device Name: gr-f5-pa225.lab.appviewx.net

Virtual Server Name: vs_testvip23.appviewx.com_33

Partition: Common

Datacenter:

State: ENABLED

Pool Name: /Common/pool_testvip23.appviewx.com_33

Load Balancing Mode: round-robin

▲ Pool Member Details

Do you want to modify pool Configuration? No Yes

▲ Change Management

Submit Save draft Cancel

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

Pool Member Details

* Do you want to modify pool Configuration? No Yes

Address

Service Port ⓘ

Pool Members

🔍 Search...

<input checked="" type="checkbox"/>	Address	Service Port
<input checked="" type="checkbox"/>	8.96.44.22	90

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

Change Management

* Do you want to integrate ServiceNow? No Yes

* Timezone ▼

* Start Time 📅

* End Time 📅

11. Click the **Submit** button.

The Confirmation popup opens.



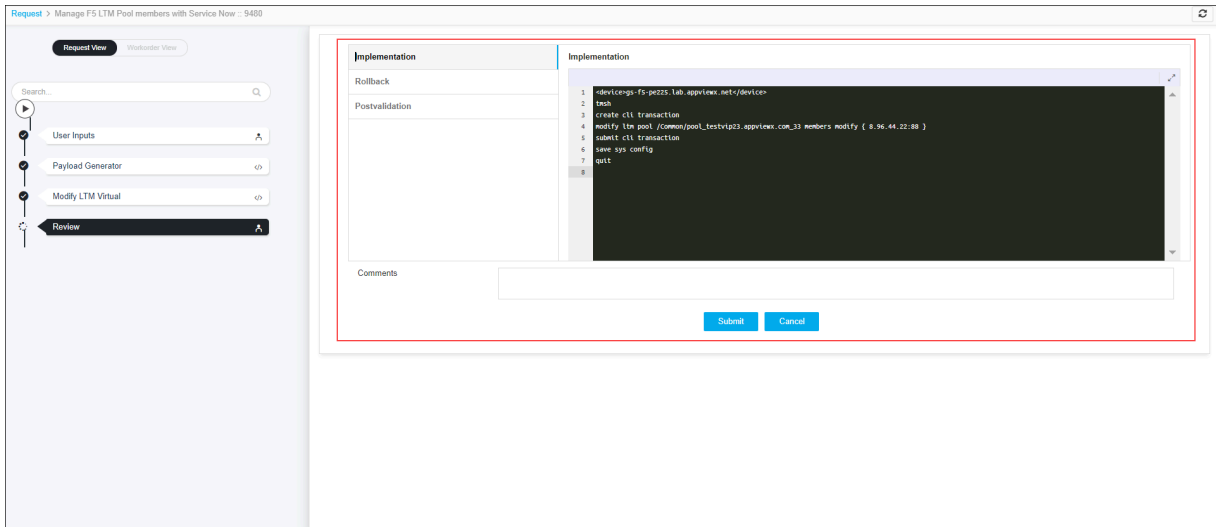
Note:

- 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.

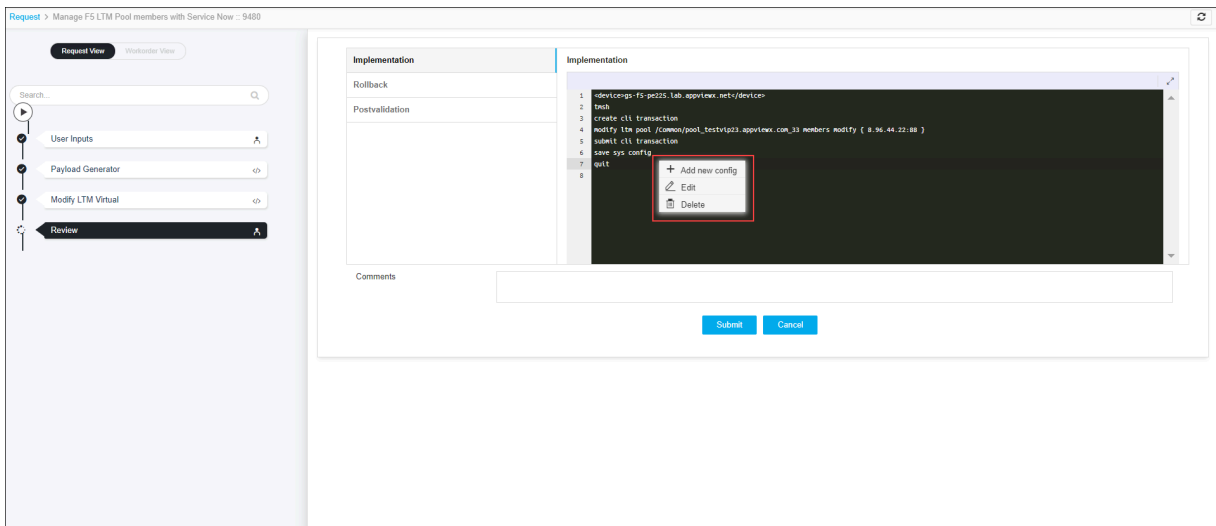
12. Click **Ok** to submit the form.

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

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



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.

The screenshot displays the 'Request View' interface for a workflow titled 'Manage F5 LTM Pool members with Service Now - 9452'. The left sidebar shows a sequence of stages: User Inputs, Payload Generator, Modify LTM Virtual, Review, Prevalidation, Implementation, Postvalidation, and Email Notification. The 'Email Notification' stage is currently selected and highlighted. The main workspace shows a diagram of a cloud connected to a server, with a green checkmark and the text 'Email Notification Success'. Below the workspace, a log window shows the following entries:

```

Logs - Email Notification
09/02/2021 17:43:21 Initiating Email Notification
09/02/2021 17:43:21 Email triggered: Email Notification
09/02/2021 17:43:22 Send Email successful: Email Notification
09/02/2021 17:43:22 Email notification Completed

```




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

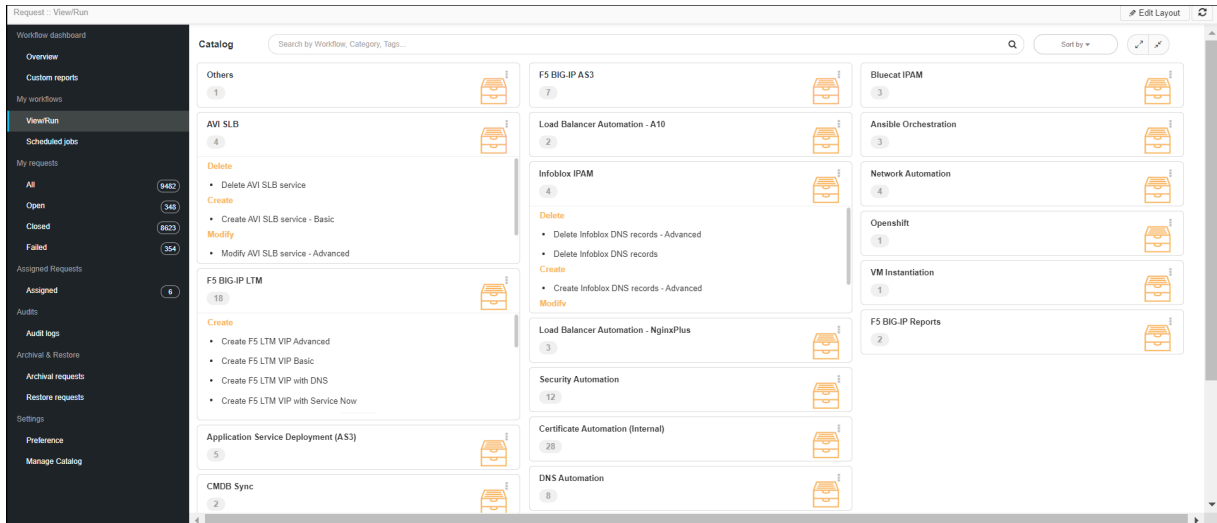
Modify F5 LTM VIP Advanced

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

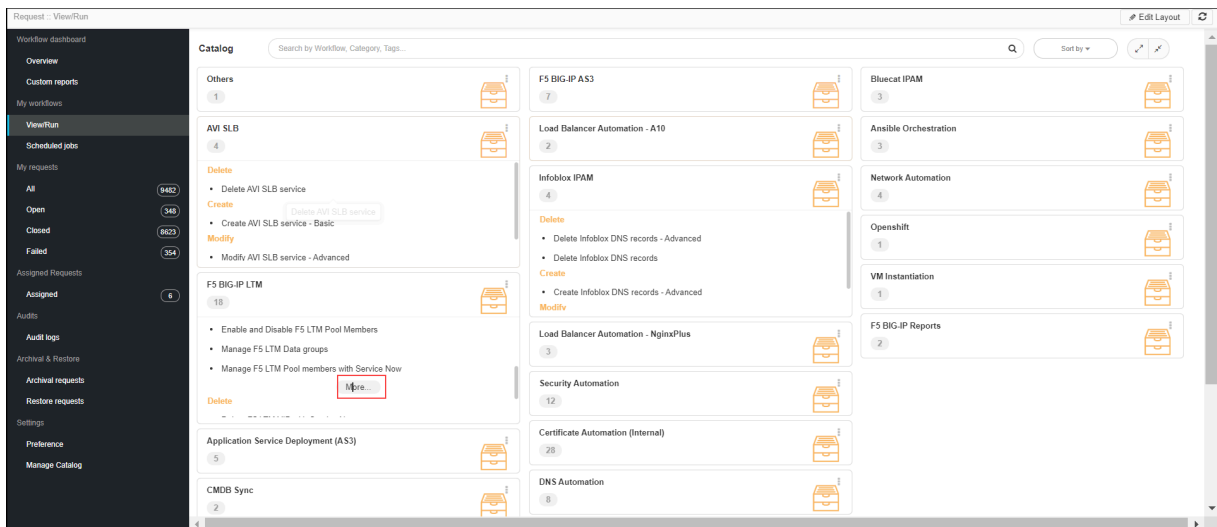
To run this workflow,

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

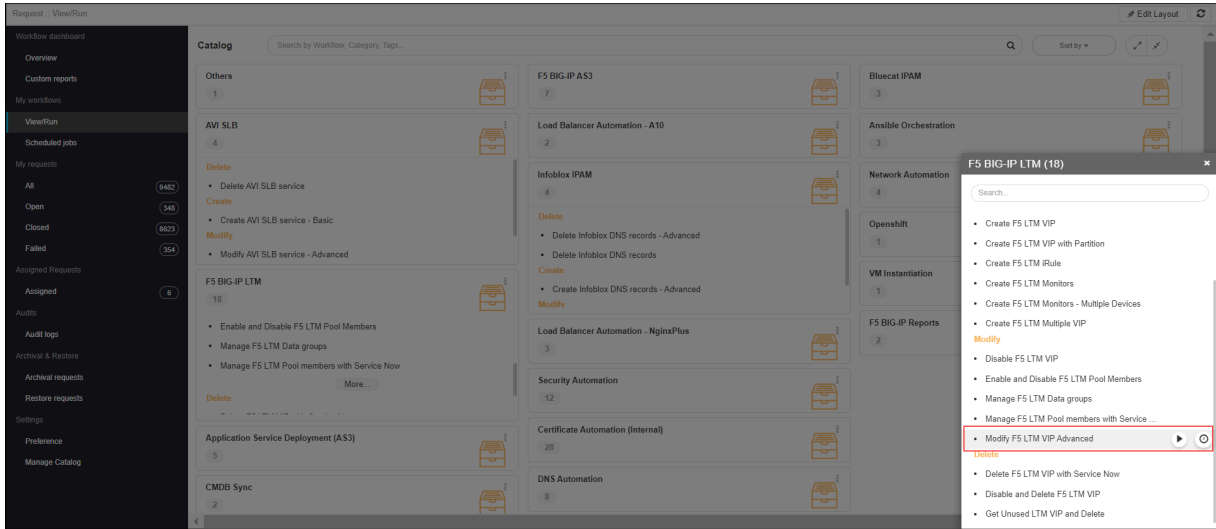
The Workflow Catalog page appears.



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

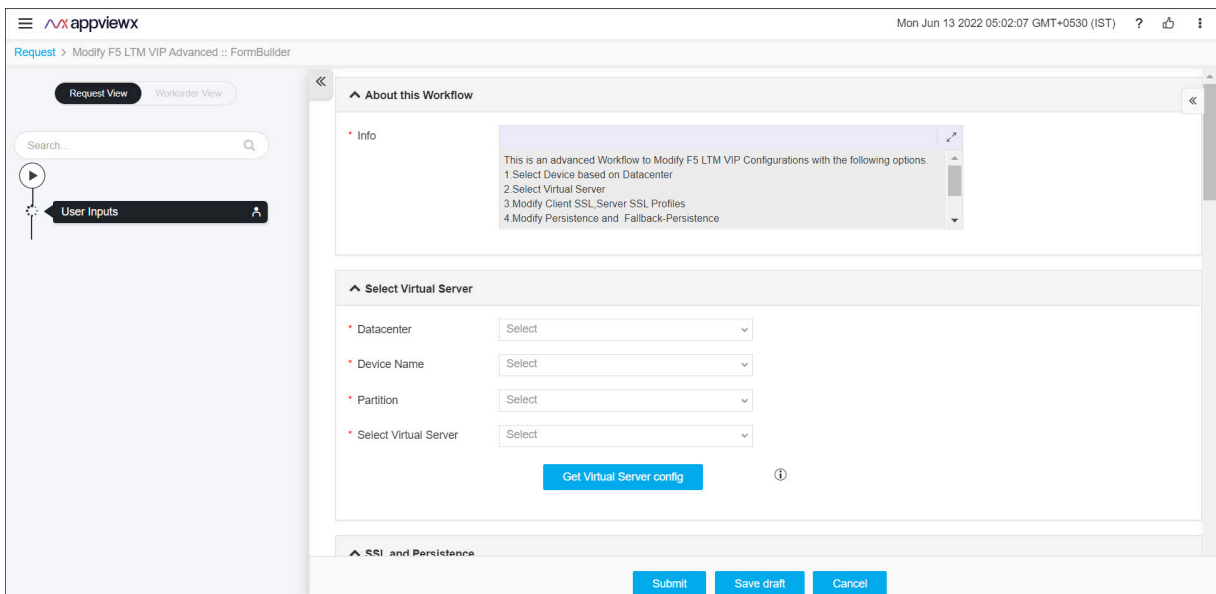


3. Hover over the **Manage F5 LTM VIP Advanced** workflow.
The Run and Schedule buttons are shown.



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.

^ Select Virtual Server

* Datacenter

* Device Name

* Partition

* Select Virtual Server

[Get Virtual Server config](#) i

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.



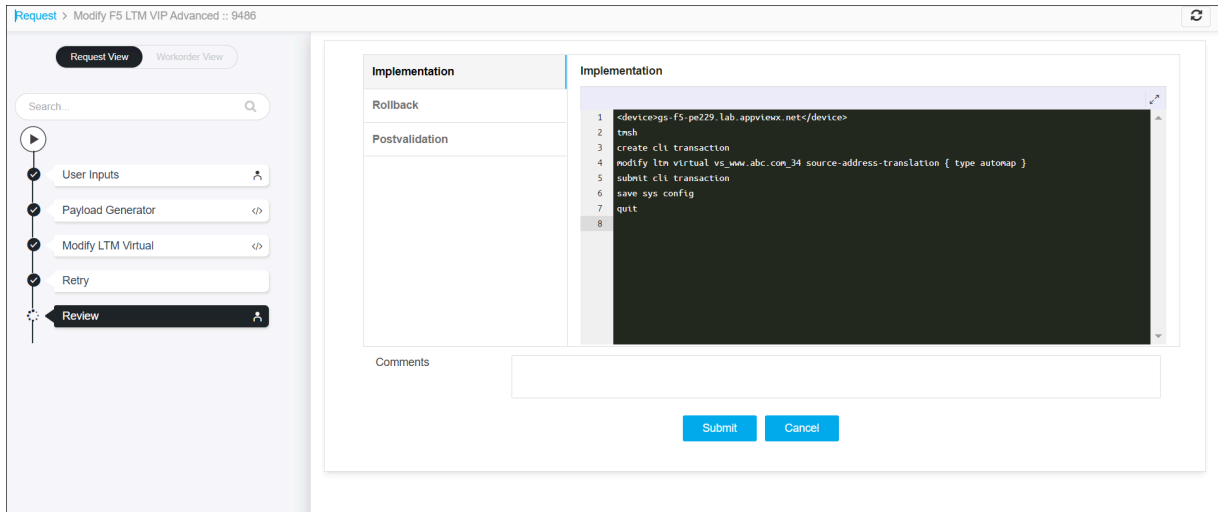
Note:

- 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.

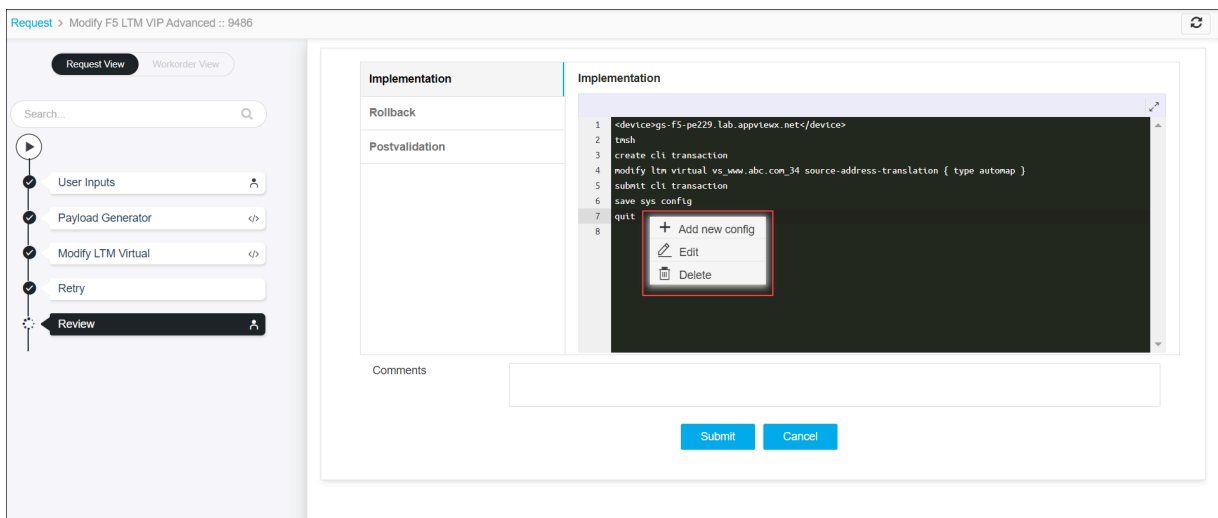
8. Click **Ok** to submit the form.

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

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



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.




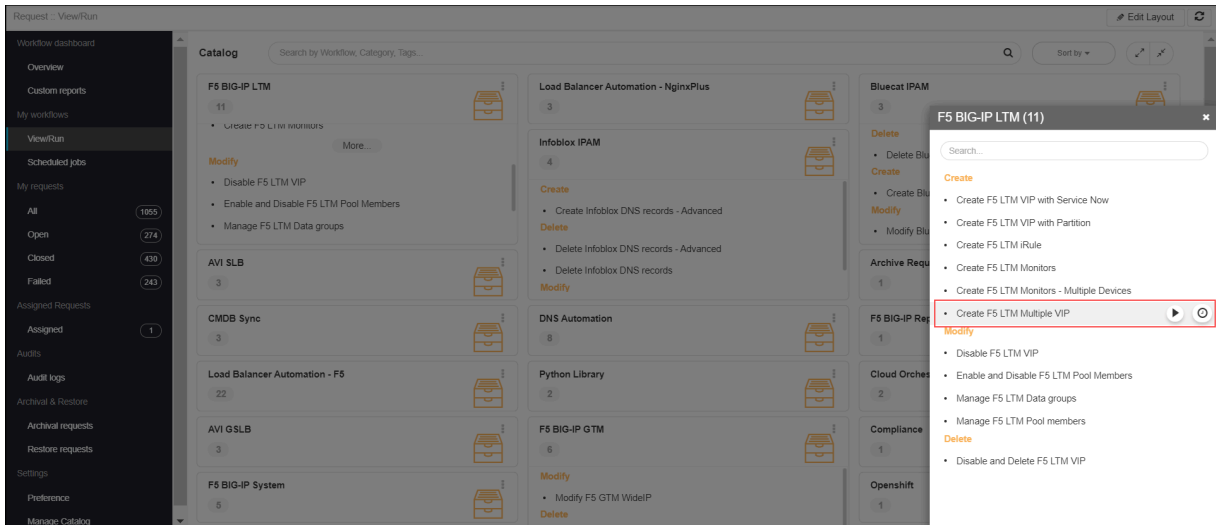
Note: The validation stages are shown in the left side of the screen. To view any validation stage, click on the respective stage.

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.

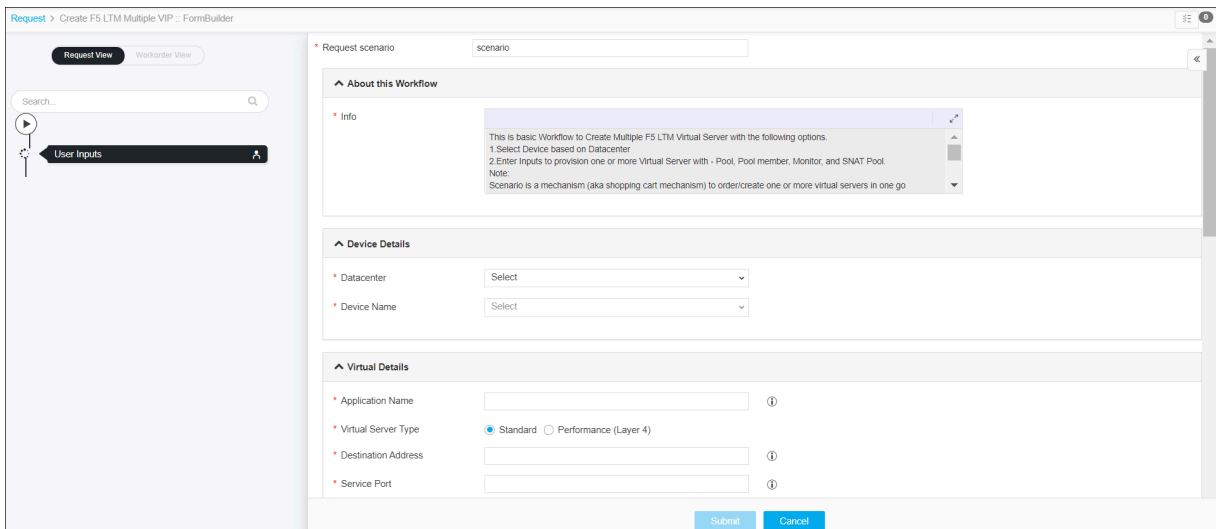
To run this workflow,

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.



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.

^ Device Details

Datacenter

* Device name

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.

^ Virtual Details

* Application Name ⓘ

* Virtual Server Type Standard Performance (Layer 4)

* Destination Address ⓘ

* Service Port ⓘ

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

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. <ul style="list-style-type: none"> • 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.

Pool Details

Load Balancing Method: round-robin

* Address: 10.10.23.54

* Service Port: 123


State: user-enabled user-disabled

Pool Members

Address	Service Port	State	Ratio
No records found			

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

Field	Description
Load Balancing Method	<p>The load balancing method is used to select a pool in this WideIP. The default is a round-robin. The methods are:</p> <ul style="list-style-type: none"> • 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	<p>The current state of the pool members. The statuses are:</p> <ul style="list-style-type: none"> • 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.

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.

^ **Snat Details**

Snat Choice AutoMap SNAT

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

Field	Description
Snat Choice	<p>Select the SNAT choice for any connections using this pool. The options are:</p> <ul style="list-style-type: none"> • 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. <div style="border: 1px solid #ccc; padding: 5px; margin-top: 10px;"> * Snat Pool Select v </div>

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

^ **Monitor Details**


Monitor Type HTTP v

Send String

Receive String

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

Field	Description
Monitor Type	Select the health monitors that are available to add for the pool: <ul style="list-style-type: none"> • 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.

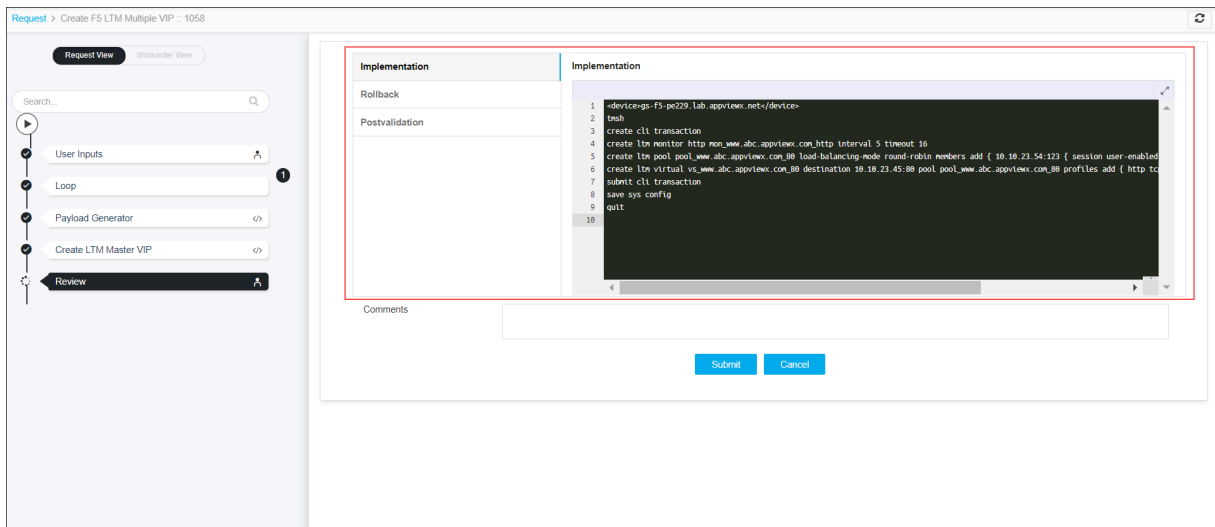
The validation starts automatically and reaches the **Review** stage.



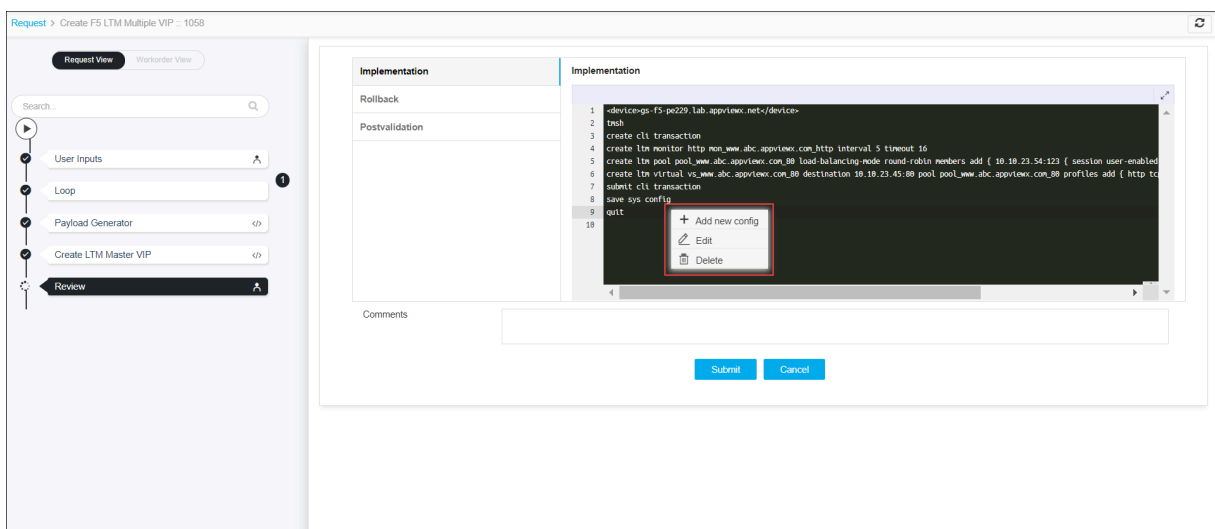
Note:

- 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.

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.




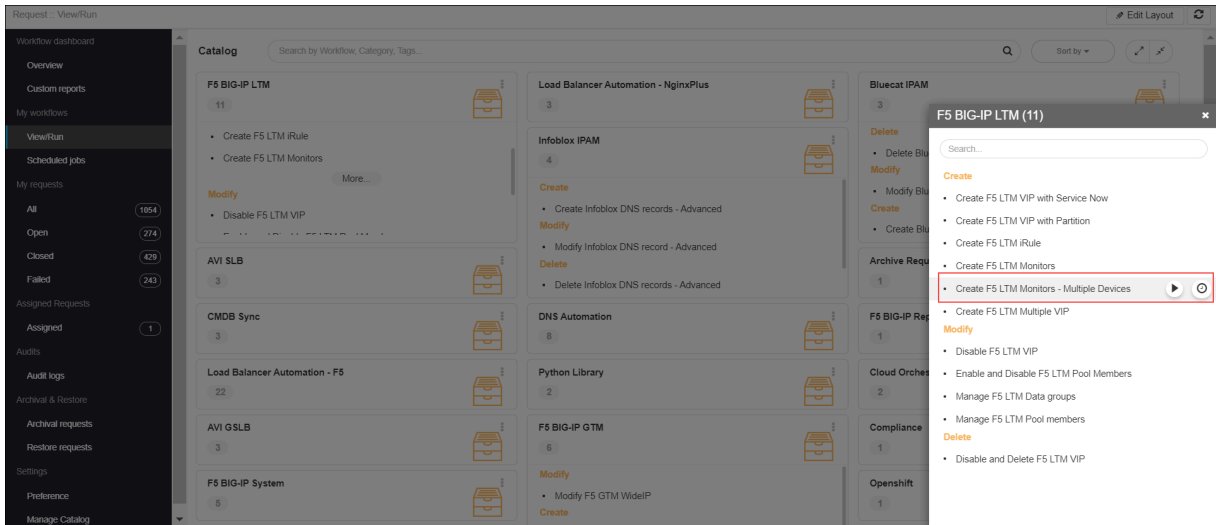
Note: The stages of the request are shown in the left side of the screen. To view a particular stage of the request, click the respective stage.

Create F5 LTM Monitors - Multiple Devices

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

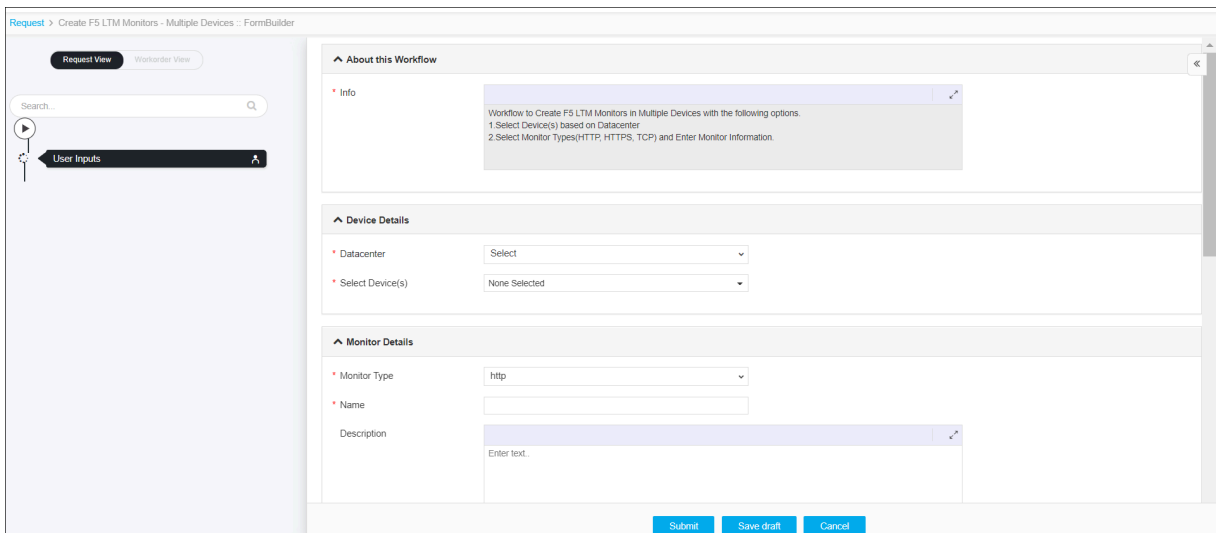
To run this workflow,

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.

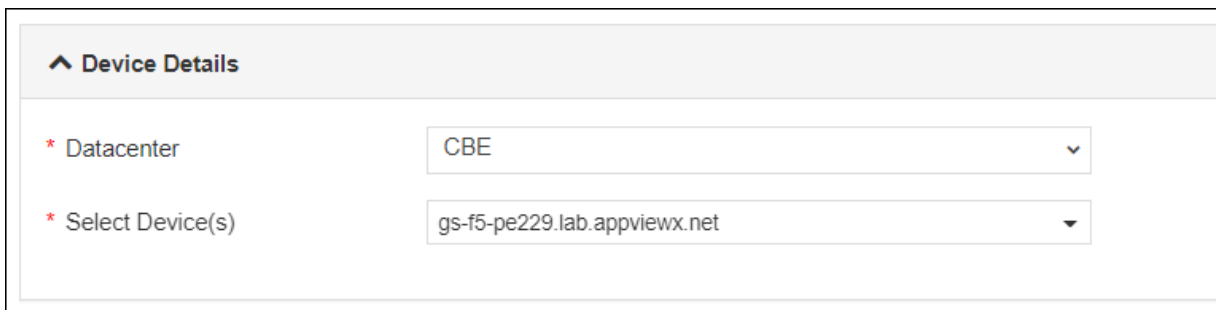


3. Click the Run  button.

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:

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.

Monitor Details

* Monitor Type

* Name

Description

Interval

Timeout

Send String

Receive String

Reverse disabled enabled

Receive Disable String

Username

Password

Transparent disabled enabled

Alias Address

Alias Service Port

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.

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 <code>\r\n</code> at the end of a non-empty Send String. The default setting is <code>GET /\r\n</code> , 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	<p>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.</p> <ul style="list-style-type: none"> • 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.

Field	Description
	<ul style="list-style-type: none"> • 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.

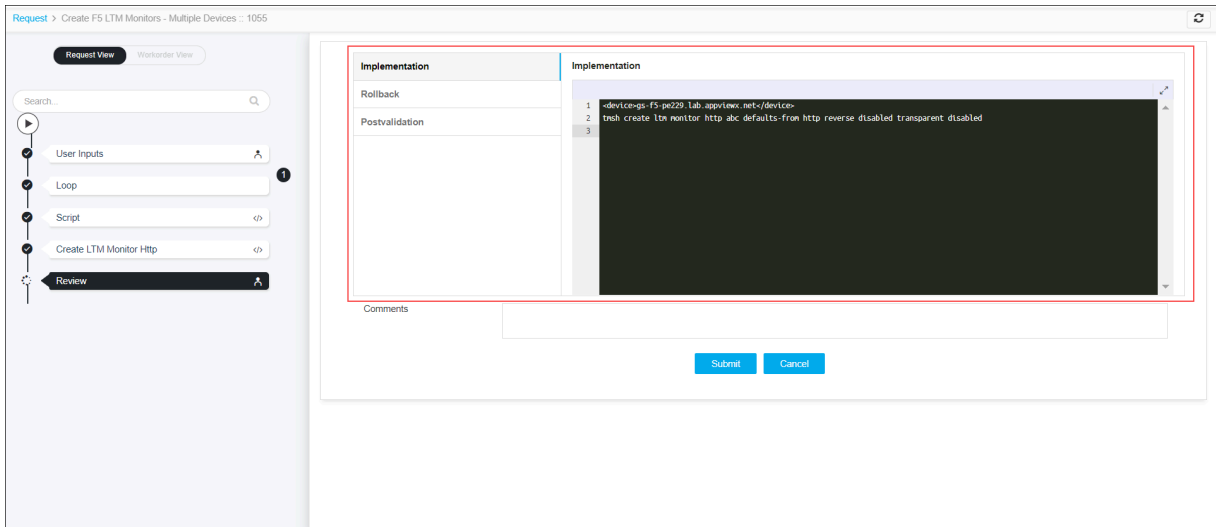
The validation starts automatically and reaches the **Review** stage.



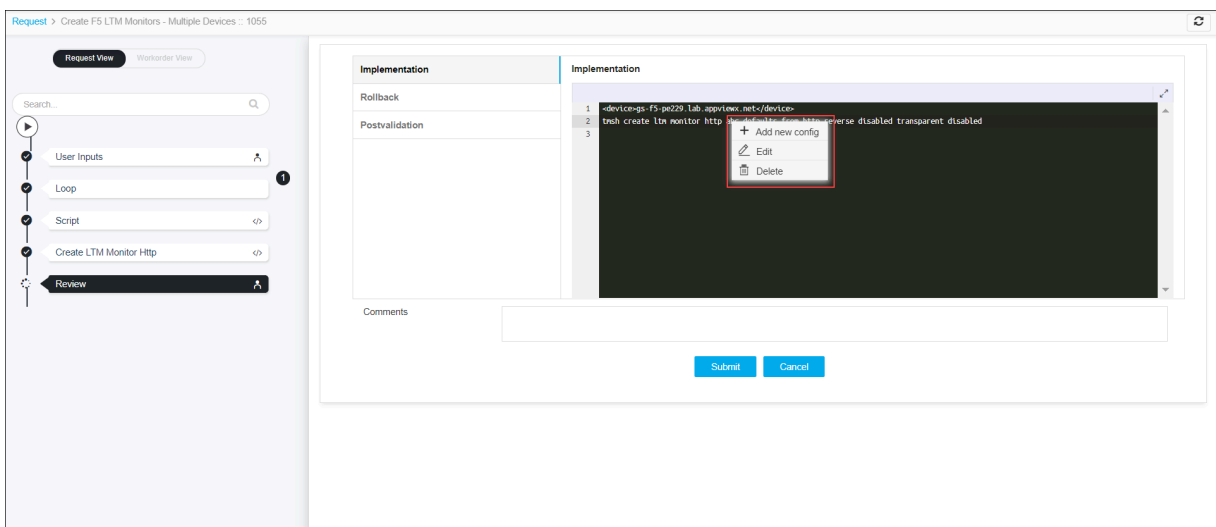
Note:

- 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:



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.

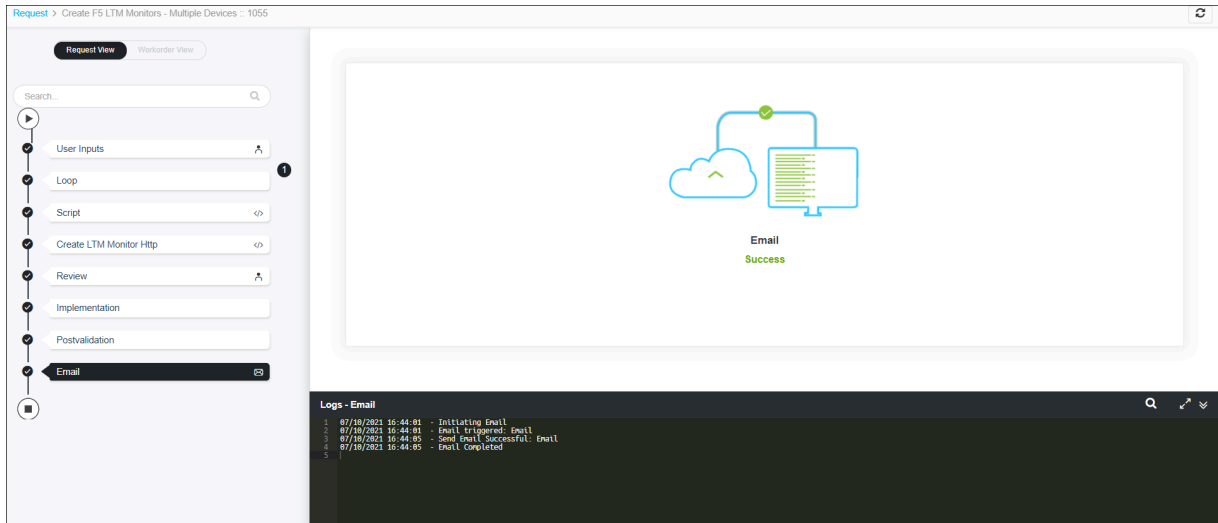


Note: Click Cancel to stop running the workflow creation.

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.



Request View Workorder View

Search...

- User Inputs
- Loop
- Script
- Create LTM Monitor Http
- Review
- Implementation
- Postvalidation
- Email**

Diagram: Cloud icon connected to a server icon with a green checkmark above the connection line. Below the diagram, the text "Email Success" is displayed in green.

Logs - Email

```
1 07/18/2021 16:44:01 - Initiating Email
2 07/18/2021 16:44:01 - Email triggered: Email
3 07/18/2021 16:44:05 - Sent Email Successful: Email
4 07/18/2021 16:44:05 - Email Completed
5
```



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.


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.

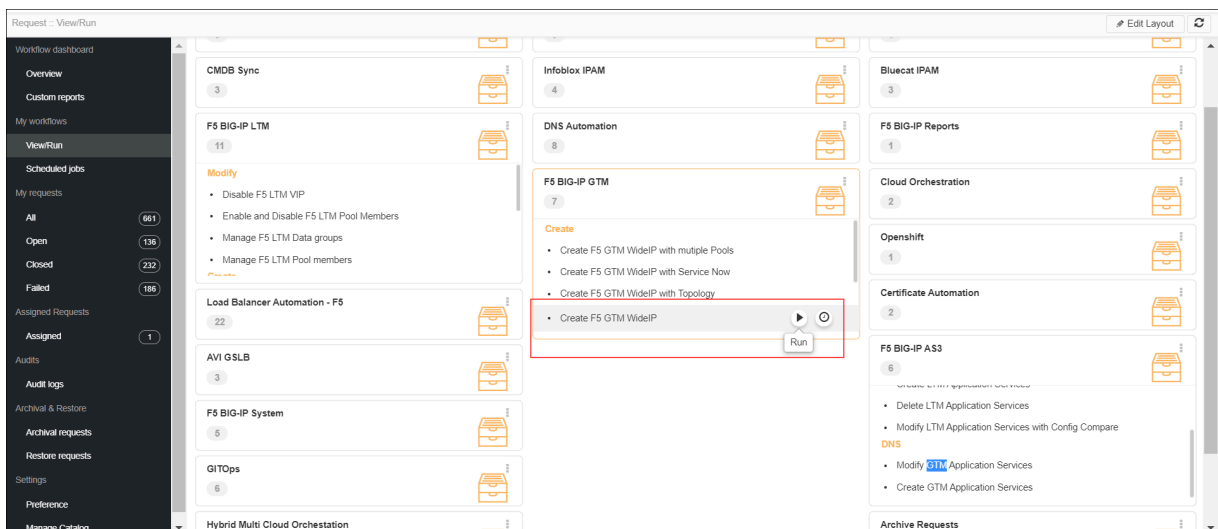
To run this workflow,

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

The Workflow Catalog page appears.

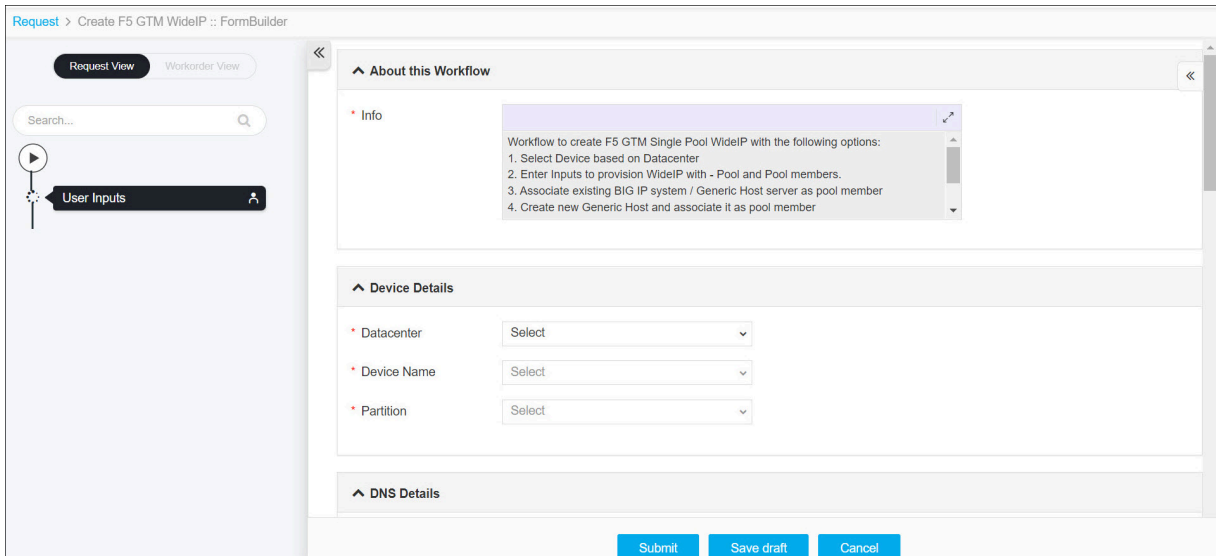
2. In the Workflow Catalog page, hover over the **Create F5 GTM WideIP** workflow.

The Run and Schedule buttons were shown.

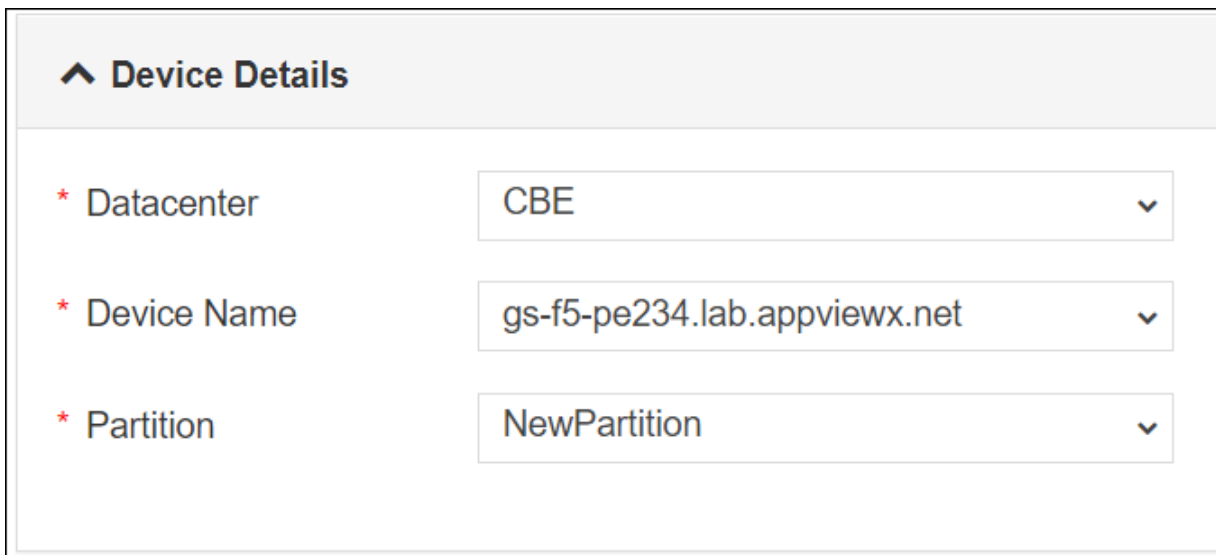


3. Click the Run  button.

The Form Input page opens:



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 .

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.

^ DNS Details

* Do you want to integrate with DNS No Yes

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	<p>By default, the No option is selected. If you want to integrate with DNS for CNAME record creation, select Yes.</p> <p>When you select Yes, the following fields are displayed:</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p> Do you want to integrate with DNS <input type="radio"/> No <input checked="" type="radio"/> Yes</p> <p>* Vendor <input type="text" value="Select"/></p> <p>* Device Name <input type="text" value="Select"/></p> <p>* App Name <input type="text"/></p> </div> <p>Select the Vendor from the drop-down list. The default vendors are: Infoblox and bluecat.</p> <p>When you select DNS vendor as Infoblox, you need to provide the following details:</p> <ul style="list-style-type: none"> Select the Device Name from the drop-down list. Enter the App Name for the WideIP name in the format www.<name>.com. <p>When you select DNS vendor as bluecat, you need to provide the following details:</p>

Field	Description
	<div style="border: 1px solid black; padding: 5px;"> <p>* Do you want to integrate with DNS <input type="radio"/> No <input checked="" type="radio"/> Yes</p> <p>* Vendor <input type="text" value="Select"/></p> <p>* Device Name <input type="text" value="Select"/></p> <p>* App Name <input type="text"/></p> </div> <ul style="list-style-type: none"> • 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.

^ General Properties

* Wide IP Name

* Type

Description

State

* Do you want to add Alias ? No Yes

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.
*Type	<p>Select the pool/WideIP type. The types are:</p> <ul style="list-style-type: none"> • 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.

Field	Description				
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: <ul style="list-style-type: none"> • enabled (default) • disabled 				
Do you want to add Alias ?	<p>Add Alias for the WideIP name. The options are:</p> <ul style="list-style-type: none"> • No (default) • Yes – When you select Yes, the following fields are displayed to add alias details: <p> Alias <input type="text"/></p> <p style="text-align: center;"> <input type="button" value="+"/> <input type="button" value="✎"/> <input type="button" value="↻"/> <input type="button" value="🗑"/> </p> <p>Alias List</p> <div style="border: 1px solid #ccc; padding: 5px;"> <input type="text" value="Search..."/> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;">Alias</td> </tr> <tr> <td colspan="2" style="text-align: center;">No records found</td> </tr> </table> </div> <p>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 <input type="button" value="+"/> to add an alias. The added aliases are displayed under the Alias List. You can manage the added alias(es) to the list.</p>	<input type="checkbox"/>	Alias	No records found	
<input type="checkbox"/>	Alias				
No records found					

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

Pool

Info

Step 1) Retrieve field values for Health Monitor by clicking on Retrieve Icon next to 'Health Monitor' field
 Note: 1. When either of Preferred, Alternate or Fallback is chosen as 'fallback-ip', then user must enter, Fallback IP.
 2. Fallback IP is not applicable for type CNAME

* Load Balancing Method ⓘ

* Persistence disabled enabled

Preferred ⓘ

Alternate ⓘ

Fallback ⓘ


Health Monitor ⓘ



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	<p>The load balancing method is used to select a pool in this WideIP. The methods are:</p> <ul style="list-style-type: none"> • 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	<p>Select the preferred load balancing method. The system tries this method first.</p> <div style="border: 1px solid #00a0e3; border-radius: 10px; padding: 10px; margin-top: 10px;"> <p> Note: When you choose the fallback-ip option, the Fallback IP field will be displayed and you need to input the Fallback IP.</p> </div>
Alternate	<p>Select the alternate load balancing method. The system tries this method if the Preferred method is unsuccessful in picking the WideIP.</p> <div style="border: 1px solid #00a0e3; border-radius: 10px; padding: 10px; margin-top: 10px;"> <p> Note: When you choose the fallback-ip option, the Fallback IP field will be displayed and you need to input the Fallback IP.</p> </div>
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 .

Field	Description
Health Monitor	<p>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</p>

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

Pool Member Details

Info

1. For Pool with type A, Pool members can be Existing Generic Host, New Generic Host or Existing BigIP System
 2. For Pool with type CNAME, pool members can be either existing wide IP or a static wide IP

* Pool Member Type Generic Host Big IP System

* Generic Host Type Existing


* Existing Generic Host /Common/10.9.8.12:10_9_8_12

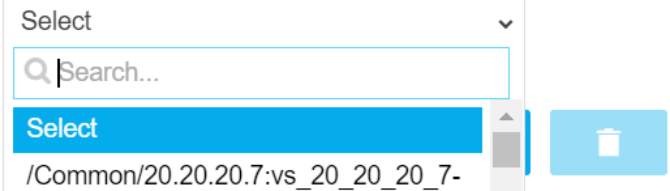


* Pool Member List

Search...

<input type="checkbox"/>	Pool Member Ty...	Generic Host Ty...	Data Center	Pool Member...
<input type="checkbox"/>	Generic Host	Existing		

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

Field	
Pool Member Type	<p>Select the pool member types. The pool member types are:</p> <ul style="list-style-type: none"> • Generic Host – When you select this pool member type, you get the option to select the Generic Host Type <div data-bbox="373 399 998 493"> <p> Generic Host Type</p> </div> <div data-bbox="373 913 966 955"> <p>* Real Member List</p> </div> <ul style="list-style-type: none"> • Big IP System – When you select this pool member type, you get the option to select the configured virtual <div data-bbox="373 1081 828 1165"> <p>* Virtual Server</p> </div> <div data-bbox="373 1564 933 1606"> <p>*</p> </div> <div data-bbox="357 1627 1615 1711" style="border: 1px solid #0070C0; padding: 5px;"> <p> Note: It takes a while to load the servers.</p> </div> <div data-bbox="1209 378 1624 945"> <p>Select</p> <p>Q Search...</p> <p>Existing</p> <p>Create New</p> </div> <div data-bbox="1185 1060 1624 1585"> <p>Select</p> <p>Q Search...</p> <p>Select</p> <p>/Common/192</p> </div>
*Generic Host Type	<p>When the pool member type is selected as Generic Host, you need to select the type of generic host. The ge</p>

Field	
	<ul style="list-style-type: none"> • Existing – This option allows to select the existing host. When you select this option, the existing generic host is selected. <p>* Existing Generic Host </p> <ul style="list-style-type: none"> • Create New – This option allows you to create a generic host. When you select this, the following fields are required: <ul style="list-style-type: none"> • *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 pool member details, and then click the Add  button. The pool member details are added to the list.  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.

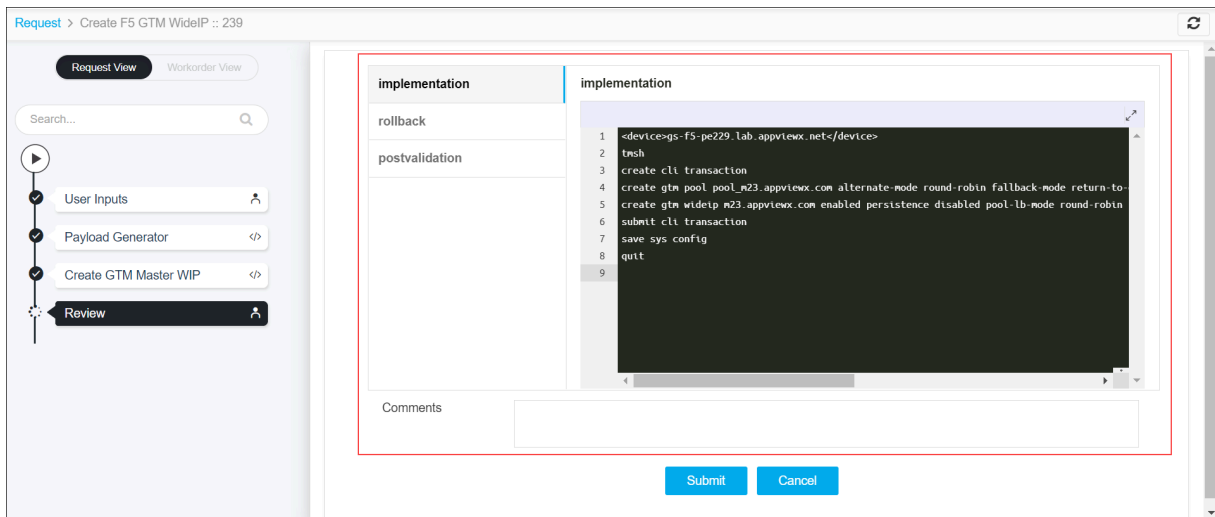
The validation starts automatically and reaches the **Review** stage.



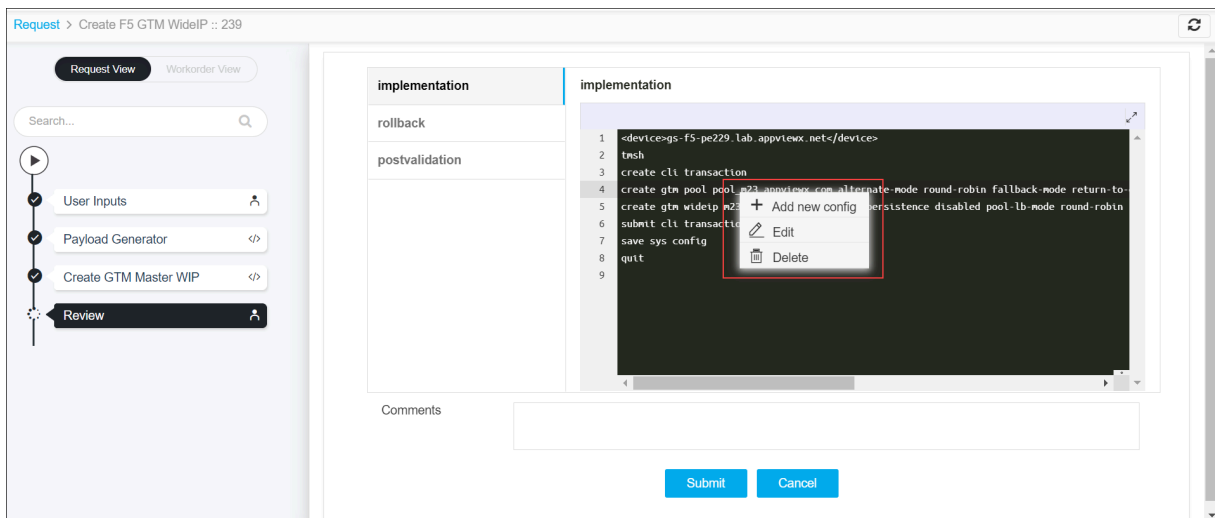
Note:

- 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**.

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.




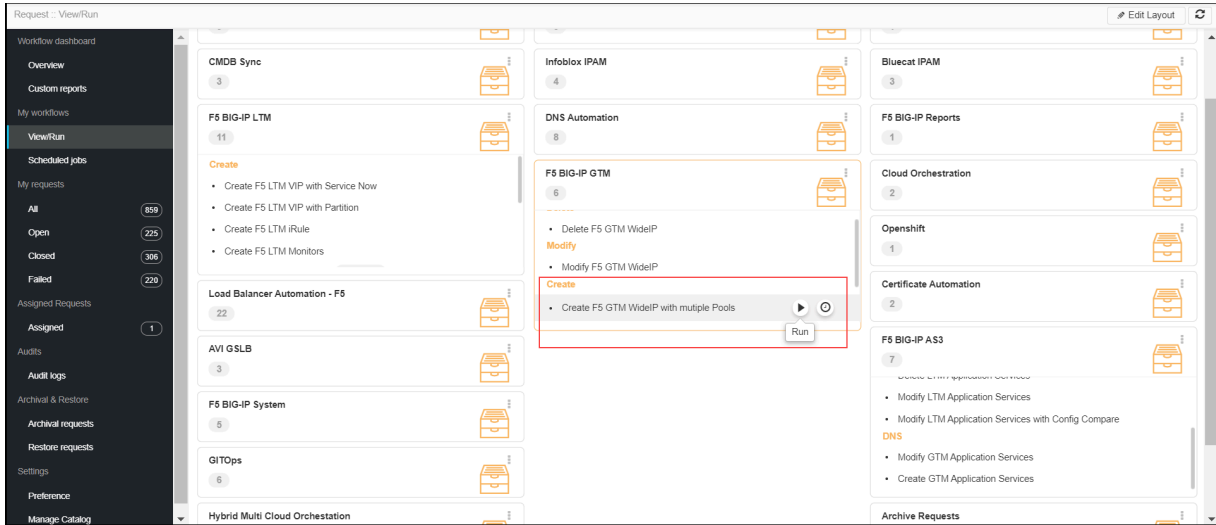
Note: The stages of the request are shown in the left side of the screen. To view a particular stage of the request, click the respective stage.

Create F5 GTM WideIP with Multiple Pools

This workflow creates a GTM WideIP with multiple pools.

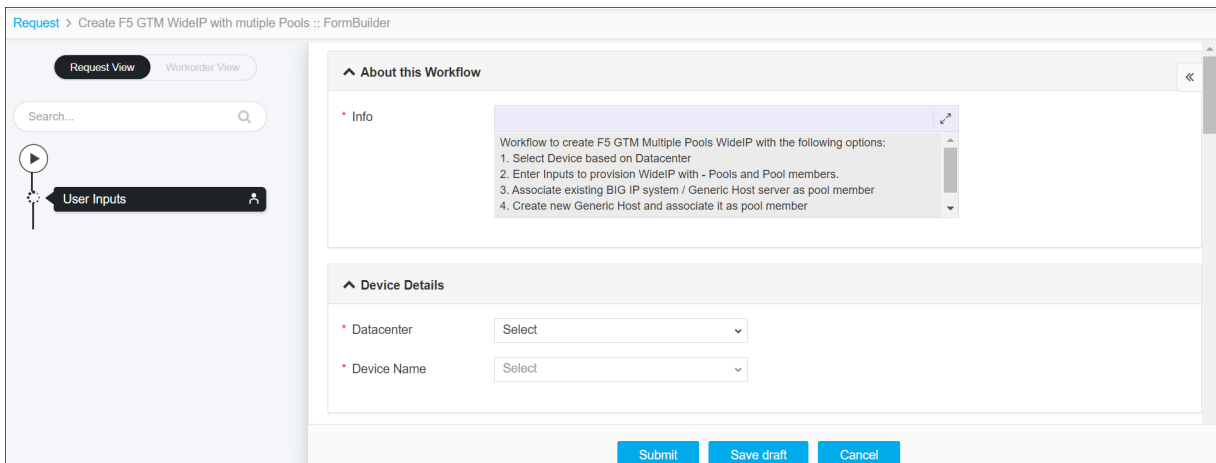
To run this workflow,

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.

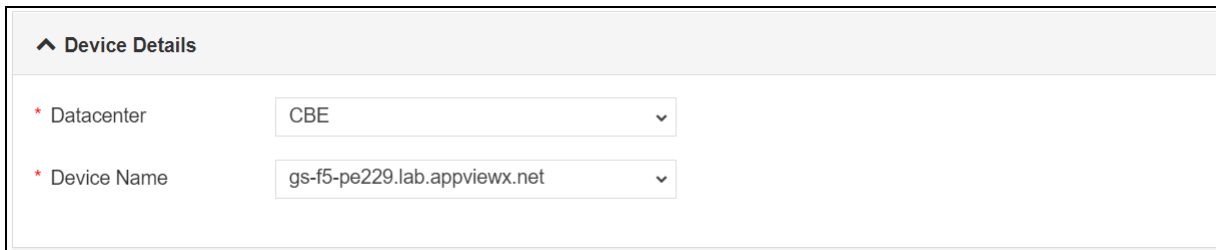


3. Click the Run  button.

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:

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.

^ DNS Details

* Do you want to integrate with DNS No Yes

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	<p>By default, the No option is selected. If you want to integrate with DNS for CNAME record creation, select Yes.</p> <p>When you select Yes, the following fields are displayed:</p> <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <p> Do you want to integrate with DNS <input type="radio"/> No <input checked="" type="radio"/> Yes</p> <p>* Vendor <input type="text" value="Select"/></p> <p>* Device Name <input type="text" value="Select"/></p> <p>* App Name <input type="text"/></p> </div> <p>Select the Vendor from the drop-down list. The default vendors are: Infoblox and bluecat.</p> <p>When you select DNS vendor as Infoblox, you need to provide the following details:</p> <ul style="list-style-type: none"> Select the Device Name from the drop-down list. Enter the App Name for the WideIP name in the format www.<name>.com. <p>When you select DNS vendor as bluecat, you need to provide the following details:</p>

Field	Description
	<p>* Vendor <input type="text" value="bluecat"/> ▾</p> <p>* Device Name <input type="text" value="gs-bluecat.avxlab.com"/> ▾</p> <p>* Configuration <input type="text" value="Select"/> ▾</p> <p>* View <input type="text" value="Select"/> ▾</p> <p>* App Name <input type="text"/> ✖</p> <ul style="list-style-type: none"> • 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.

^ General Properties

* Wide IP Name

* Type ▾

Description

State ▾

* Do you want to add Alias ? No Yes

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:

Field	Description
	<ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • enabled (default) • disabled
Do you want to add Alias ?	Add Alias to the WideIP name. The options are: <ul style="list-style-type: none"> • No (default) • Yes – When you select Yes the following fields are displayed to add alias details: <div style="margin-left: 20px;"> <p> Alias <input style="width: 200px;" type="text"/></p> <div style="display: flex; justify-content: center; gap: 10px; margin: 5px 0;"> + ✎ ↻ 🗑 </div> <p>Alias List ↕</p> <div style="border: 1px solid #ccc; padding: 5px; margin: 5px 0;"> <input style="width: 90%; border: none;" type="text" value="Search..."/> </div> <div style="border: 1px solid #ccc; padding: 5px; margin: 5px 0;"> <input type="checkbox"/> Alias No records found </div> </div> <p>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.</p>

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

Pool

Info

Step 1) Retrieve field values for Health Monitor by clicking on Retrieve Icon next to 'Health Monitor' field

Note: 1. When either of Preferred, Alternate or Fallback is chosen as 'fallback-ip', then user must enter, Fallback IP.

2. Fallback IP is not applicable for type CNAME

* Load Balancing Method: ⓘ

* Persistence: disabled enabled

* Pool Name:

Preferred: ⓘ

Alternate: ⓘ

Fallback: ⓘ

Health Monitor: ⓘ





* Pools

Search...

<input type="checkbox"/>	Pool Name	Preferred	Alternate	Fallback	Fallback IP
No records found					

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	<p>The load balancing method used to select a pool in this WideIP. The methods are:</p> <ul style="list-style-type: none"> • 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


Field	Description
	<p>is available. If the pool becomes unavailable for any reason, the system then repeatedly selects the next pool in the list, and so on.</p> <ul style="list-style-type: none"> • 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	<p>Select the preferred load balancing method. The system tries this method first.</p> <div data-bbox="402 716 1414 848" style="border: 1px solid #add8e6; border-radius: 10px; padding: 10px;">  Note: When you choose the fallback-ip option, the Fallback IP field will be displayed and you need to input the Fallback IP. </div>
Alternate	<p>Select the alternate load balancing method. The system tries this method if the Preferred method is unsuccessful in picking the WideIP.</p> <div data-bbox="402 982 1414 1115" style="border: 1px solid #add8e6; border-radius: 10px; padding: 10px;">  Note: When you choose the fallback-ip option, the Fallback IP field will be displayed and you need to input the Fallback IP. </div>
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	<p>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</p>
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.

Pool Member Details

Info ↗



Step 1) Retrieve field values for Pool by clicking on Retrieve Icon next to 'Pool' field
 Note: 1. For Pool with type A, Pool members can be Existing Generic Host, New Generic Host or Existing BigIP System
 2. For Pool with type CNAME, pool members can be either existing wide IP or a static wide IP

* Pool 

* Pool Member Type Generic Host Big IP System

* Generic Host Type


* Existing Generic Host



+

C



* Pool Member List ↗

<input type="checkbox"/>	Pool	Pool Member Ty...	Generic Host Ty...	Data Center
No records found				

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: <ul style="list-style-type: none"> • Generic Host – When you select this pool member type, you get the option to select the Generic Host Type

Field	Description
	<div data-bbox="373 289 863 352"> <p>* Generic Host Type</p> </div> <div data-bbox="1036 289 1624 709"> <p>Select</p> <p>Q Search...</p> <p>Existing</p> <p>Create New</p> </div> <div data-bbox="373 688 837 720"> <p>* Pool Member List</p> </div> <div data-bbox="354 772 1624 814"> <p>• Big IP System – When you select this pool member type, you get the option to select the configured virtual</p> </div> <div data-bbox="393 882 743 932"> <p>* Virtual Server</p> </div> <div data-bbox="1010 865 1624 1272"> <p>Select</p> <p>Q Search...</p> <p>Select</p> <p>/Common/192.168.94.129</p> </div> <div data-bbox="370 1369 922 1419"> <p> Note: It takes a while to load the servers.</p> </div>
<p>*Generic Host Type</p>	<p>When the pool member type is selected as Generic Host, you need to select the type of generic host. The ge</p> <ul style="list-style-type: none"> • Existing – This option allows to select the existing host. When you select this option, the existing generic h <div data-bbox="357 1625 571 1692"> <p>* Existing Generic Host</p> </div> <div data-bbox="672 1617 1334 1814"> <p>Select</p> <p>Q Search...</p> <p>Select</p> <p>/Common/20.20.20.7:vs_20_20_20_7-</p>  </div>

Field	Description
	<ul style="list-style-type: none"> • Create New – This option allows you to create a generic host. When you select this, the following fields are required: <ul style="list-style-type: none"> • *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 can be added.

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.

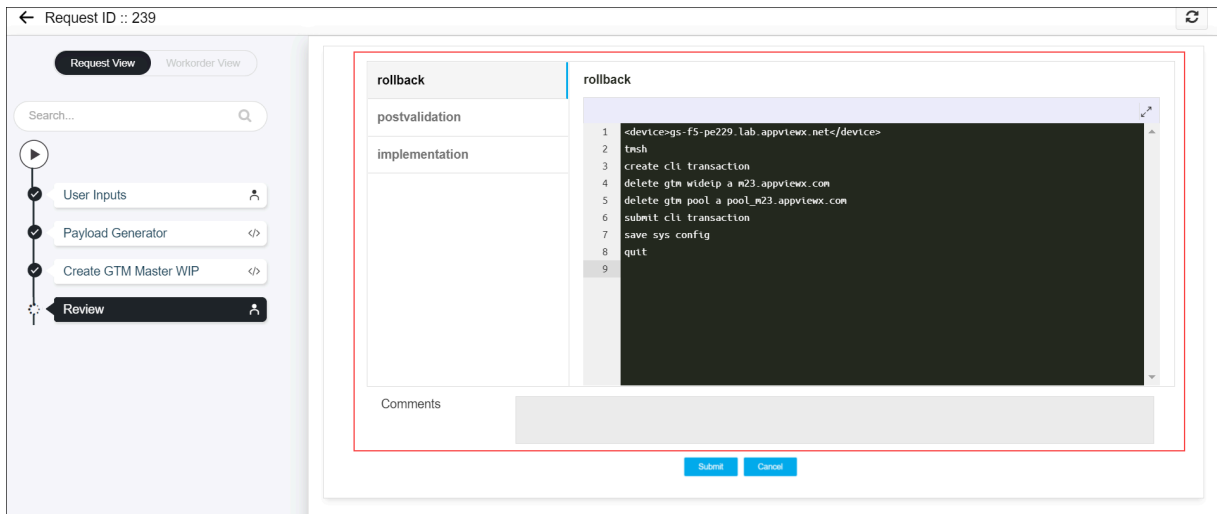
The validation starts automatically and reaches the **Review** stage.



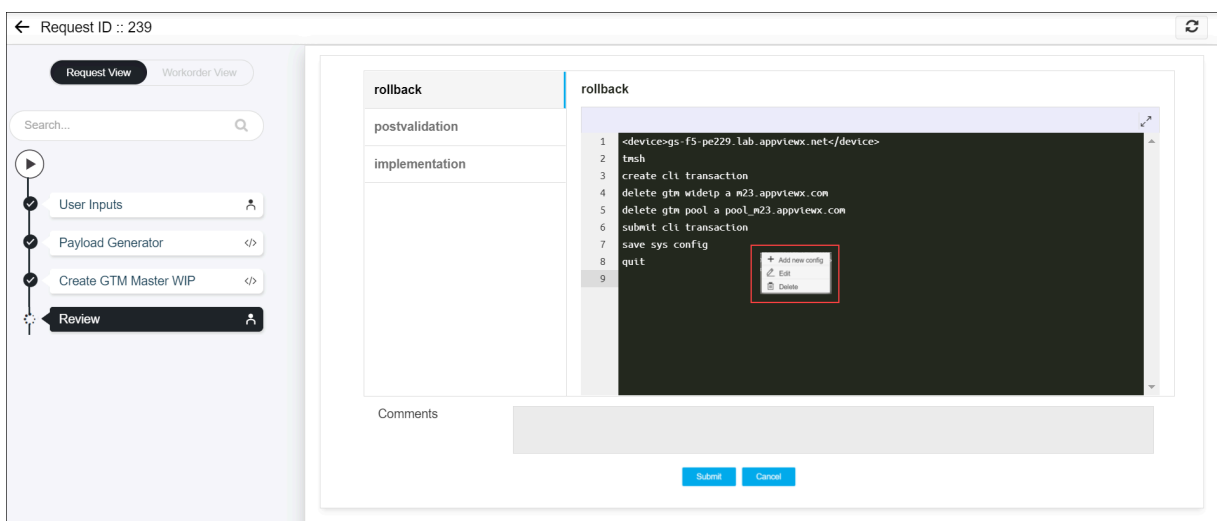
Note:

- 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:



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.




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.

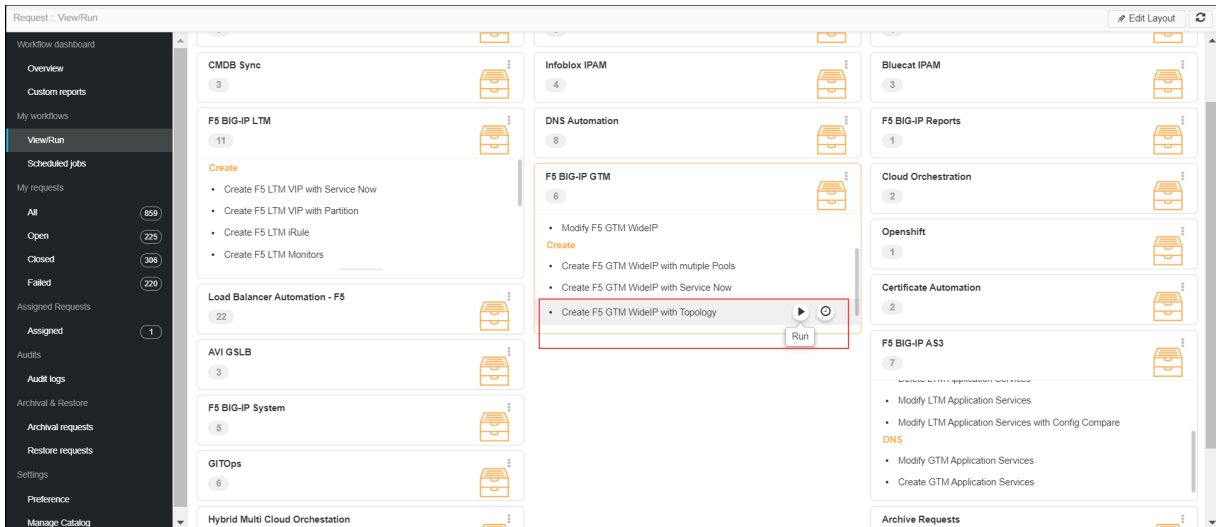
To run this workflow,

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

The Workflow Catalog page appears.

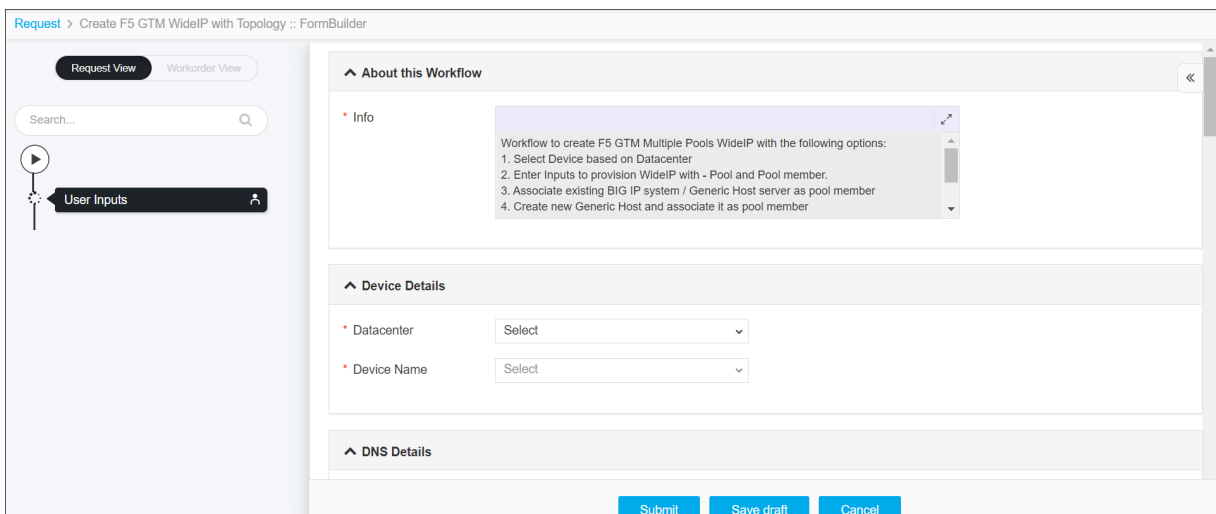
2. In the Workflow Catalog page, hover over the **Create F5 GTM WideIP with Topology** workflow.

The Run and Schedule buttons is shown.

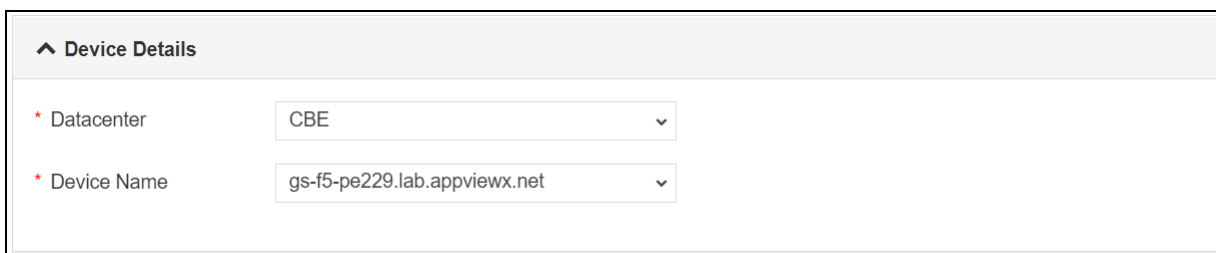


3. Click the Run  button.

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:

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.

^ DNS Details

* Do you want to integrate with DNS No Yes

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	<p>By default, the No option is selected. If you want to integrate with DNS for CNAME record creation, select Yes.</p> <p>When you select Yes, the following fields are displayed:</p> <p> Vendor <input type="text" value="bluecat"/></p> <p>* Device Name <input type="text" value="gs-bluecat.avxlab.com"/></p> <p>* Configuration <input type="text" value="Select"/></p> <p>* View <input type="text" value="Select"/></p> <p>* App Name <input type="text"/></p> <p>Select the Vendor from the drop-down list. The default vendors are Infoblox and bluecat.</p> <p>When you select DNS vendor as Infoblox, you need to provide the following details:</p> <ul style="list-style-type: none"> Select the Device Name from the drop-down list. Enter the App Name for the WideIP name in the format www.<name>.com.

Field	Description
	<p>When you select DNS vendor as bluecat, you need to provide the following details:</p> <div style="border: 1px solid black; padding: 10px; margin: 10px 0;"> <p>^ General Properties</p> <p>* Wide IP Name <input type="text" value="wip345.appviewx.com"/></p> <p>* Type <input type="text" value="A"/></p> <p>Description <input type="text"/></p> <p>State <input type="text" value="enabled"/></p> <p>* Do you want to add Alias ? <input checked="" type="radio"/> No <input type="radio"/> Yes</p> </div> <ul style="list-style-type: none"> • 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.

^ General Properties

* Wide IP Name

* Type

Description

State

* Do you want to add Alias ? No Yes

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	<p>Select the pool/WideIP type. The types are:</p> <ul style="list-style-type: none"> • 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	<p>It allows the system to use this wide IP and its resources for load balancing. The options are:</p> <ul style="list-style-type: none"> • enabled (default) • disabled
Do you want to add Alias ?	<p>Add Alias for the WideIP name. The options are:</p> <ul style="list-style-type: none"> • No (default) • Yes – When you select Yes the following fields are displayed to add alias details: <div style="border: 1px solid #ccc; padding: 10px; margin: 10px 0;"> <p> Alias <input style="width: 200px;" type="text"/></p> <div style="display: flex; justify-content: center; gap: 10px; margin-top: 5px;"> + ✎ ↻ 🗑 </div> <p style="margin-top: 10px;">Alias List</p> <div style="border: 1px solid #ccc; padding: 5px; margin-top: 5px;"> <input style="width: 100%; border: none;" type="text" value="Search..."/> </div> <div style="border: 1px solid #ccc; padding: 5px; margin-top: 5px;"> <input type="checkbox"/> Alias No records found </div> </div> <p>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.</p>

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

Pool

Info

Step 1) Retrieve field values for Health Monitor by clicking on Retrieve Icon next to 'Health Monitor' field

Note: 1. When either of Preferred, Alternate or Fallback is chosen as 'fallback-ip', then user must enter, Fallback IP.

2. Fallback IP is not applicable for type CNAME

* Load Balancing Method: ⓘ

* Persistence: disabled enabled

* Pool Name:

Preferred: ⓘ

Alternate: ⓘ

Fallback: ⓘ




Health Monitor: ⓘ


* Pools

	Pool Name	Preferred	Alternate	Fallback	Fallback IP
No records found					

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.

Field	Description
*Load Balancing Method	<p>The load balancing method is used to select a pool in this WideIP. The methods are:</p> <ul style="list-style-type: none"> • 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	<p>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.</p>
*Pool Name	<p>Enter the pool name.</p>
Preferred	<p>Select the preferred load balancing method. The system tries this method first.</p> <div data-bbox="402 905 1419 1037" style="border: 1px solid #0070C0; border-radius: 10px; padding: 10px; margin-top: 10px;">  Note: When you choose the fallback-ip option, the Fallback IP field will be displayed and you need to input the Fallback IP. </div>
Alternate	<p>Select the alternate load balancing method. The system tries this method if the Preferred method is unsuccessful in picking the WideIP.</p> <div data-bbox="402 1171 1419 1304" style="border: 1px solid #0070C0; border-radius: 10px; padding: 10px; margin-top: 10px;">  Note: When you choose the fallback-ip option, the Fallback IP field will be displayed and you need to input the Fallback IP. </div>
Fallback	<p>Select the alternate load balancing method. The system tries this method if the Preferred and Alternate methods are unsuccessful in picking the WideIP.</p>
Fallback IP	<p>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.</p>
Health Monitor	<p>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</p>


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.

Pool Member Details

Info ↗

Step 1) Retrieve field values for Pool by clicking on Retrieve Icon next to 'Pool' field
 Note: 1. For Pool with type A, Pool members can be Existing Generic Host, New Generic Host or Existing BigIP System
 2. For Pool with type CNAME, pool members can be either existing wide IP or a static wide IP

* Pool 

* Pool Member Type Generic Host Big IP System

* Generic Host Type


* Existing Generic Host

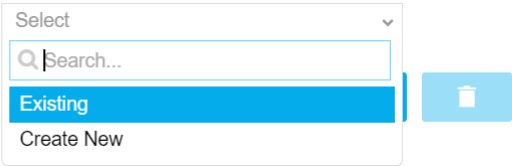
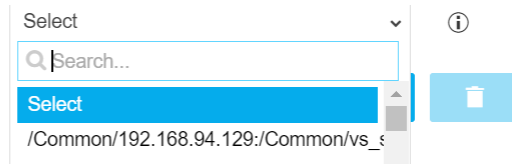

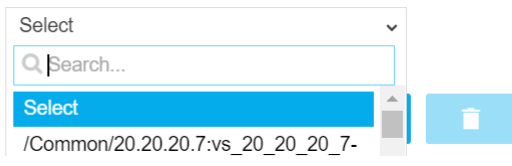

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* Pool Member List ↗

<input type="checkbox"/>	Pool	Pool Member Ty...	Generic Host Ty...	Data Center	I
No records found					

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.


Field	Description
<p>Pool Member Type</p>	<p>Select the pool member types. The pool member types are:</p> <ul style="list-style-type: none"> Generic Host – When you select this pool member type, you get the option to select the Generic Host Type. <ul style="list-style-type: none"> * Generic Host Type  * Pool Member List Big IP System – When you select this pool member type, you get the option to select the configured virtual server. <ul style="list-style-type: none"> * Virtual Server  <div style="border: 1px solid #ccc; padding: 5px; margin-top: 10px;"> <p> Note: It takes a while to load the servers.</p> </div>
<p>*Generic Host Type</p>	<p>When the pool member type is selected as Generic Host, you need to select the type of generic host. The generic host types are:</p> <ul style="list-style-type: none"> Existing – This option allows to select the existing host. When you select this option, the existing generic host is displayed. <ul style="list-style-type: none"> * Existing Generic Host  Create New – This option allows you to create a generic host. When you select this, the following fields are required: <ul style="list-style-type: none"> * 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.
<p>*Virtual Server</p>	<p>When the pool member type is selected as Big IP System. Select a virtual server from the dropdown list.</p>
<p>*Pool Member List</p>	<p>Enter the IP address of the pool member. And then click the Add  button. Any number of pool numbers can be added.</p>

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

^ Topology

Info ↗

Step 1) Retrieve field values for Request Source by clicking on Retrieve Icon next to 'Request Source' field
 Note: 1. Request Source is of type 'Region' and 'Destination' is of type 'Pool'

* Request Source (Region) 

* Destination (Pool)


* Weight


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* Topology Record ... ↗

<input type="checkbox"/>	Request Source (Region)	Destination (Pool)	Weight
No records found			

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

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.

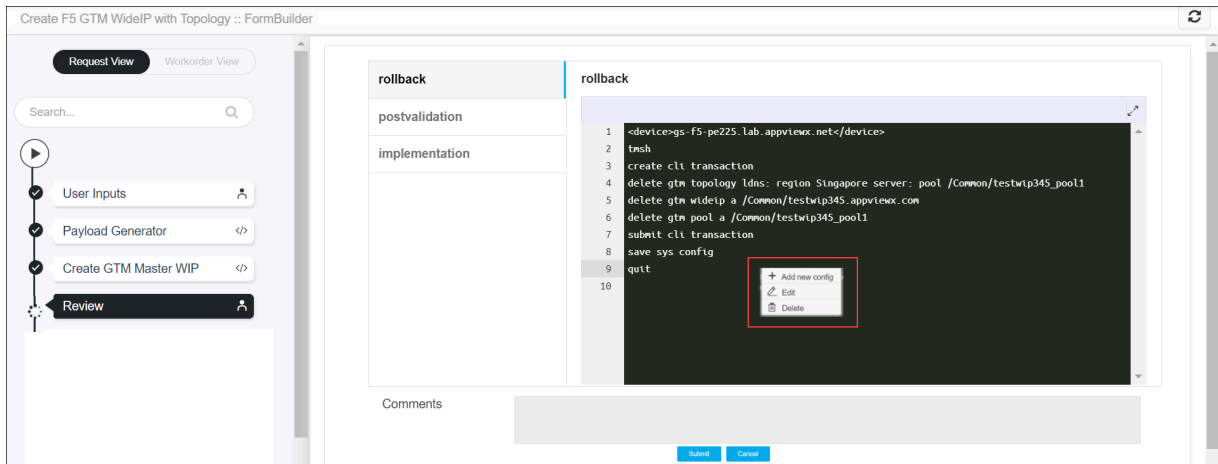


Note:

- 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:

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.

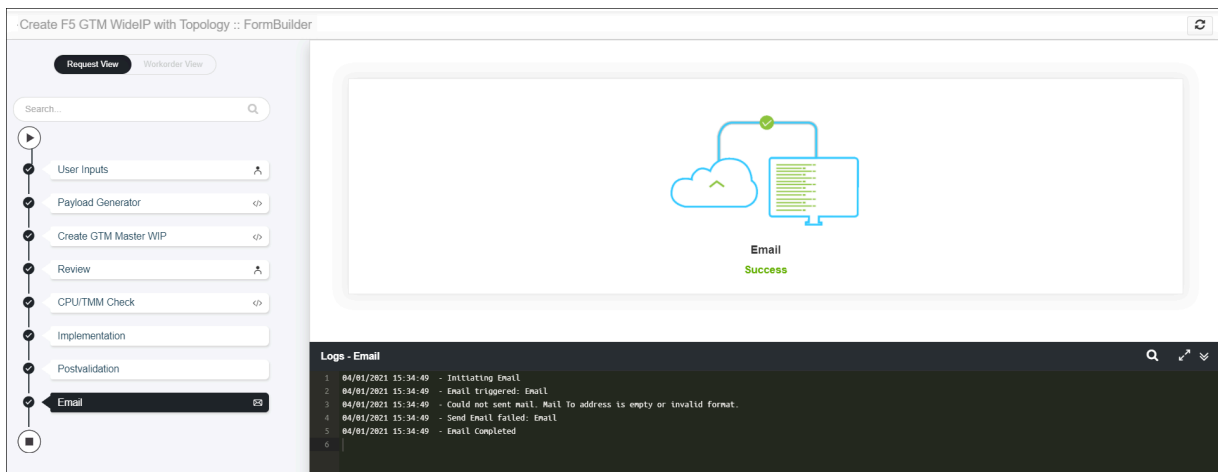


Note: To stop running the workflow creation, click **Cancel**.

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.






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.

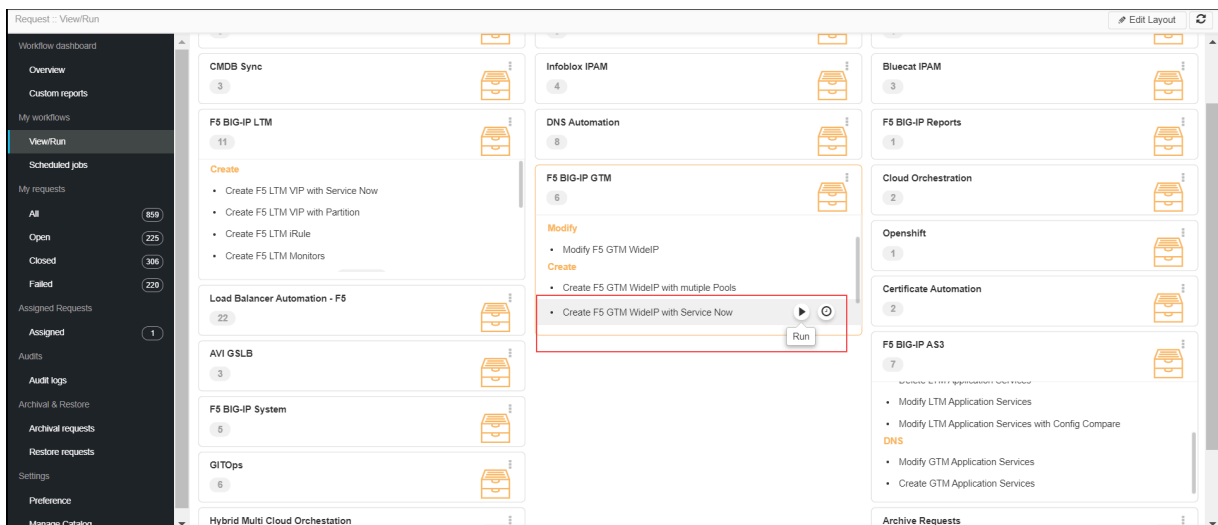
To run this workflow,


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

The Workflow Catalog page appears.

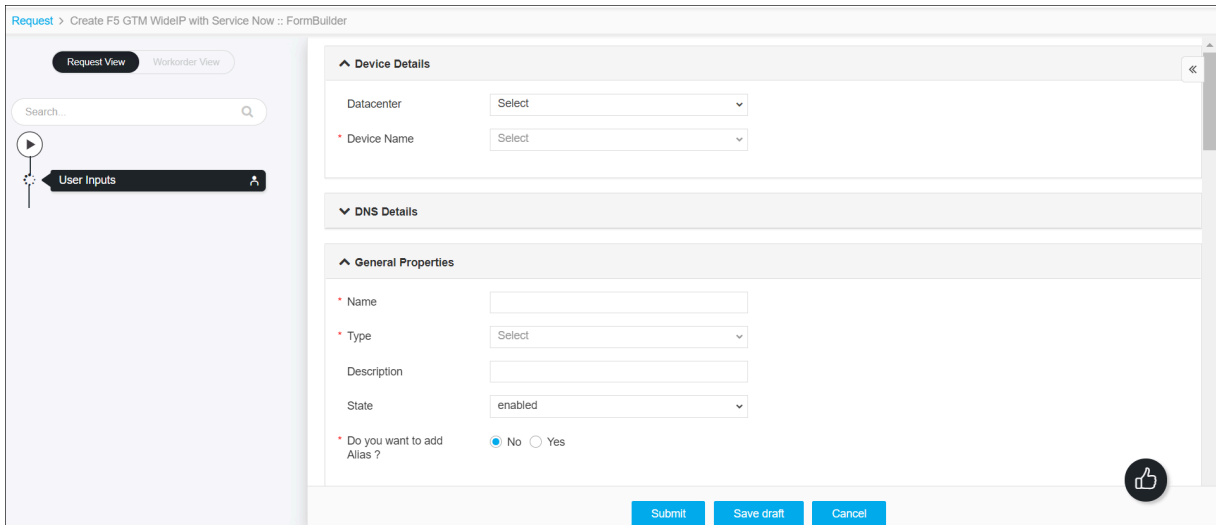
2. In the Workflow Catalog page, hover over the **Create F5 GTM WideIP with Service Now** workflow.

The Run and Schedule buttons are shown.



3. Click the  **Run** button.

The Form Input page opens:



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.

^ **DNS Details**

* Do you want to integrate with DNS No Yes

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

Field	Description
<p>*Do you want to integrate with DNS</p>	<p>By default, the No option is selected. If you want to integrate with DNS for CNAME record creation, select Yes.</p> <p>When you select Yes, the following fields are displayed:</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p>* Do you want to integrate with DNS <input type="radio"/> No <input checked="" type="radio"/> Yes</p> <p>* Vendor <input type="text" value="Select"/></p> <p>* Device Name <input type="text" value="Select"/></p> <p>* App Name <input type="text"/></p> </div> <p>Select the Vendor from the drop-down list. The default vendors are: Infoblox and bluecat.</p> <p>When you select DNS vendor as Infoblox, you need to provide the following details:</p> <ul style="list-style-type: none"> Select the Device Name from the drop-down list. Enter the App Name for the WideIP name. <p>When you select DNS vendor as bluecat, you need to provide the following details:</p> <div style="margin: 10px 0;"> <p>* Vendor <input type="text" value="bluecat"/></p> <p>* Device Name <input type="text" value="gs-bluecat.avxlab.com"/></p> <p>* Configuration <input type="text" value="Select"/></p> <p>* View <input type="text" value="Select"/></p> <p>* App Name <input type="text" value=""/> ×</p> </div> <ul style="list-style-type: none"> Select the Device Name from the drop-down list. Select the Configuration from the drop-down list.

Field	Description
	<ul style="list-style-type: none"> • Select the View for the selected configuration. The options are displayed based on the selected configuration. • Enter the App Name for the WideIP name.

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

^ General Properties

* Name

* Type ▼

Description

State ▼

* Do you want to add Alias ? No Yes

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	<p>Select the pool/WideIP type. The types are:</p> <ul style="list-style-type: none"> • 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 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:

Field	Description
	<ul style="list-style-type: none"> • enabled (default) • disabled
<p>*Do you want to add Alias ?</p>	<p>Add Alias for the WideIP name. The options are:</p> <ul style="list-style-type: none"> • No (default) • Yes – When you select Yes the following fields are displayed to add alias details: <p>* Alias <input type="text"/></p> <p style="text-align: center;"> <input type="button" value="+"/> <input type="button" value="✎"/> <input type="button" value="C"/> <input type="button" value="🗑"/> </p> <p>Alias List ↗</p> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 10px;"> <input type="text" value="Search..."/> </div> <div style="border: 1px solid #ccc; padding: 5px;"> <input type="checkbox"/> Alias No records found </div> <p>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 <input type="button" value="+"/> to add an alias. The added aliases are displayed under the Alias List. You can manage the added alias(es) to the list.</p>

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

Pool

Info

Step 1) Retrieve field values for Health Monitor by clicking on Retrieve Icon next to 'Health Monitor' field

Note: 1. When either of Preferred, Alternate or Fallback is chosen as 'fallback-ip', then user must enter, Fallback IP.

2. Fallback IP is not applicable for type CNAME

* Load Balancing Method: ⓘ

* Persistence: disabled enabled

* Pool Name:

Preferred: ⓘ

Alternate: ⓘ

Fallback: ⓘ





Health Monitor: ⓘ

* Pools

<input type="checkbox"/>	Pool Name	Preferred	Alternate	Fallback	Fallback IP	Health M
<input type="checkbox"/>	wideipavc	round-robin	round-robin	return-to-dns		

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	<p>The load balancing method is used to select a pool in this WideIP. The methods are:</p> <ul style="list-style-type: none"> • 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


Field	Description
	<p>is available. If the pool becomes unavailable for any reason, the system then repeatedly selects the next pool in the list, and so on.</p> <ul style="list-style-type: none"> • 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	<p>Select the preferred load balancing method. The system tries this method first.</p> <div data-bbox="402 716 1419 848" style="border: 1px solid #00a0e3; border-radius: 10px; padding: 10px; margin-top: 10px;">  Note: When you choose the fallback-ip option, the Fallback IP field will be displayed and you need to input the Fallback IP. </div>
Alternate	<p>Select the alternate load balancing method. The system tries this method if the Preferred method is unsuccessful in picking the WideIP.</p> <div data-bbox="402 982 1419 1115" style="border: 1px solid #00a0e3; border-radius: 10px; padding: 10px; margin-top: 10px;">  Note: When you choose the fallback-ip option, the Fallback IP field will be displayed and you need to input the Fallback IP. </div>
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	<p>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.</p>
*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.

Pool Member Details

Info

Step 1) Retrieve field values for Pool by clicking on Retrieve Icon next to 'Pool' field
 Note: 1. For Pool with type A, Pool members can be Existing Generic Host, New Generic Host or Existing BigIP System
 2. For Pool with type CNAME, pool members can be either existing wide IP or a static wide IP

* Pool 

* Pool Member Type Generic Host Big IP System

* Generic Host Type


* Existing Generic Host



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* Pool Member List

☐	Pool	Pool Member Ty...	Generic Host Ty...	Data Center	Pool Member...	Port
No records found						

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: <ul style="list-style-type: none"> • Generic Host – When you select this pool member type, you get the option to select the Generic Host Type

Field	Description
	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>* Generic Host Type</p> <p>* Real Member List</p> <ul style="list-style-type: none"> • Big IP System – When you select this pool member type, you get the option to select the configured virtual <p>* Virtual Server</p> </div> <div style="width: 50%;"> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 10px;"> <p>Select</p> <input type="text" value="Search..."/> <p>Existing</p> <p>Create New</p> </div> <div style="border: 1px solid #ccc; padding: 5px;"> <p>Select</p> <input type="text" value="Search..."/> <p>Select</p> <p>/Common/192.168.94.129</p> </div> </div> </div> <div style="border: 1px solid #ccc; padding: 5px; margin-top: 10px; background-color: #e0f2f1;"> <p> Note: It takes a while to load the servers.</p> </div>
<p>*Generic Host Type</p>	<p>When the pool member type is selected as Generic Host, you need to select the type of generic host. The ge</p> <p>Existing – This option allows to select the existing host. When you select this option, the existing generic hos</p> <div style="display: flex; align-items: flex-start; margin-top: 20px;"> <div style="width: 30%;"> <p>* Existing Generic Host</p> </div> <div style="width: 40%;"> <div style="border: 1px solid #ccc; padding: 5px;"> <p>Select ▼</p> <input type="text" value="Search..."/> <p>Select</p> <p>/Common/20.20.20.7:vs_20_20_20_7-</p> </div> <div style="width: 20px; text-align: center; margin: 0 5px;"> ▲ ▼ </div> <div style="width: 30px; height: 30px; background-color: #a0c4ff; border: 1px solid #ccc; display: flex; align-items: center; justify-content: center;">  </div> </div> </div>

Field	Description
	<p>Create New – This option allows you to create a generic host. When you select this, the following fields are required:</p> <ul style="list-style-type: none"> • *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 can be added.

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

Topology

Info ↕

Step 1) Retrieve field values for Request Source by clicking on Retrieve Icon next to 'Request Source' field
 Note: 1. Request Source is of type 'Region' and 'Destination' is of type 'Pool'

* Request Source (Region) 🔍

* Destination (Pool)

* Weight



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* Topology Record Details ↕

<input type="checkbox"/>	Request Source (Region)	Destination (Pool)	Weight
No records found			

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.

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.

^ Change Management

* Do you want to integrate ServiceNow? No Yes

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

Field	Description
Do you want to integrate ServiceNow?	<p>By default, the No option is selected. If you want to integrate with ServiceNow, select Yes and provide the following details:</p> <p>Timezone <input type="text" value="Select"/></p> <p> Start Time <input type="text"/></p> <p>* End Time <input type="text"/></p> <ul style="list-style-type: none"> • 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: <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.

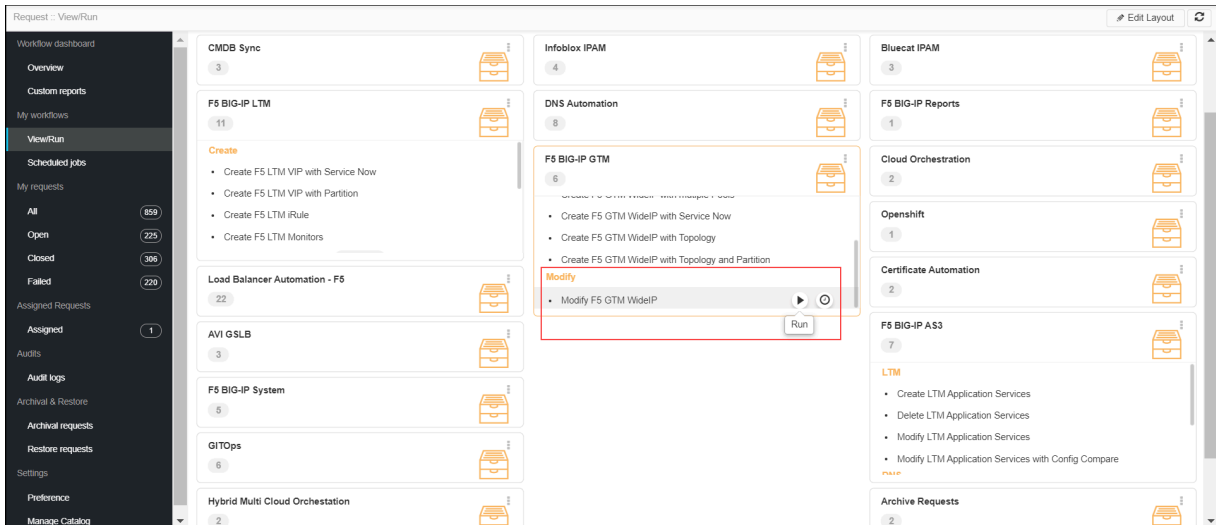
To run this workflow,

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

The Workflow Catalog page appears.

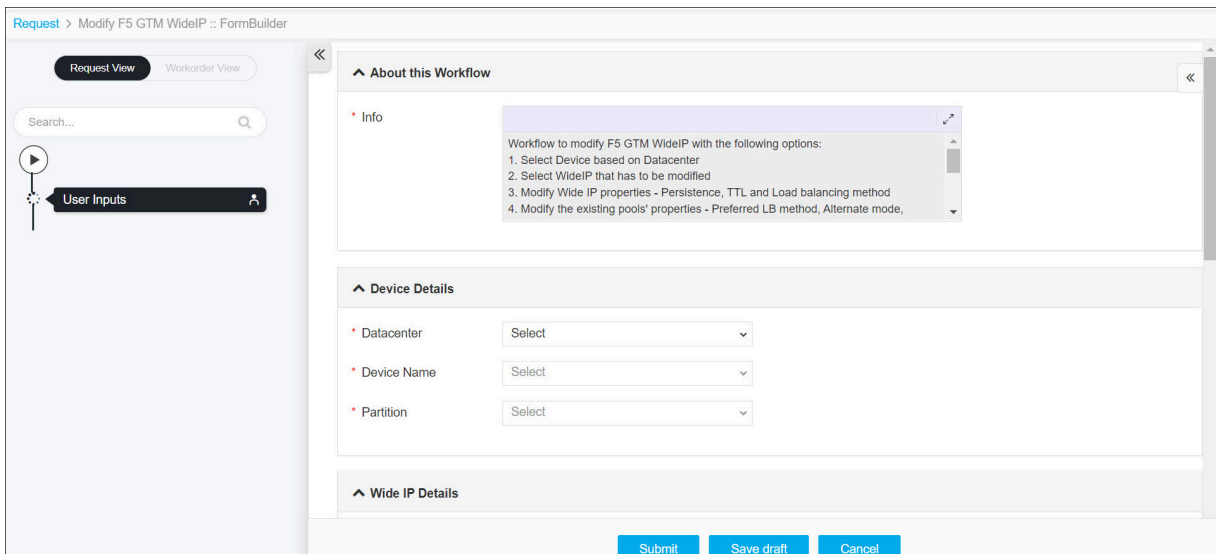
2. In the Workflow Catalog page, hover over the **Modify F5 GTM WideIP** workflow.

The Run and Schedule buttons are shown.



3. Click the  **Run** button.

The Form Input page opens:



The screenshot shows the 'Request > Modify F5 GTM WideIP :: FormBuilder' page. The top navigation bar includes 'Request View' and 'Workorder View'. Below the navigation bar is a search bar and a 'User Inputs' section with a play icon. The main content area is divided into sections: 'About this Workflow' (containing an 'Info' section with a list of options), 'Device Details' (containing dropdown menus for 'Datacenter', 'Device Name', and 'Partition'), and 'Wide IP Details'. At the bottom of the page are three buttons: 'Submit', 'Save draft', and 'Cancel'.

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

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.

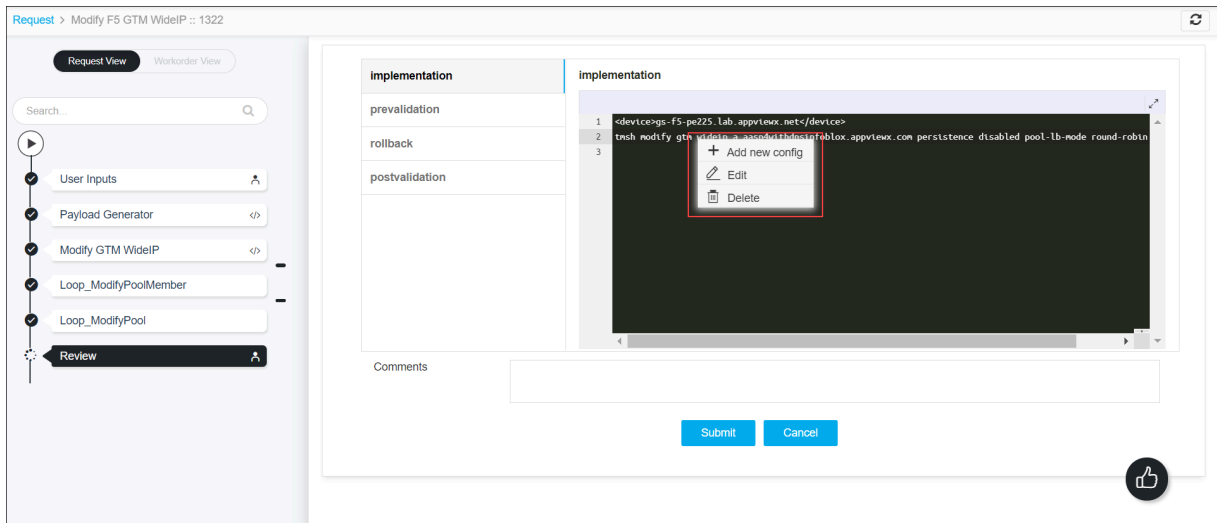


Note:

- 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:

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.

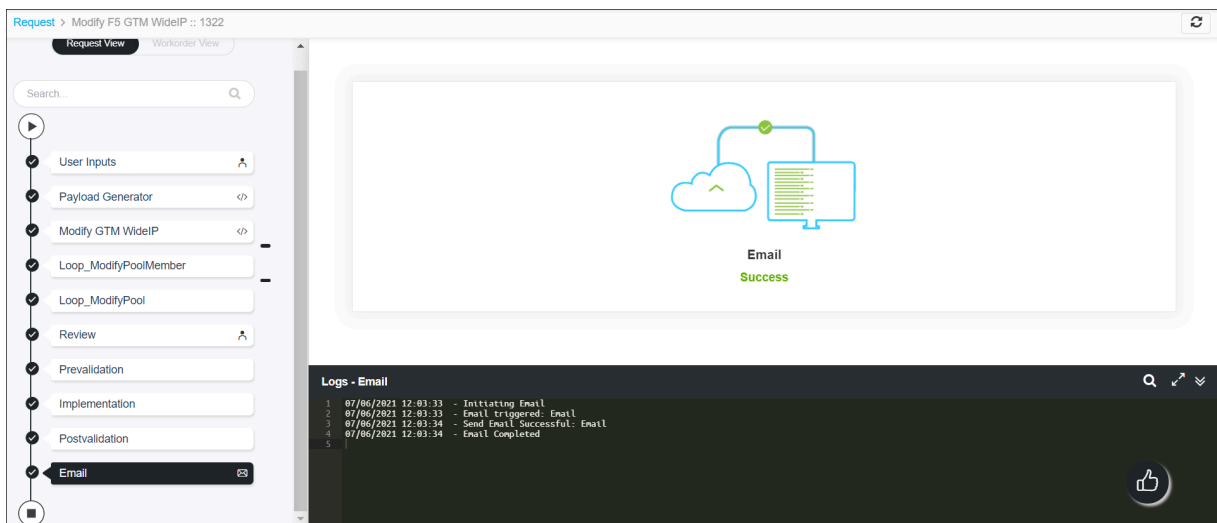


Note: To stop running the workflow creation, click **Cancel**.

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.






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.

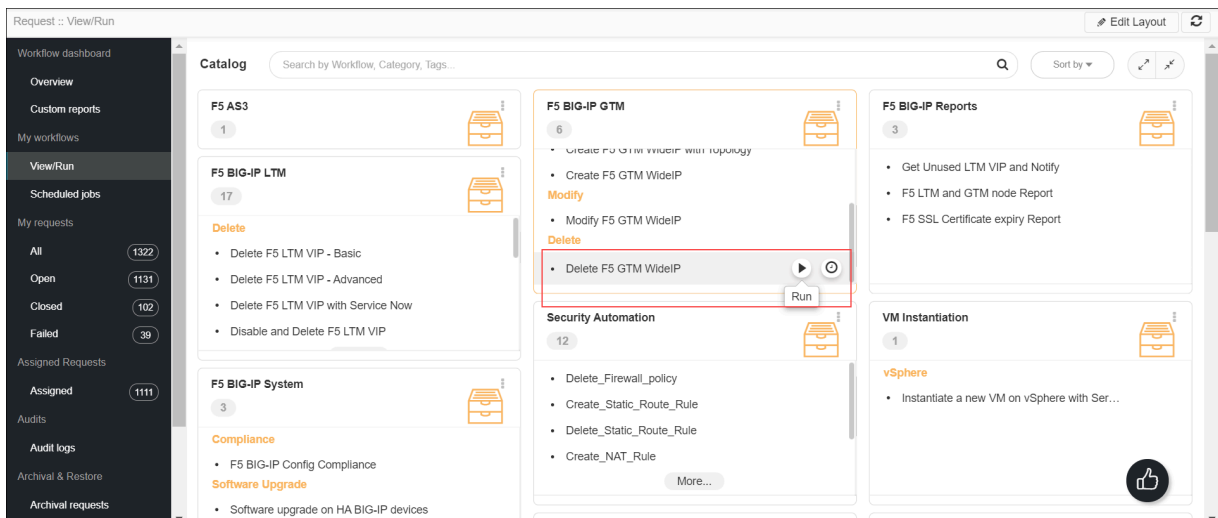
To run this workflow,


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.

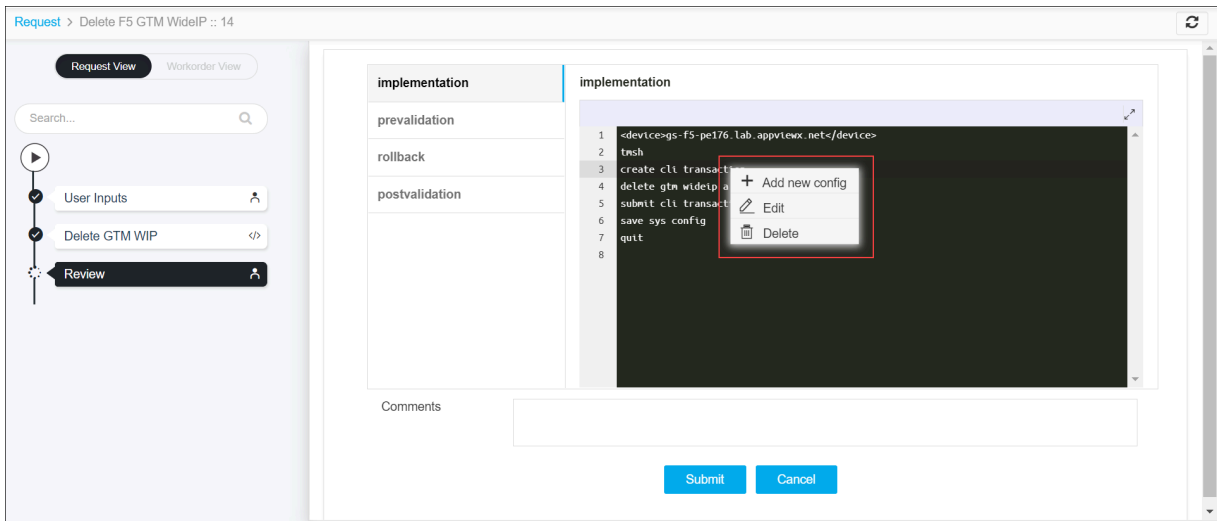
The Run and Schedule buttons are shown.



3. Click the Run  button.

The Form Input page opens:

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.

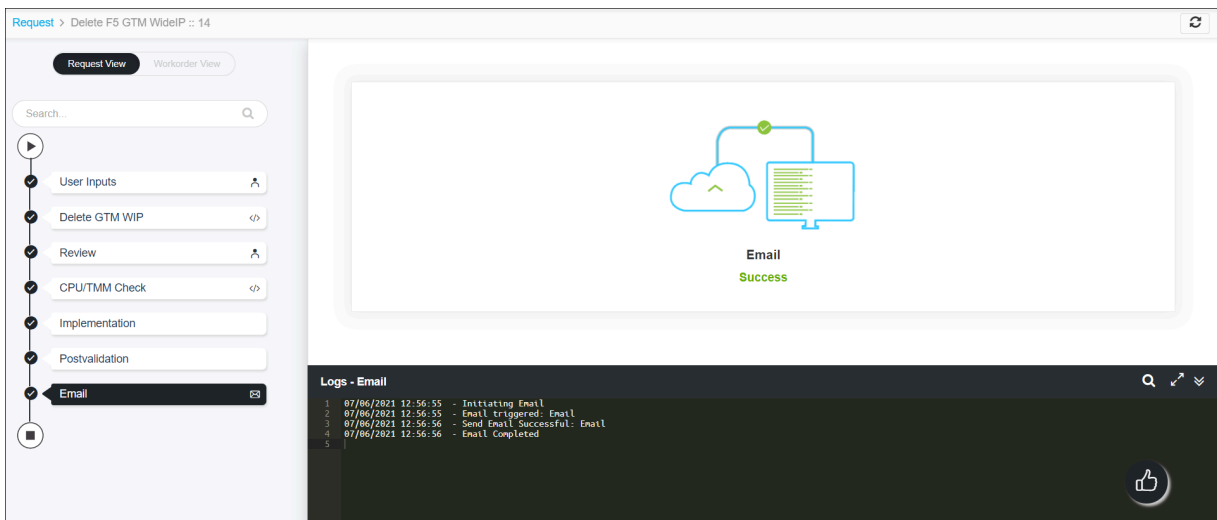


8. After the review, click the **Submit** button.
The Confirmation popup opens.



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.





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.

Chapter 5: F5 BIG-IP System

- Automate F5 BIG-IP Upgrades
- F5 BIG-IP Software Upgrade on Standalone Devices
- Pre-requisite
- Running Software Upgrade on Standalone Devices
- F5 BIG-IP Software Upgrade on HA Devices
- Compliance

Automate F5 BIG-IP Upgrades

The workflow grouped under this sub-category is:

- F5 BIG-IP software upgrade on Standalone F5 devices
- Software Upgrade on F5 HA Devices

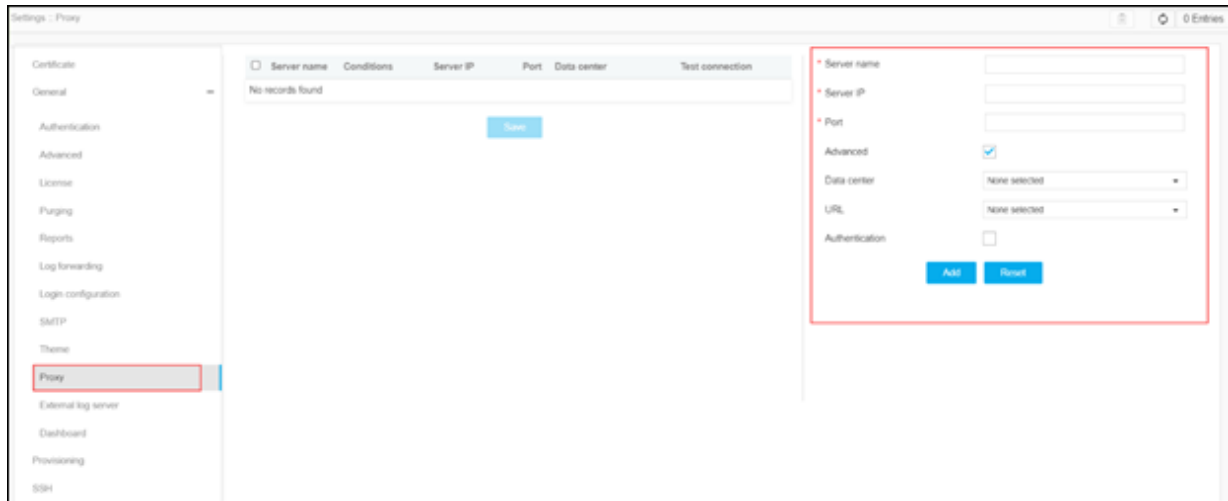
F5 BIG-IP Software Upgrade on Standalone Devices

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 ISO files for this software upgrade must be available in path/to/Appviewx-home/appviewx/appviewx_dependencies/vw/dependencies/bigip_images. In a multi-node instance, ensure ISO files are uploaded in all nodes.

- For License reactivation, the F5 device should have Internet access.
- 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**.

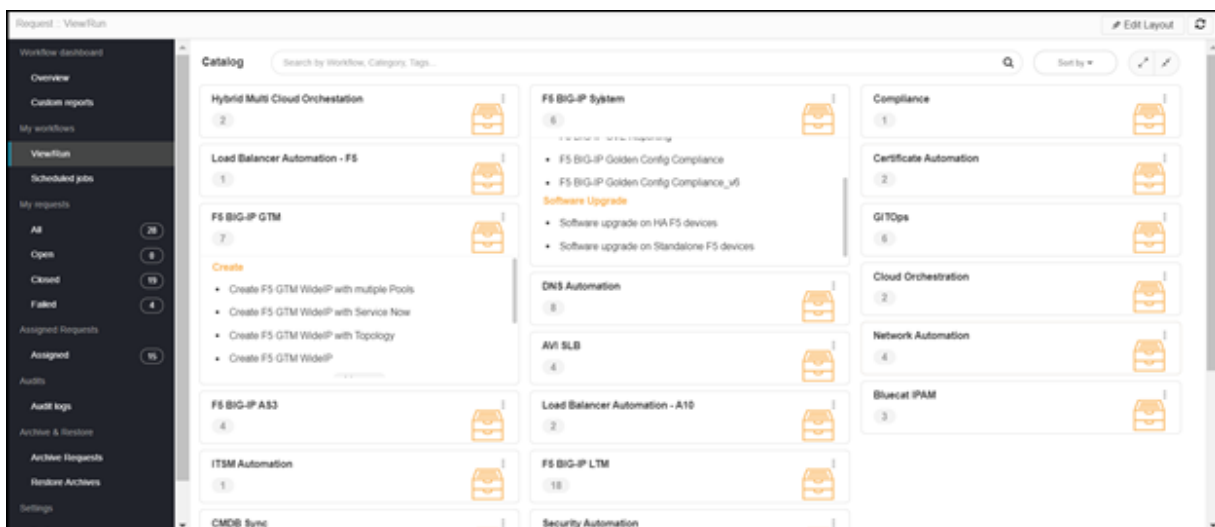


Running Software Upgrade on Standalone Devices

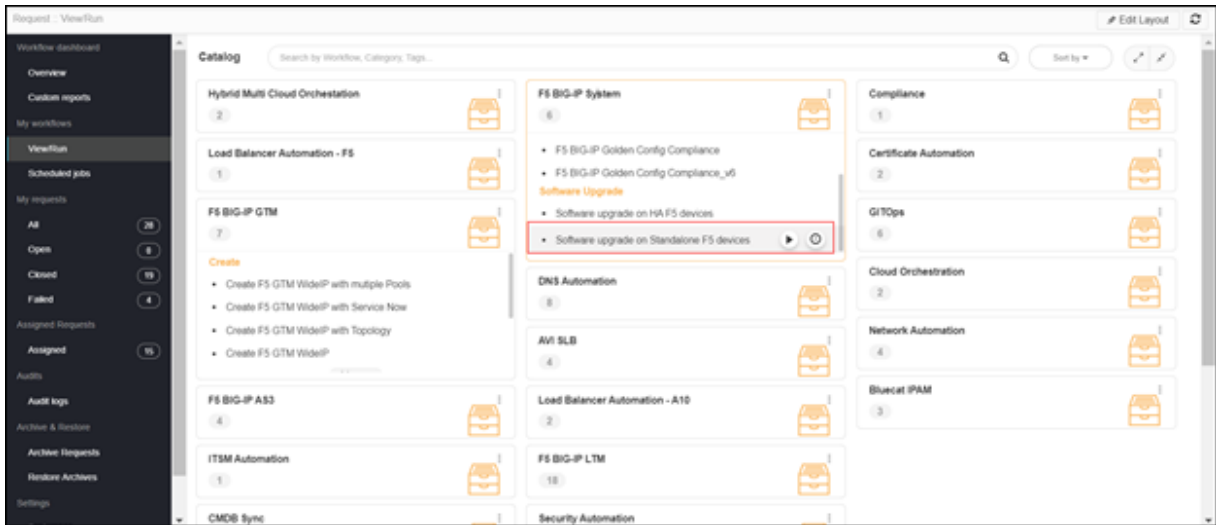
To run this workflow,

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

The ADC OOB workflows are listed.



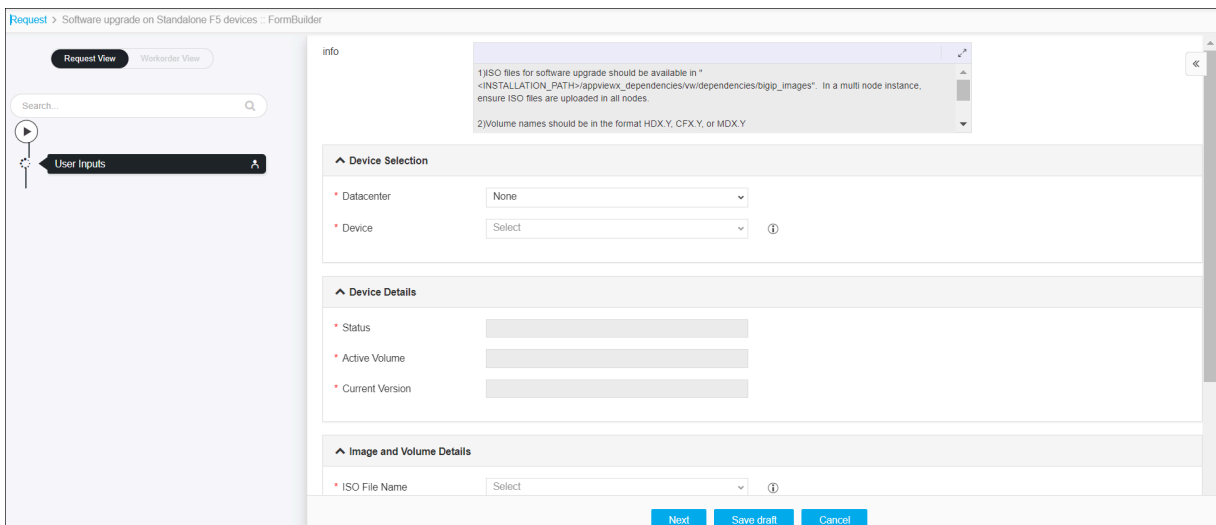
2. In the Workflow Catalog page, hover over the **Software upgrade on Standalone F5 devices** workflow.



The Run and Schedule buttons are shown.

3. Click the Run  button.

The Form Input page opens:



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

^ Device Selection

* Datacenter

* Device ⓘ

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.

^ Device Details

* Status

* Active Volume

* Current Version |

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

^ Image and Volume Details

* SFTP No Yes (i)

* ISO File Name (i)

* New Volume Name (i)

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

Field	Description
*SFTP	SFTP option to upload images. <ul style="list-style-type: none"> • No (default) - select a ISO file from the dropdown list. • Yes - retrieve the ISO file from SSH File Transfer Protocol (SFTP) server, and then provide the ISO file path. Make sure to onboard the server in AppViewX Device Inventory > Device > Others and provide the path name in the ISO File Path field.
*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 Generate Qkview File. The possible values for Generate Qkview File are:

- **No** – This option does not allow to generate Qkview file. By default, this option is selected.
- **Yes** – Select this option to generate Qkview file. When you select this option, the Upload to IHealth Portal field is displayed.

* Upload to iHealth Portal No Yes

- Select **Yes**, if you want to upload the Qkview file to IHealth portal.

The **iHealth Case Number** field is displayed.

iHealth Case Number	<input type="text"/>
---------------------	----------------------

- (Optional) Add Ihealth ticket number in the **iHealth Case Number** field.

iHealth Case Number	<input type="text" value="1-1234"/>
---------------------	-------------------------------------

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.

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.

The Confirmation popup opens.

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

15. After the **Object Count Comparison**, click the **Proceed** button.

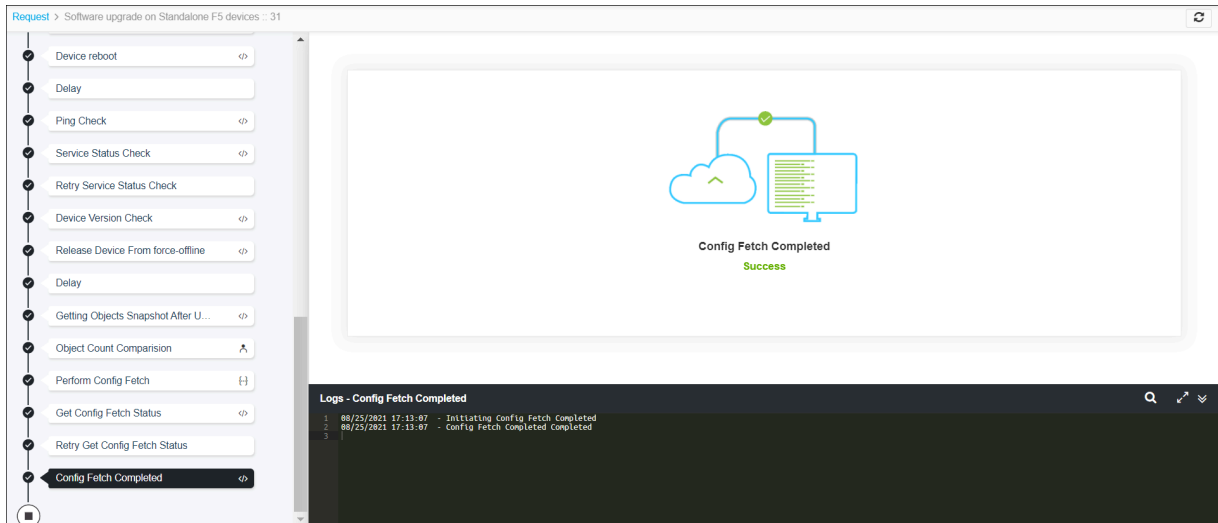
The screenshot shows a workflow review screen for a software upgrade on standalone F5 devices. The workflow steps are listed on the left, and a 'Review' window is open in the center, displaying a table of object counts before the software upgrade.

Network #	Object Type	total	available	unavailable	offline	unkn
1	Virtual Server	4	0(0 Disabled)	0(0 Disabled)	3(1 Disabled)	0(0 Dis
2	Pools	4	0(0 Disabled)	0(0 Disabled)	4(0 Disabled)	0(0 Dis
3	pool Members	6	0(0 Disabled)	0(0 Disabled)	5(1 Disabled)	0(0 Dis
4	Nodes	6	0(0 Disabled)	0(0 Disabled)	0(0 Disabled)	0(0 Dis
5	State	6	0(0 Disabled)	0(0 Disabled)	0(0 Disabled)	0(0 Dis

The Confirmation popup opens.

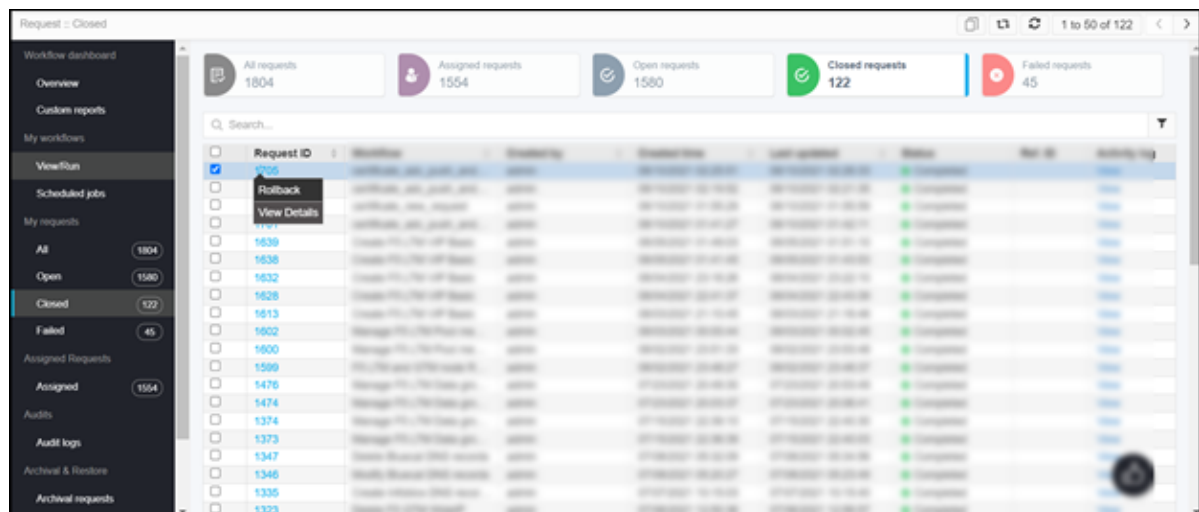
16. Click **Ok** to submit the form.

The implementation process for software upgrade is completed:



17. 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.

F5 BIG-IP Software Upgrade on HA Devices

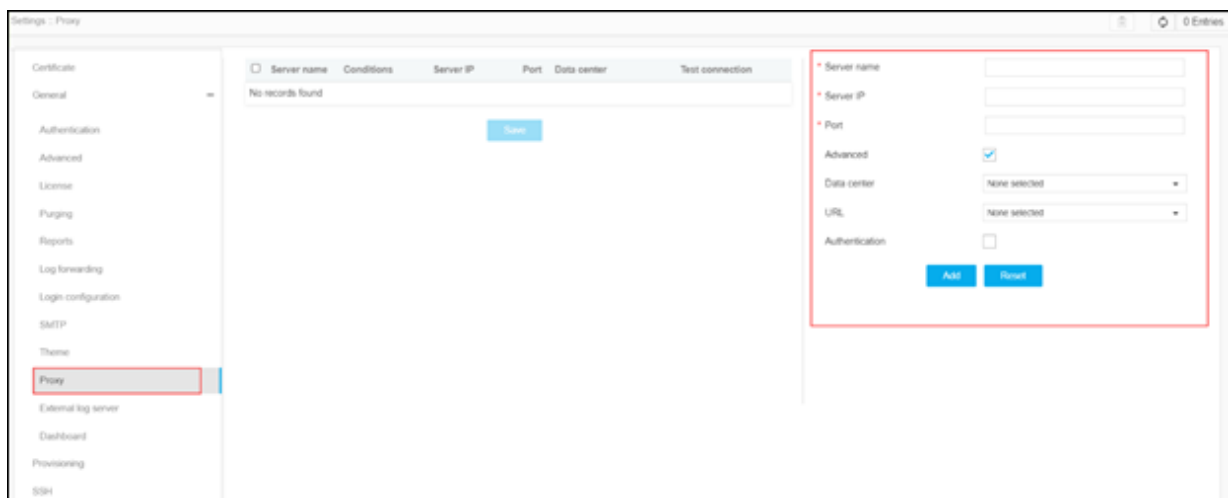
This workflow upgrades the BIG-IP version from the existing version to a higher version as recommended by HA F5. For more information, refer to <https://support.f5.com/csp/article/K13845>.

- [Pre-requisite](#)
- [Running Software Upgrade on F5 HA Devices](#)

Pre-requisite


• The ISO files for this software upgrade must be available in path/to/Appviewx-home/appviewx/appviewx_dependencies/vw/dependencies/bigip_images. In a multi-node instance, ensure ISO files are uploaded in all nodes.

- For License reactivation, the F5 device should have Internet access.
- 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**.

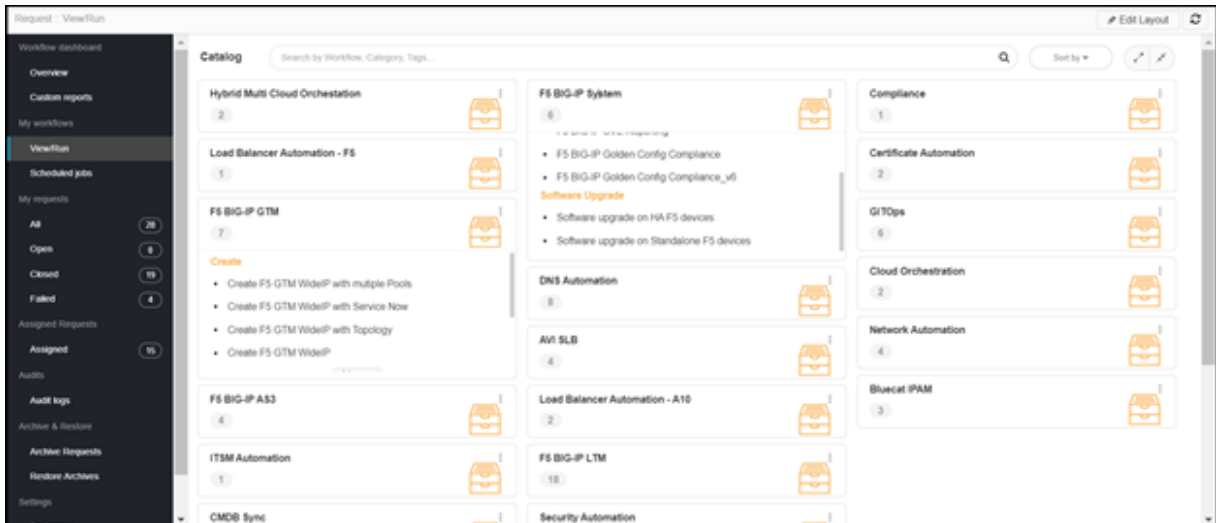


Running Software Upgrade on F5 HA Devices

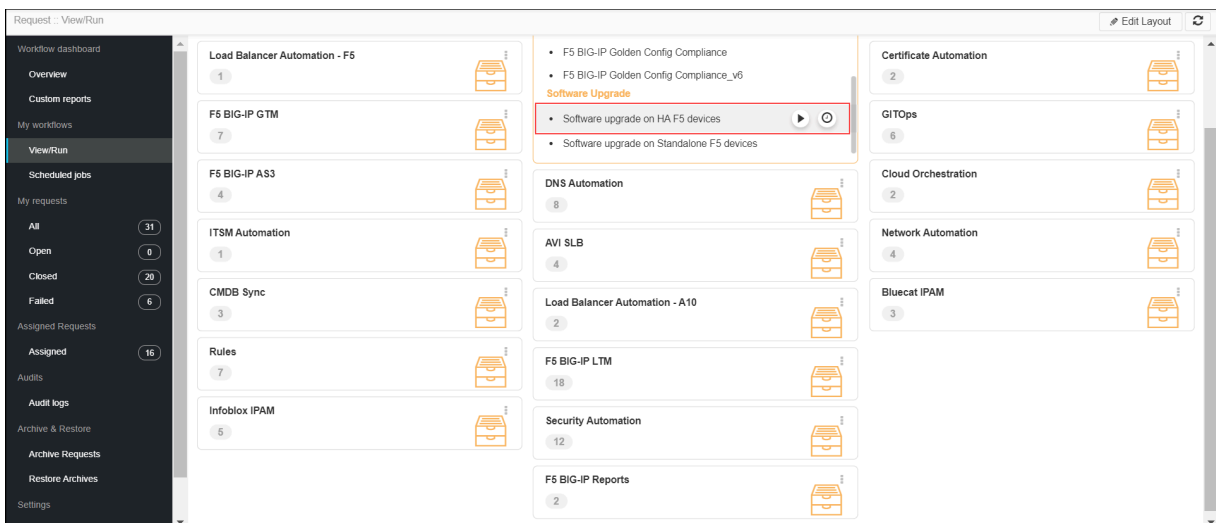
To run this workflow,

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.

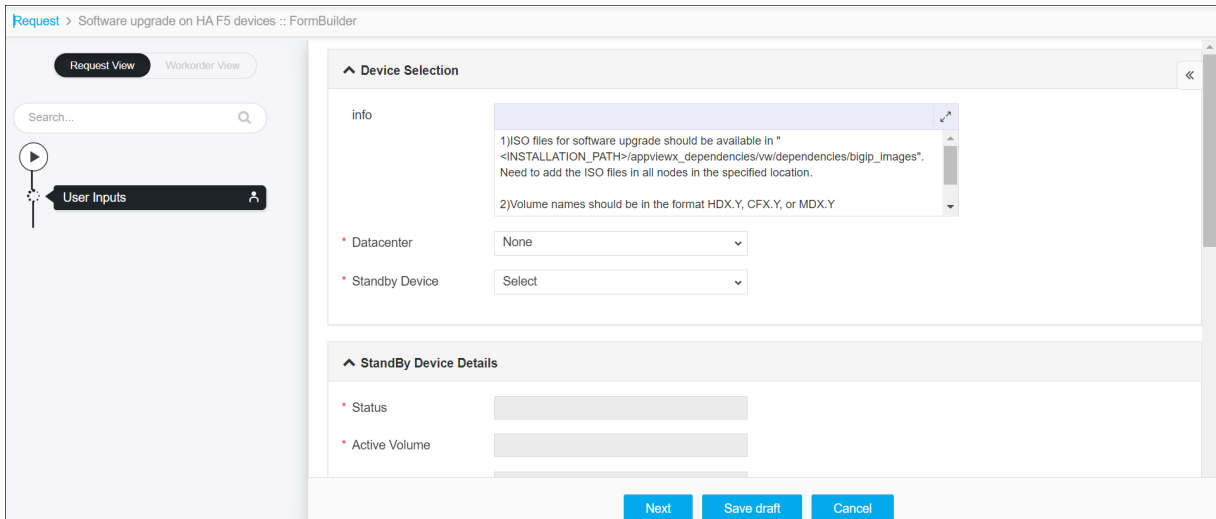


The Run and Schedule buttons are shown.

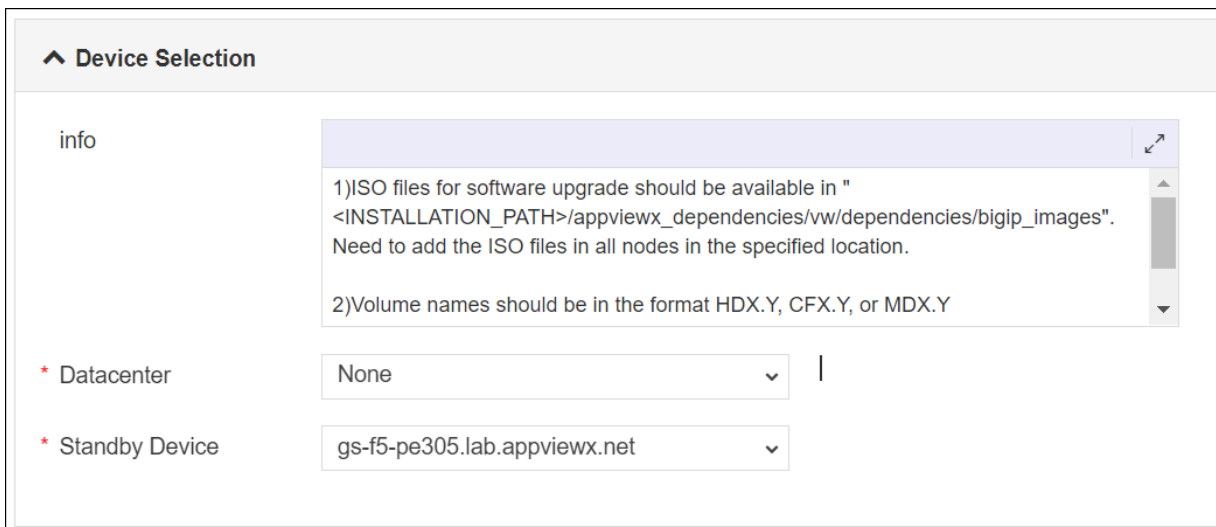


3. Click the Run button.

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 .
*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.

^ StandBy Device Details	
* Status	standby
* Active Volume	HD1.6
* Current Version	13.1.4 Build 0.0.3


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

^ Active Device Details	
* Active Device	gs-f5-pe306.lab.appviewx.net
* Status	active
* Active Volume	HD1.6
* Current Version	13.1.4 Build 0.0.3

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

^ Image and Volume Details

SFTP No Yes (i)

* ISO File Name (i) 

* New Volume Name (i)

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

Field	Description
*SFTP	SFTP option to upload images. <ul style="list-style-type: none"> No (default) - select a ISO file from the dropdown list. Yes - retrieve the ISO file from SSH File Transfer Protocol (SFTP) server, and then provide the ISO file path. Make sure to onboard the server in AppViewX Device Inventory > Device > Others and provide the path name in the ISO File Path field.
*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.

10. Select **Generate Qkview File**. The possible values for Generate Qkview File are:

- No** – This option does not allow to generate Qkview file. By default, this option is selected.
- Yes** – Select this option to generate Qkview file. When you select this option, the Upload to IHealth Portal field is displayed.

* Upload to iHealth Portal No Yes

- Select **Yes**, if you want to upload the Qkview file to IHealth portal.

The Ihealth Case Number field is displayed.

A screenshot of a form with a label 'iHealth Case Number' and an empty text input field.

- (Optional) Add Ihealth ticket number in the **Ihealth Case Number** field.

A screenshot of the same form as above, but with the text '1-1234' entered into the 'iHealth Case Number' field.

11. 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

12. Click the **Next** button.

A screenshot of a software upgrade form titled 'Request > Software upgrade on HA F5 devices :: FormBuilder'. The form includes a sidebar with 'Request View' and 'Workorder View' tabs, a search bar, and a 'User Inputs' section. The main form area shows 'Current Version' as '13.1.4 Build 0.0.3'. Under 'Image and Volume Details', there are fields for 'ISO File Name' (BIGIP-14.1.4-0.0.11.iso) and 'New Volume Name' (HD1.7). Below these are radio buttons for 'Generate Qkview File', 'Upload to IHealth Portal', and 'Reactivate License Automatically', all with 'Yes' selected. The 'iHealth Case Number' field contains '1-1234'. At the bottom, there are three buttons: 'Next', 'Save draft', and 'Cancel'.

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.

13. 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.

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

The screenshot shows the 'Request View' interface for a workflow titled 'Software upgrade on HA F5 devices :: 3'. The workflow progress bar on the left shows steps: User Inputs, Initializing, Performing F5 HA Sync, Delay Performing F5 HA Sync, Perform Config Fetch, Get Config Fetch Status, Retry Get Config Fetch Status, Active Device Config Fetch, and Perform Config Fetch. A 'Review' window is open, displaying a terminal output with a table:

```

1
2
3
4 Network Map
5 -----
6 Object Type      total      available      unavailable      offline
7 Virtual Server   1          0(0 Disabled)  0(0 Disabled)    1(0 Disabled)
8 Pools            1          0(0 Disabled)  0(0 Disabled)    1(0 Disabled)
9 Pool Members    1          0(0 Disabled)  0(0 Disabled)    1(0 Disabled)
10 Nodes           1          0(0 Disabled)  0(0 Disabled)    0(0 Disabled)
11 Ibaic           0

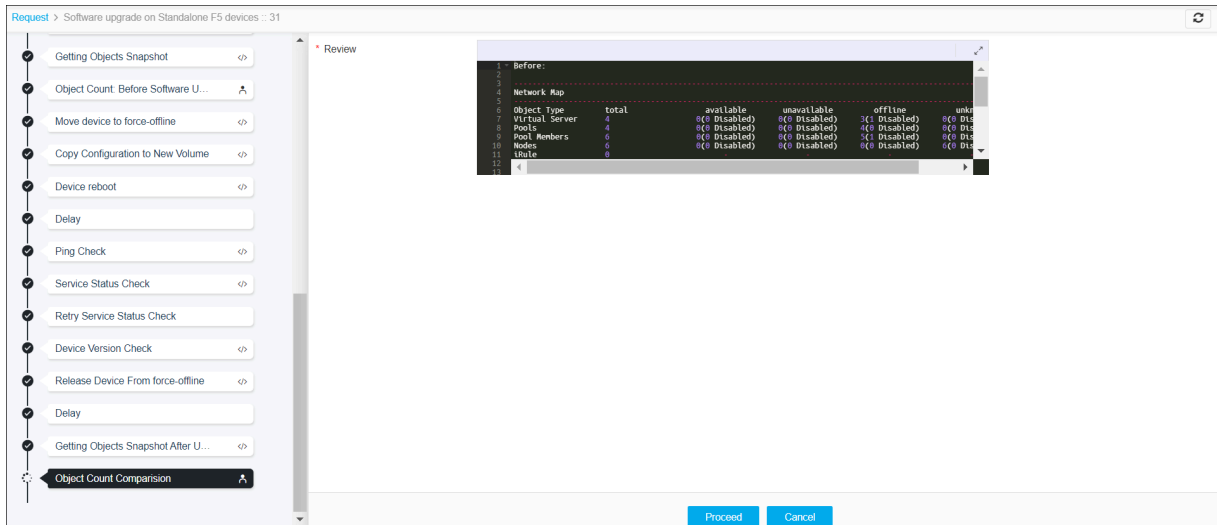
```

At the bottom of the interface, there are 'Proceed' and 'Cancel' buttons.

The Confirmation popup opens.

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

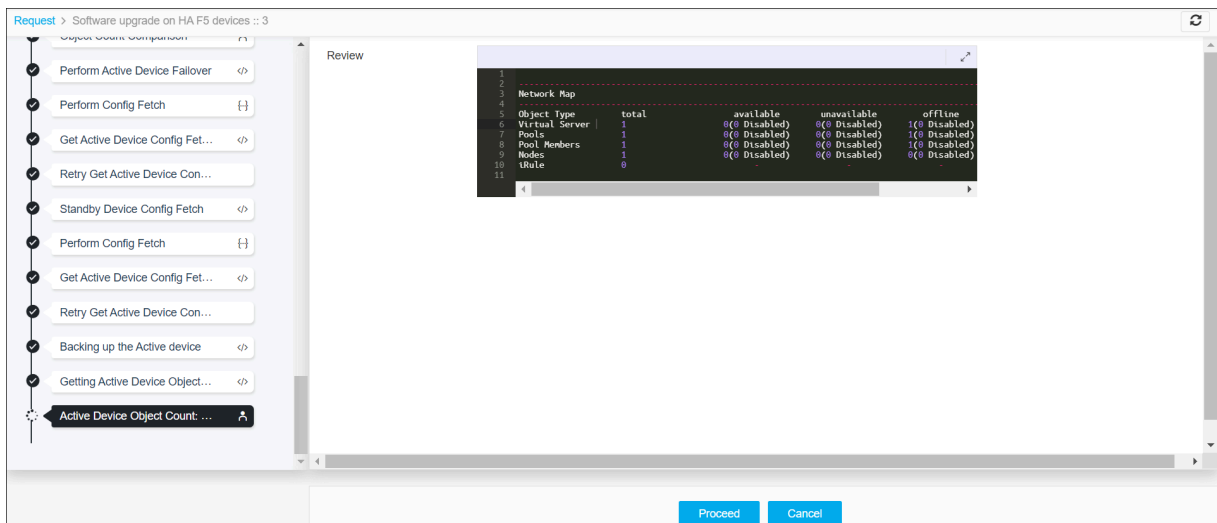
16. After the **Object Count Comparison**, click the **Proceed** button.



The Confirmation popup opens.

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

18. After the **Active Device Object Count**, click the **Proceed** button.



The Confirmation popup opens.

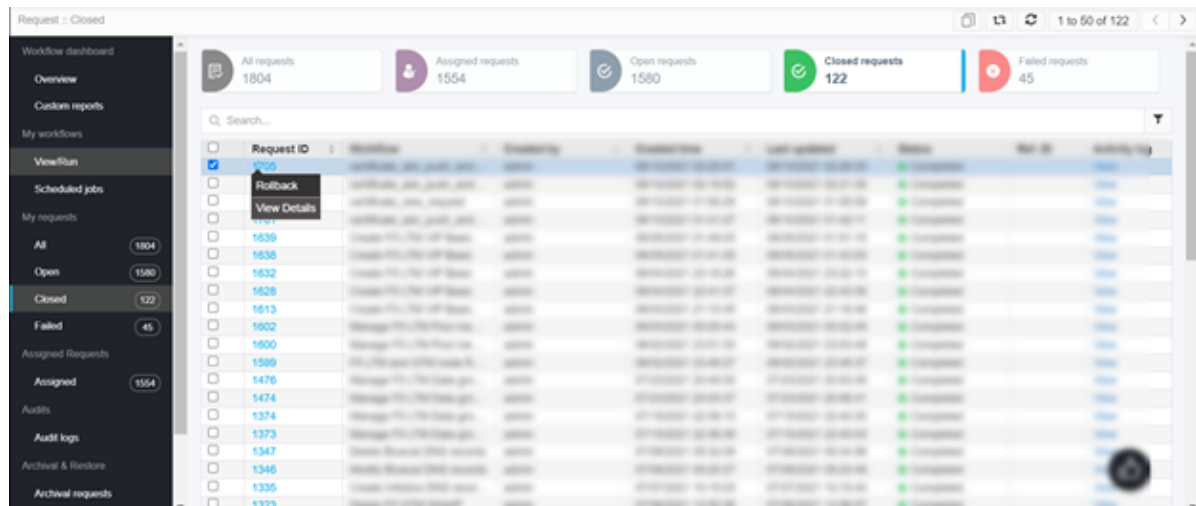
19. Click **OK** to submit the form.

20. The implementation process for software upgrade is completed:

<screenshot>

21. 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.

Compliance

The workflows grouped under this sub-category are:

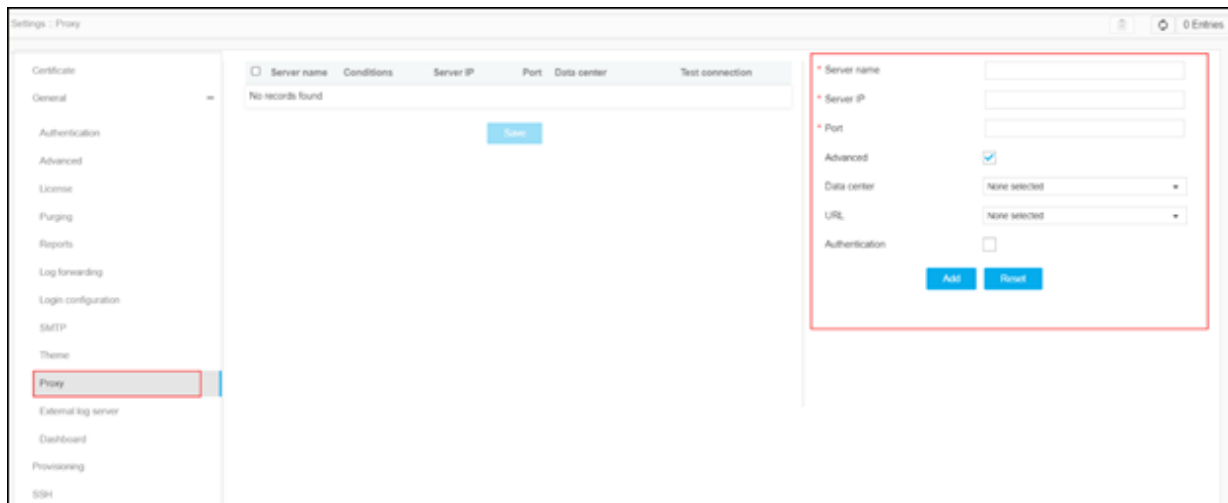
- Fetch F5 BIG-IP CVEs
- F5 BIG-IP CVE Reporting
- F5 BIG-IP Golden Config Compliance
- [Fetch F5 BIG-IP CVEs](#)
- [Prerequisites](#)
- [F5 BIG-IP CVE Reporting](#)
- [Perquisites](#)
- [Running F5 BIG-IP CVE Reporting](#)
- [F5 BIG-IP Golden Config Compliance](#)
- [Perquisites](#)
- [Running F5 BIG-IP Golden Config Compliance](#)

Fetch F5 BIG-IP CVEs

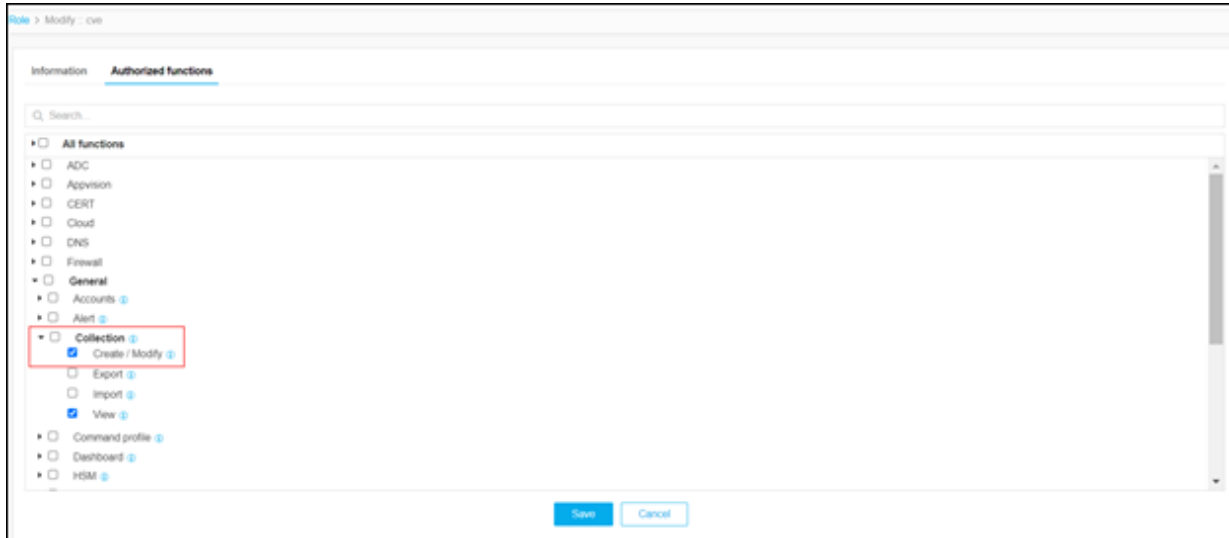
This workflow fetches a list of CVE vulnerabilities from the Global site <https://cve.mitre.org/> and stores them in the AppViewX Database. By using these vulnerabilities stored in the Database, the managed F5 load balancers in AppViewX can be validated to see whether they are vulnerable or not. This 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).

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**.

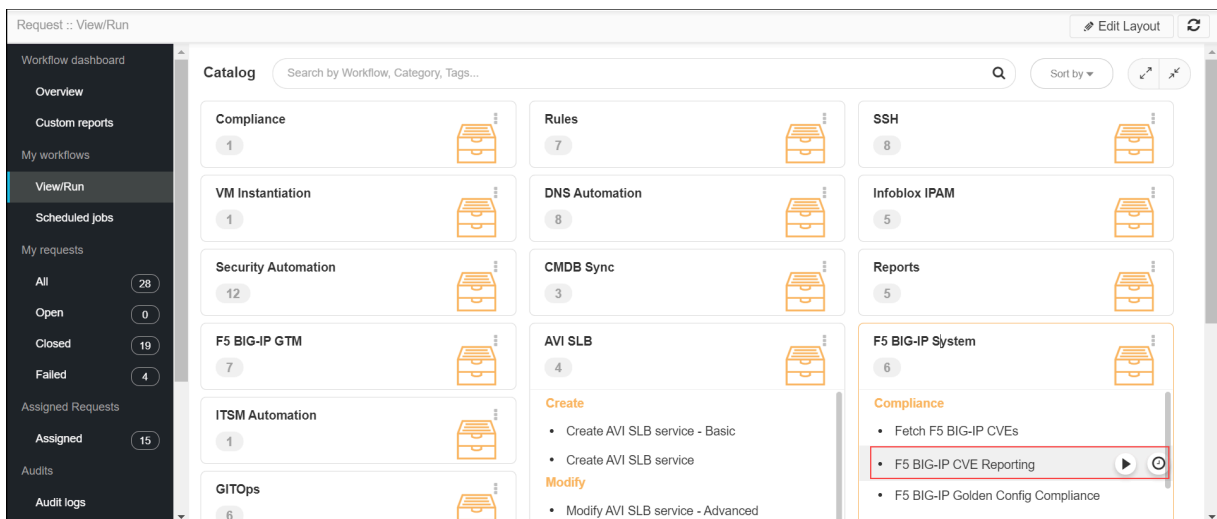


- You must be mapped to a role in which access to Collection, **Create/Modify** should be enabled to run this workflow.



To run this workflow,

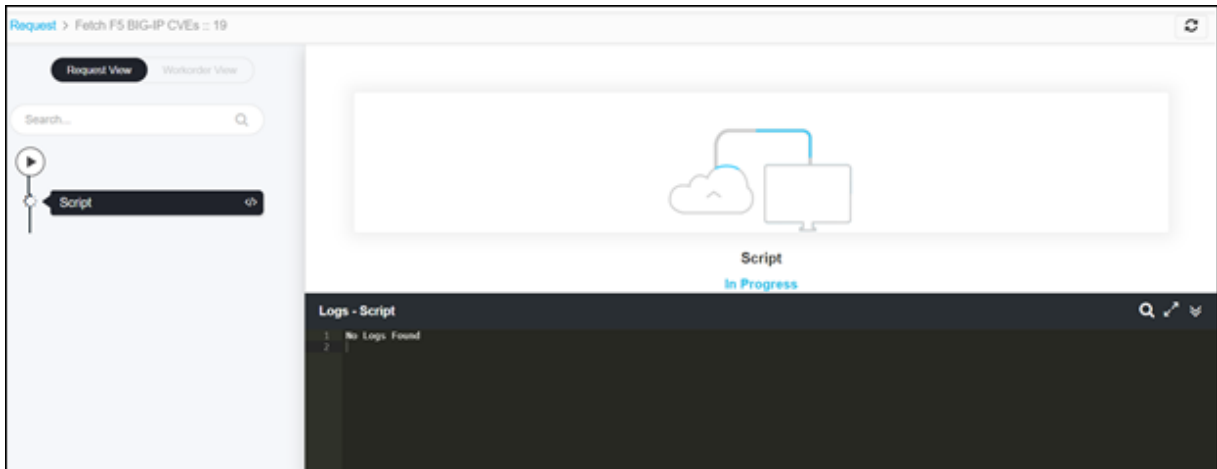
1. In the Workflow Catalog page, hover over the **Fetch F5 BIG-IP CVEs** workflow.



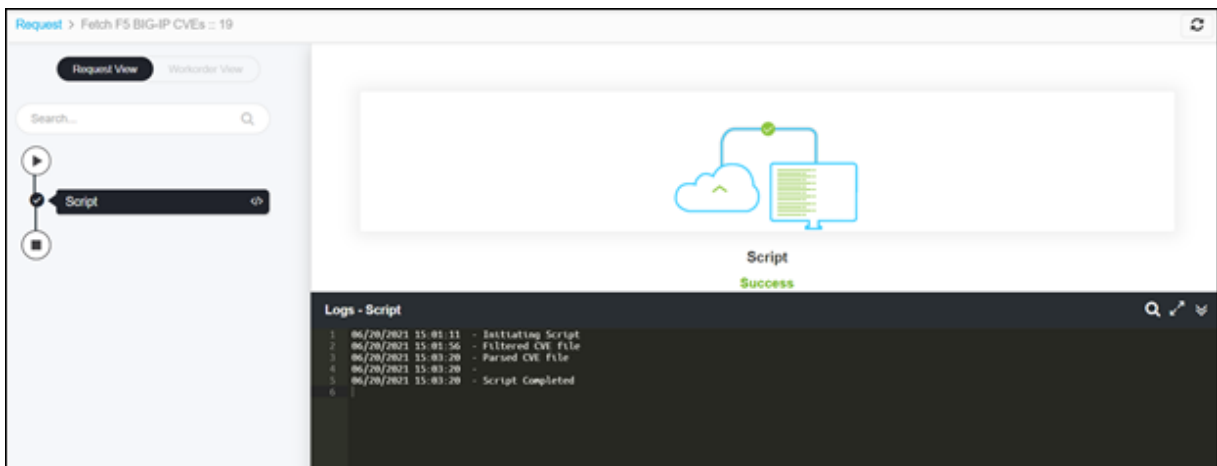
The Run and Schedule buttons are shown.

2. Click the Run  button.

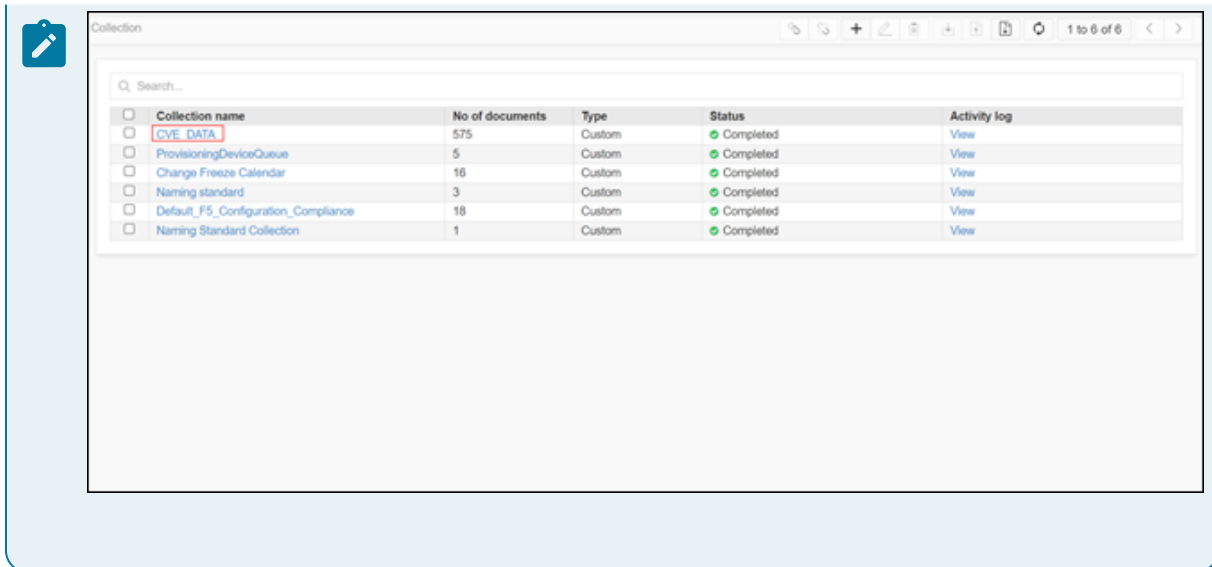
The script starts running.



3. Once the workflow is completed, the CVE vulnerabilities are fetched from the Global site and stored in the Database.



Note: To view the list of stored vulnerabilities, go to **Menu > Collection:**



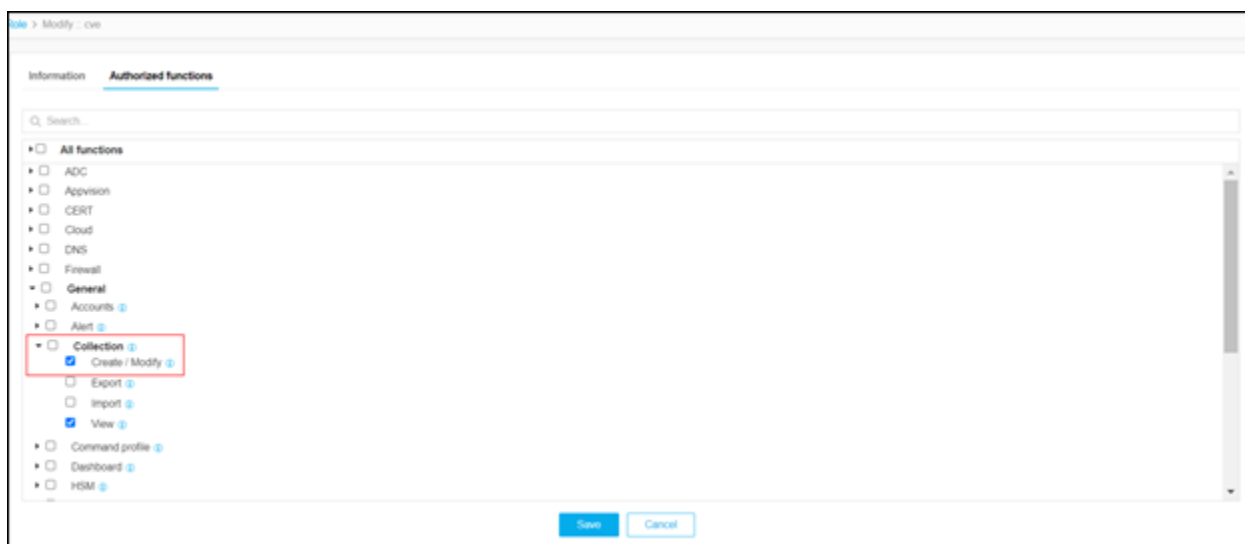
Collection name	No of documents	Type	Status	Activity log
CVE DATA	575	Custom	Completed	View
ProvisioningDeviceQueue	5	Custom	Completed	View
Change Freeze Calendar	16	Custom	Completed	View
Naming standard	3	Custom	Completed	View
Default_F5_Configuration_Compliance	18	Custom	Completed	View
Naming Standard Collection	1	Custom	Completed	View

F5 BIG-IP CVE Reporting

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.

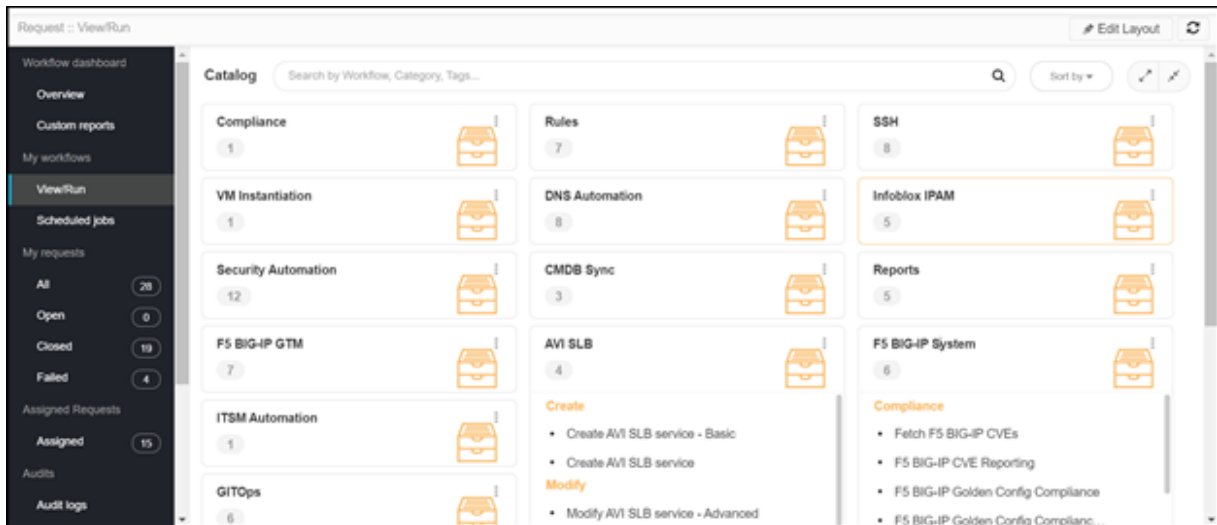


Running F5 BIG-IP CVE Reporting

To run this workflow,

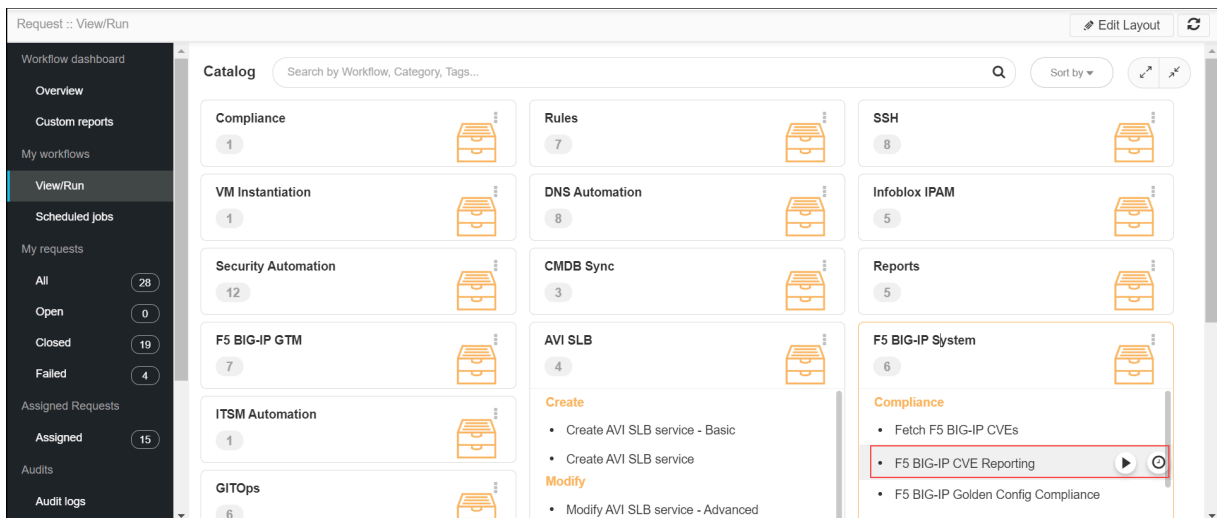
1. Go to  **Menu > Request > View/Run.**


The ADC OOB workflows are listed.



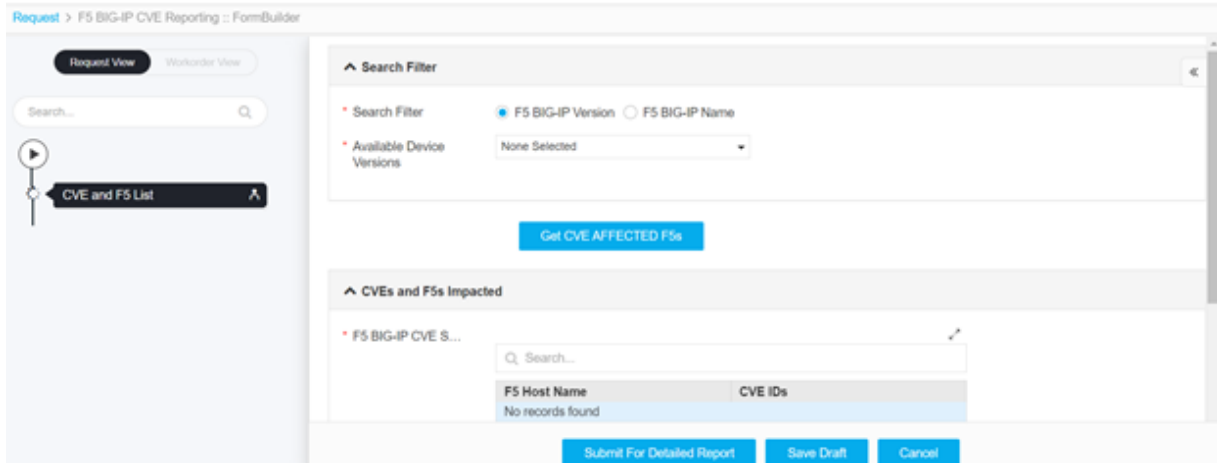
2. In the Workflow Catalog page, hover over the Fetch F5 BIG-IP CVEs workflow.

The Run and Schedule buttons are shown.

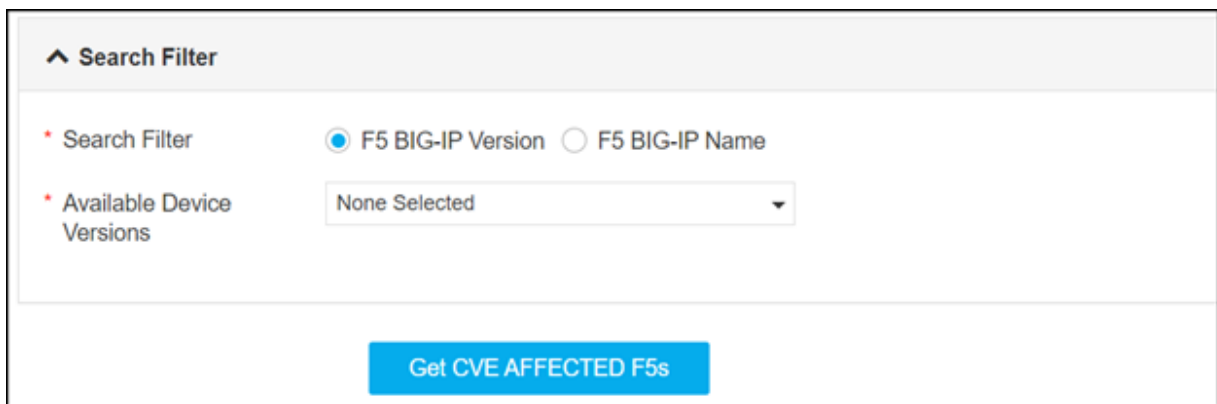


3. Click the Run  button.

The Form Input page opens:



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

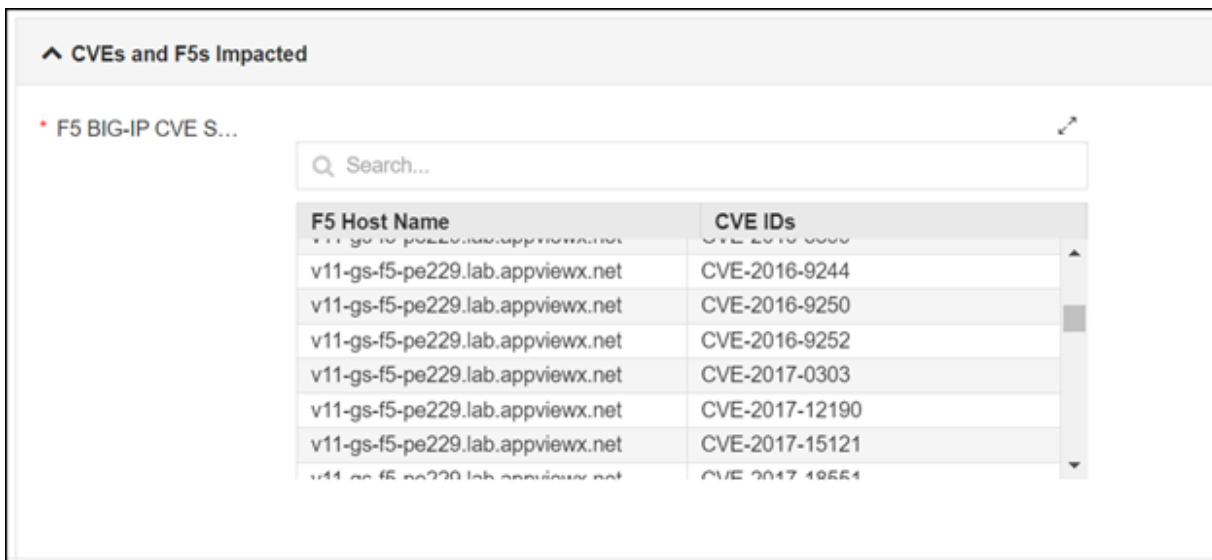


5. The following table provides the field description for the **Search Filter** section of Form Input:

Field	Description
Search Filter	<p>Select the search filter. The possible options are:</p> <ul style="list-style-type: none"> 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	<p>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.</p>

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.



^ CVEs and F5s Impacted

* F5 BIG-IP CVE S...

Q Search...

F5 Host Name	CVE IDs
v11-gs-f5-pe229.lab.appviewx.net	CVE-2016-9244
v11-gs-f5-pe229.lab.appviewx.net	CVE-2016-9250
v11-gs-f5-pe229.lab.appviewx.net	CVE-2016-9252
v11-gs-f5-pe229.lab.appviewx.net	CVE-2017-0303
v11-gs-f5-pe229.lab.appviewx.net	CVE-2017-12190
v11-gs-f5-pe229.lab.appviewx.net	CVE-2017-15121
v11-gs-f5-pe229.lab.appviewx.net	CVE-2017-19551

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.

* Email_id



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

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



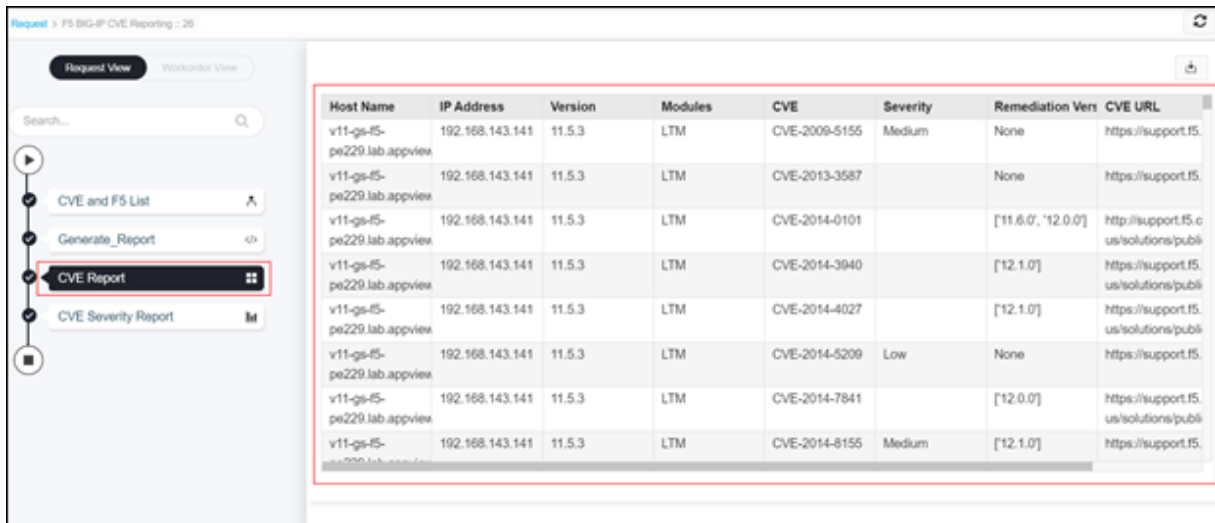
Note:

- 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.

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.



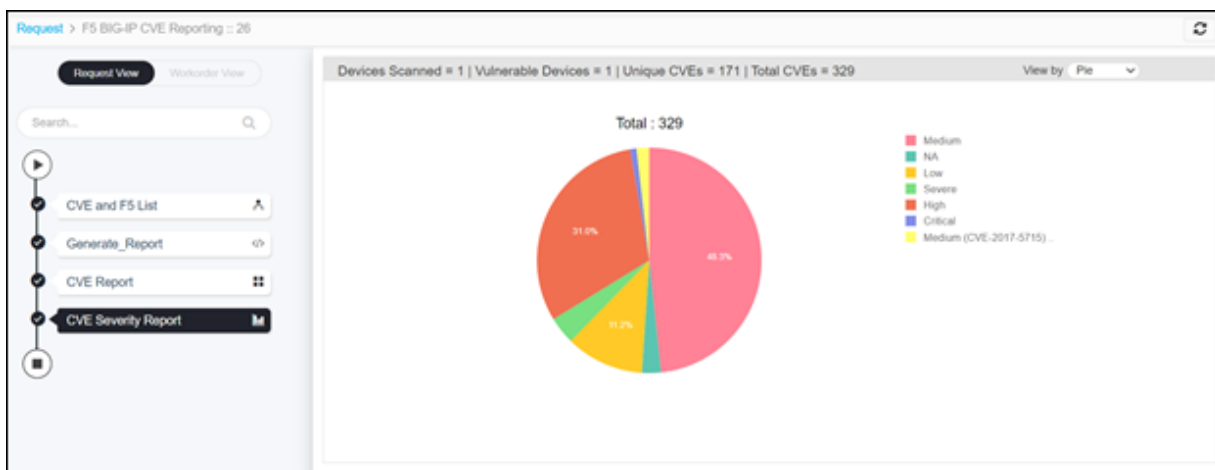
The screenshot shows the 'Request View' of the CVE Report. The left sidebar has 'CVE Report' selected. The main area displays a table with the following data:

Host Name	IP Address	Version	Modules	CVE	Severity	Remediation Ver	CVE URL
v11-gs-f5-pe229.lab.appview	192.168.143.141	11.5.3	LTM	CVE-2009-5155	Medium	None	https://support.f5.
v11-gs-f5-pe229.lab.appview	192.168.143.141	11.5.3	LTM	CVE-2013-3587		None	https://support.f5.
v11-gs-f5-pe229.lab.appview	192.168.143.141	11.5.3	LTM	CVE-2014-0101		[11.6.0, 12.0.0]	http://support.f5.c us/solutions/publ
v11-gs-f5-pe229.lab.appview	192.168.143.141	11.5.3	LTM	CVE-2014-3940		[12.1.0]	https://support.f5. us/solutions/publ
v11-gs-f5-pe229.lab.appview	192.168.143.141	11.5.3	LTM	CVE-2014-4027		[12.1.0]	https://support.f5. us/solutions/publ
v11-gs-f5-pe229.lab.appview	192.168.143.141	11.5.3	LTM	CVE-2014-5209	Low	None	https://support.f5.
v11-gs-f5-pe229.lab.appview	192.168.143.141	11.5.3	LTM	CVE-2014-7841		[12.0.0]	https://support.f5. us/solutions/publ
v11-gs-f5-pe229.lab.appview	192.168.143.141	11.5.3	LTM	CVE-2014-8155	Medium	[12.1.0]	https://support.f5.



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.

- **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

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.

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

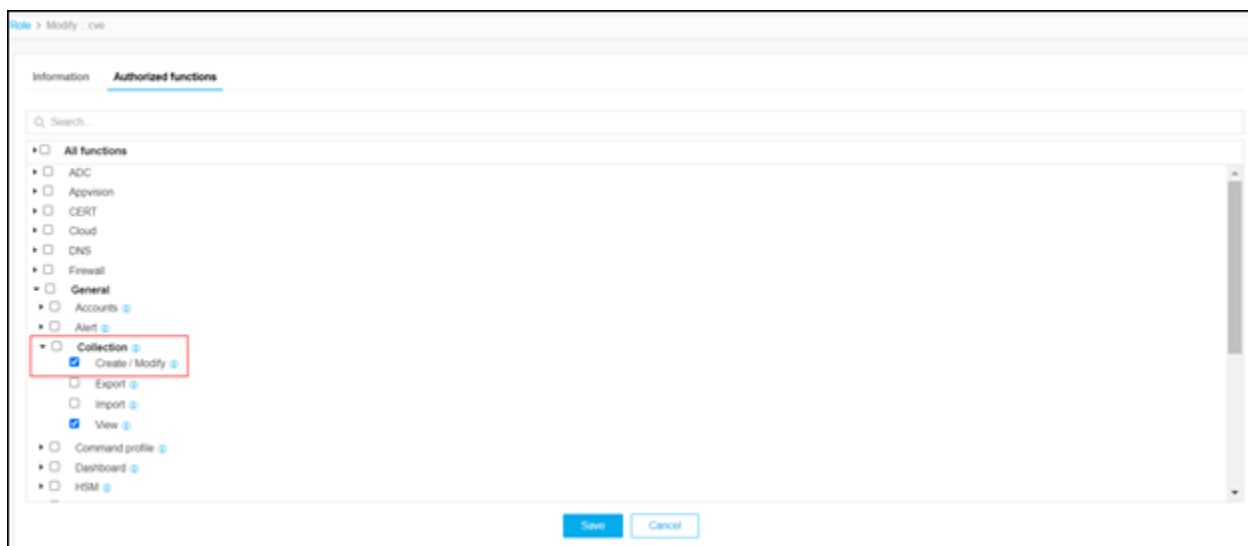
- **Custom Parameters** – The Parameters newly added by the user. The user must provide the command to read, the command to write, the command to revert, as an input in the Workflow.

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.



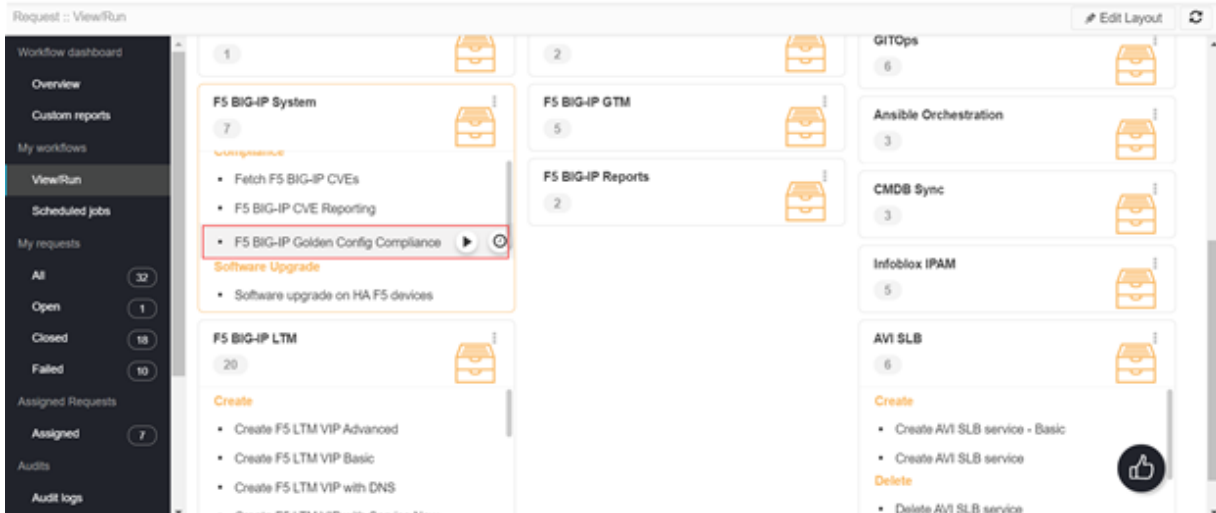
Running F5 BIG-IP Golden Config Compliance

To run this workflow,

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

The Workflow Catalog page appears.

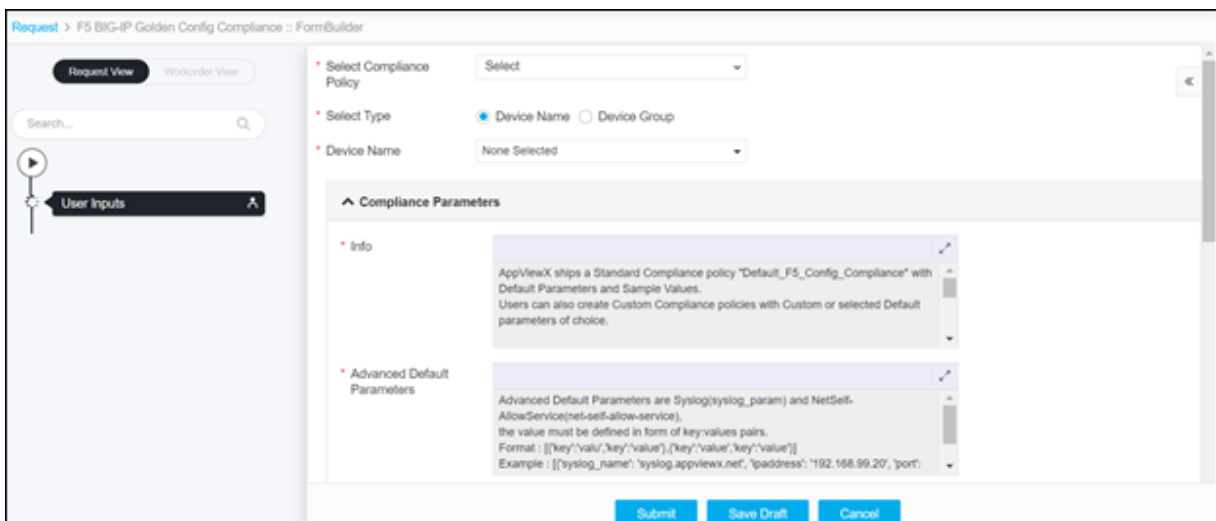
2. In the Workflow Catalog page, hover over the **F5 BIG-IP Golden Config Compliance** workflow.



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.



- **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:

A screenshot of a configuration interface. It shows two sections: 'Select Compliance Policy' with a dropdown menu set to 'Default_F5_Configuration_Compliance', and 'Select Type' with two radio buttons: 'Device Name' (which is selected) and 'Device Group'.

- **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.

A screenshot of a configuration interface. It shows three sections: 'Select Compliance Policy' with a dropdown menu set to 'test_US_policy_Compliance', 'Select Type' with two radio buttons: 'Device Name' (which is selected) and 'Device Group', and 'Device Name' with a dropdown menu showing '2 selected'.

- **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.

A screenshot of a configuration interface. It shows three sections: 'Select Type' with two radio buttons: 'Device Name' and 'Device Group' (which is selected), 'Device Group' with a dropdown menu set to 'US_DC', and 'Active Devices in Groups' with a text area displaying 'US_DC : [gs-f5-pe305.lab.appviewx.net', 'gs-f5-pe306.lab.appviewx.net']'.

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.

* Compliance Para...

Q Search...

<input type="checkbox"/>	Config/Parameter Ty...	Config/Parameter Na...	Value	Config
<input type="checkbox"/>	Default	sys-global-setting-gui-s...	enabled	N/A ^
<input type="checkbox"/>	Default	sys-global-setting-gui-s...	enabled	N/A
<input type="checkbox"/>	Default	sys-globalsetting-cons...	0	N/A
<input type="checkbox"/>	Default	sys_search_dns	appviewx2...	N/A
<input type="checkbox"/>	Default	syslog_param	{'syslog_n...	N/A
<input type="checkbox"/>	Default	timezone	GMT	N/A v

- 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:

* Compliance Parameter Table

Q Search...

<input type="checkbox"/>	Config/Parameter Ty...	Config/Parameter Na...	Value	Config/Parameter Comma...	Ren
<input checked="" type="checkbox"/>	Default	banner_name	LoggedInt...	N/A	f ^
<input type="checkbox"/>	Default	banner_state	disabled	N/A	f

- Modify **Value** for a Param:

ConfigParameter Type: Default


* ConfigParameter Name: banner_name

* Value: LoggedIntof5

* ConfigParameter Command: N/A

* Remediation Command: N/A

+ [edit] [cancel] [delete]

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

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

The screenshot shows a configuration form with the following fields:

- Config/Parameter Type:** Custom
- * Config/Parameter Name:** http_profile
- * Value:** http_xforwarded-for
- * Config/Parameter Command:** list ltm profile http http_xforwarded-for
- * Remediation Command:** create ltm profile http http_xforwarded-for {inse

At the bottom of the form, there are four action buttons: a plus sign (+), an eraser, a refresh (C), and a trash can.

- 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**.

The dialog box contains the following elements:

- * SaveAs(New Compliance Policy):** Radio buttons for No and Yes (selected).
- * Compliance File Name:** An empty text input field.

- 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**.

The dialog box contains the following element:


- * Update Policy:** Radio buttons for No and Yes (selected).

**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.

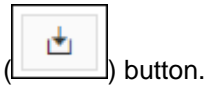
**Note:**

- 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.

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



Request > F5 BIG-IP Golden Config Compliance :: 50

Request View Workorder View

Search...

User Inputs

Compliance check

Compliance Grid Report

Device Name	ConfigParam Name	Device Config	Expected Value	Status
gs-f5-pe55.lab.appviewx.net	banner_name	sys sshd { banner-text LoggedIntoF5 }	LoggedIntoF5	Compliant
gs-f5-pe55.lab.appviewx.net	banner_state	sys sshd { banner disabled }	disabled	Compliant
gs-f5-pe55.lab.appviewx.net	cm-device-group-auto-sync	cm device-group device_trust_group { auto-sync enabled devices { gs-f5-pe54.lab.appviewx.net { } gs-f5-pe55.lab.appviewx.net	disabled	Compliant

Submit Cancel

The summary of the Compliance Grid Report are:

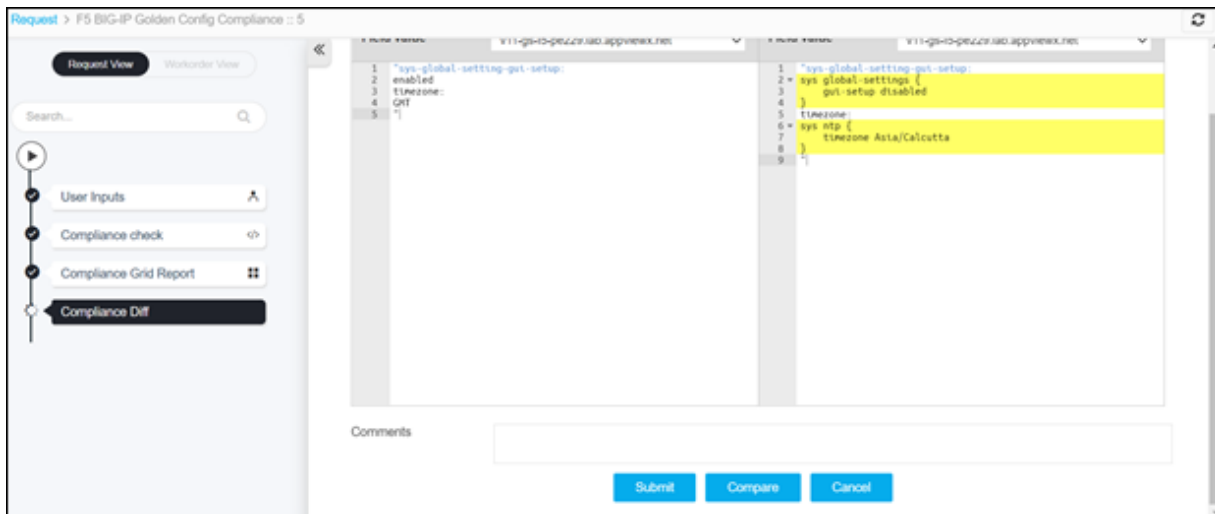
- The first column displays the device name.
 - The other columns display Config/Parameter names.
 - The report has two body rows. They represent the following:
 - First Row - the status of the Parameter in the device.
 - Second Row - the actual value of the parameter in the device.
13. Click the **Submit**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

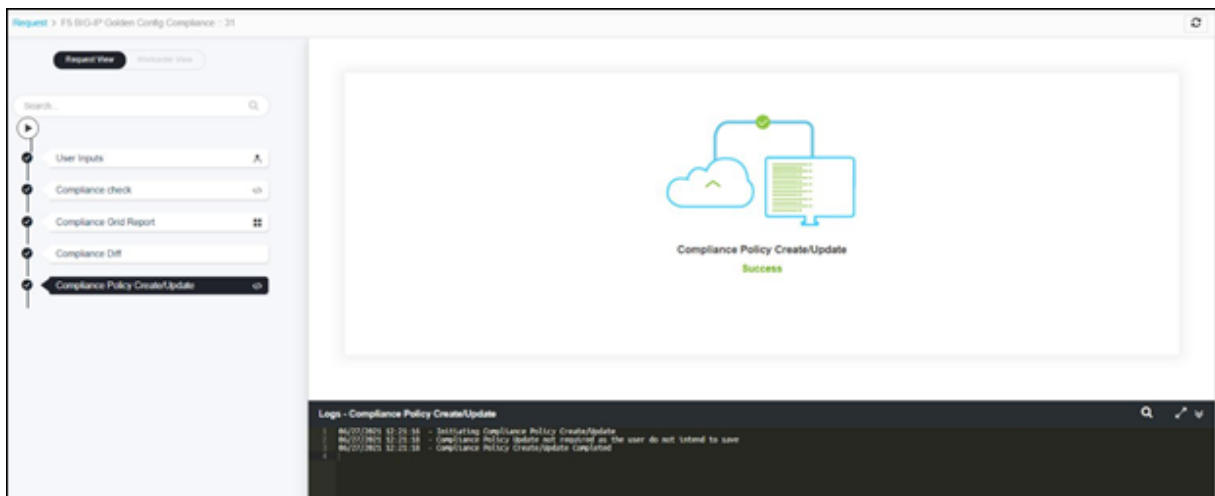


Note: To view the compliance difference for the other devices, select a device from the field value drop-down list in the left and/or right side of the diff Palate.



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.

- **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.

No Yes

Info

Below Table list the Non-Compliant Parameters in the respective Devices and Remediation details.
 Ensure the Remediation and Rollback details are updated by executing the 'Validate' button

Remediation Table

<input type="checkbox"/>	Device Na...	Config/Parameter Ty...	Config/Parameter Na...	Expected
<input type="checkbox"/>	v11-gs-f5-p...	Default	sys-global-setting-gui-s...	enabled
<input type="checkbox"/>	v11-gs-f5-p...	Default	timezone	GMT
<input type="checkbox"/>	v12-gs-f5-p...	Default	sys-global-setting-gui-s...	enabled
<input type="checkbox"/>	v12-gs-f5-p...	Default	timezone	GMT

ⓘ

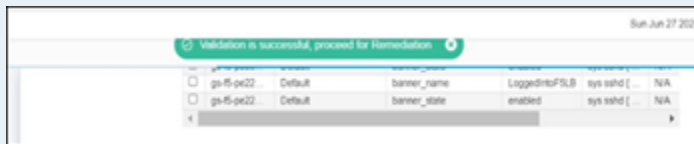
ⓘ

ⓘ

ⓘ

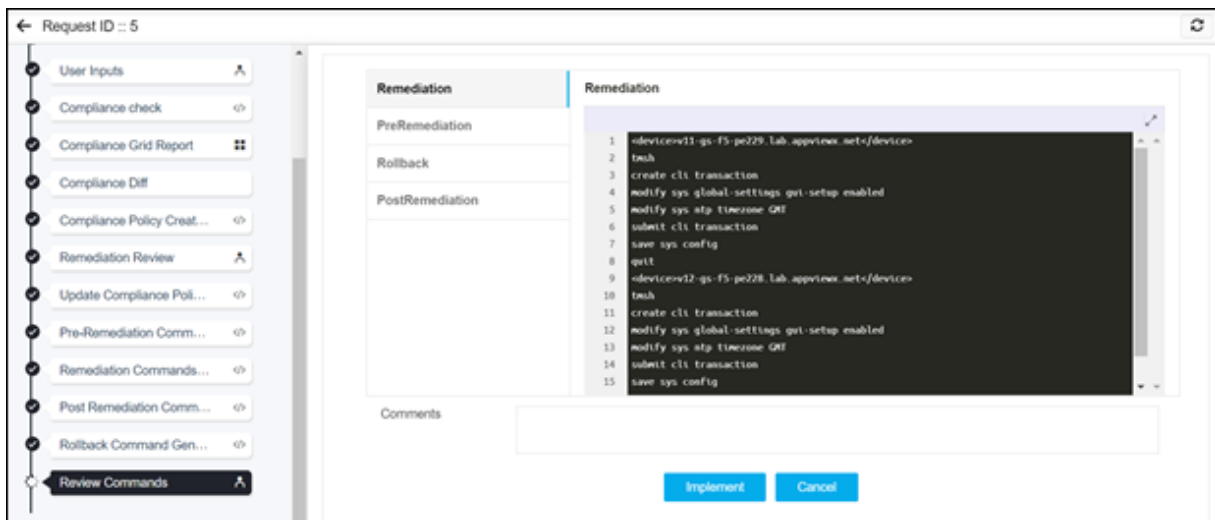
**Note:**

- 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, proceed for Remediation is seen.



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

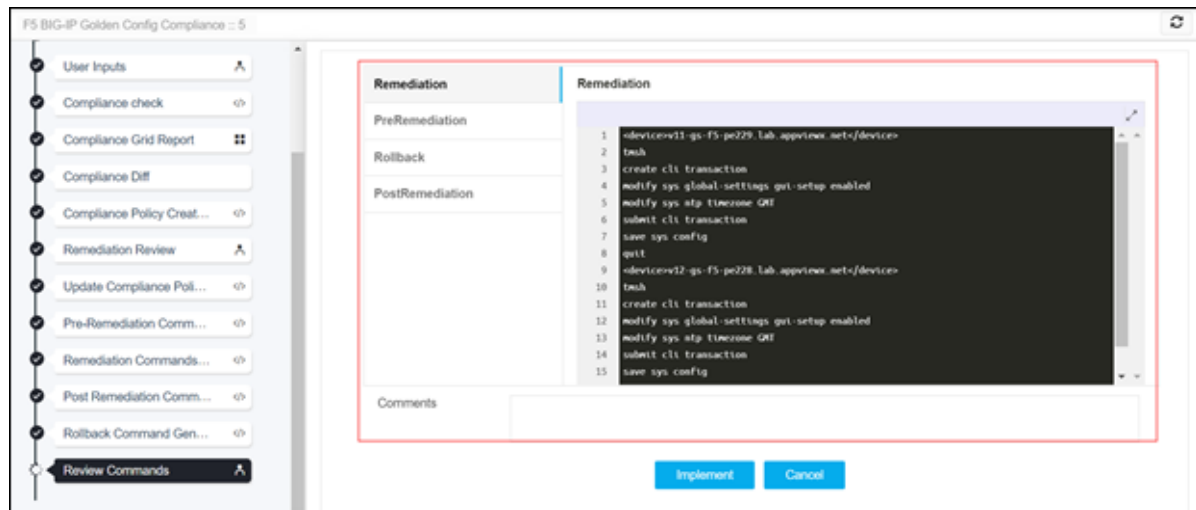
The update of remediation and rollback commands run automatically and generates Review Commands to review and implement the changes.



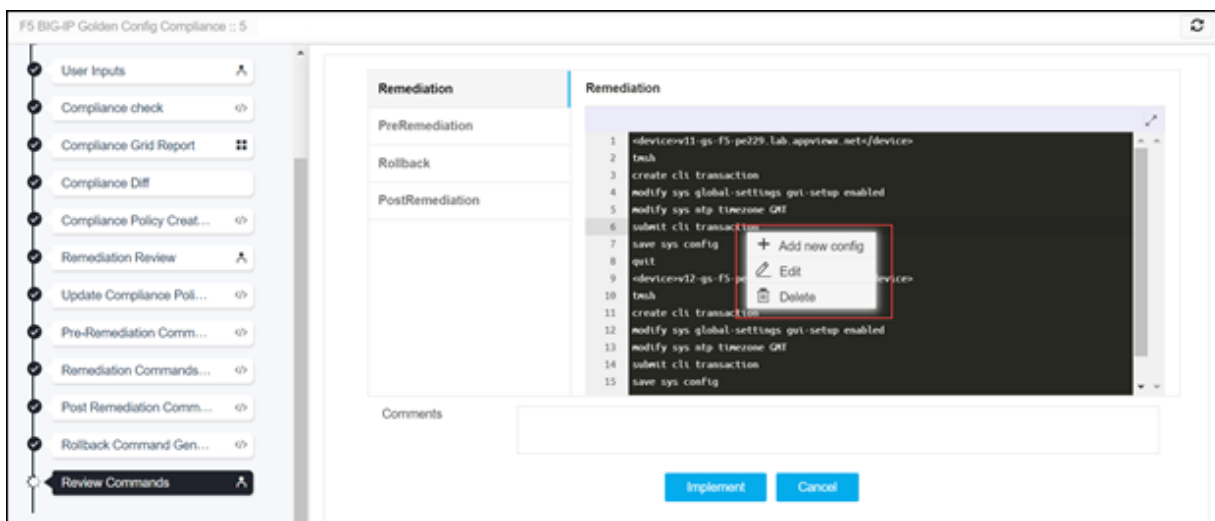
20. If required, review the commands that are about to be executed in the F5 load balances in the following tabs:

- **Remediation**
- **PreRemediation** – List the values of the parameter, prior Remediation.
- **Rollback** – Revert the parameter's value to the previous state of Remediation.

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

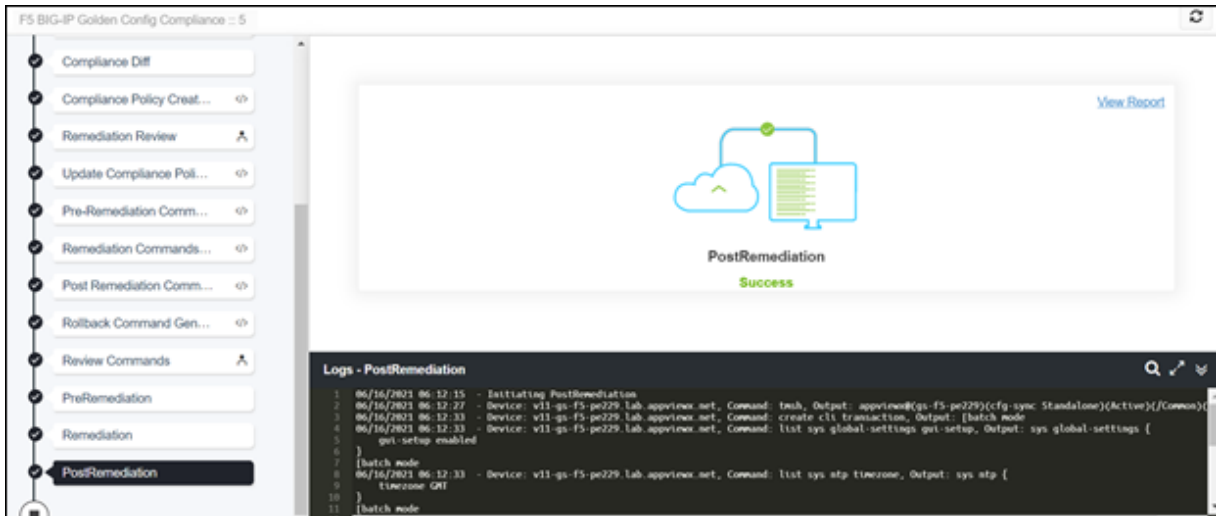


21. You can edit the commands at this stage, by clicking the right-mouse button in the desired tab.



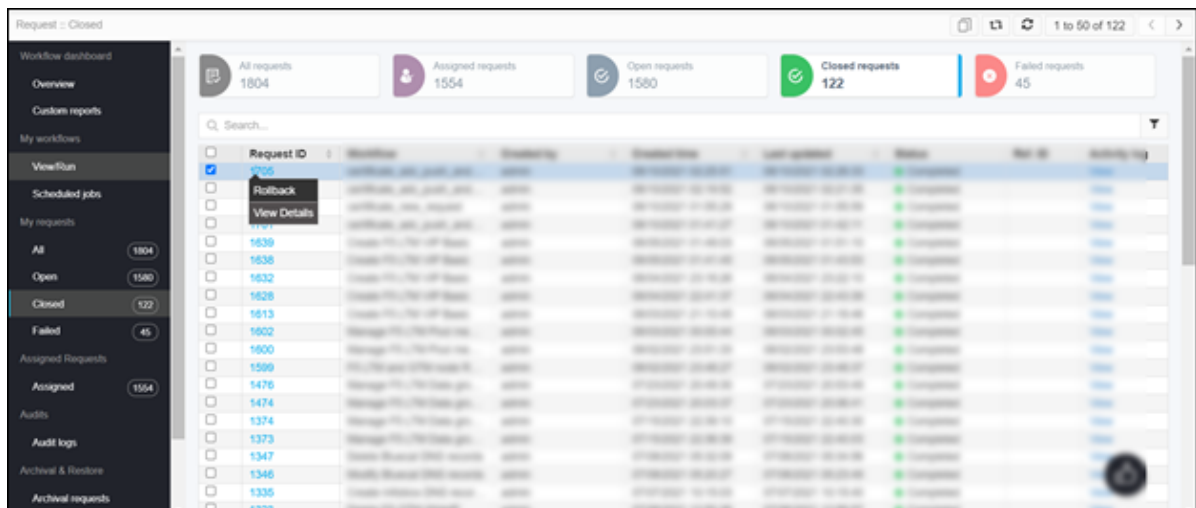
22. Once reviewed the commands, click the Implement button, and then click **Ok** in the confirmation pop-up.

The implementation process completes:



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:	

Default Parameter Name	Actual Parameter
	<pre>appviewx@(gs-f5-pe306)(cfg-sync In Sync)(Active)(/Common)(tmoss)# list sys sshd banner-text sys sshd { banner-text none }</pre>
banner_state	<pre>appviewx@(gs-f5-pe306)(cfg-sync In Sync)(Active)(/Common)(tmoss)# list sys sshd banner-text sys sshd { banner-text none }</pre>
cm-device-group-auto-sync	<p>Compliant or Non-Compliant is decided based on the below logic:</p> <p>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.</p> <pre>appviewx@(gs-f5-pe306)(cfg-sync In Sync)(Active)(/Common)(tmoss)# list cm device-group cm device-group HA_group { auto-sync enabled devices { gs-f5-pe305.lab.appviewx.net { } gs-f5-pe306.lab.appviewx.net { } } type sync-failover } cm device-group datasync-device-gs-f5-pe305.lab.appviewx.net-dg { auto-sync enabled devices { gs-f5-pe305.lab.appviewx.net { } gs-f5-pe306.lab.appviewx.net { } } full-load-on-sync true network-failover disabled }</pre>
dns_ip_address	<pre>appviewx@(gs-f5-pe306)(cfg-sync In Sync)(Active)(/Common)(tmoss)# list sys dns name-servers sys dns { name-servers none }</pre>
gateway_ip	<pre>appviewx@(gs-f5-pe306)(cfg-sync In Sync)(Active)(/Common)(tmoss)# list sys httpd auth-pam-idle-timeout sys httpd { auth-pam-idle-timeout 1200 }</pre>
httpd-allow	<pre>appviewx@(gs-f5-pe306)(cfg-sync In Sync)(Active)(/Common)(tmoss)# list sys httpd auth-pam-idle-timeout sys httpd { auth-pam-idle-timeout 1200 }</pre>

Default Parameter Name	Actual Parameter
httpd-auth-pam-idle-timeout	<pre>appviewx@(gs-f5-pe306)(cfg-sync In Sync)(Active)(/Common)(tmos)# list sys httpd redirect-http-to-https sys httpd { redirect-http-to-https disabled }</pre>
httpd-redirect-http-to-https	<pre>appviewx@(gs-f5-pe306)(cfg-sync In Sync)(Active)(/Common)(tmos)# list sys httpd ssl-protocol sys httpd { ssl-protocol "all -SSLv2 -SSLv3 -TLSv1" }</pre>
httpd-ssl-protocol	<pre>appviewx@(gs-f5-pe306)(cfg-sync In Sync)(Active)(/Common)(tmos)# list sys httpd ssl-protocol sys httpd { ssl-protocol "all -SSLv2 -SSLv3 -TLSv1" }</pre>
net-self-allow-service	<p>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.</p> <pre>appviewx@(gs-f5-pe306)(cfg-sync In Sync)(Active)(/Common)(tmos)# list net self allow-service net self HA_SELF { allow-service all }</pre>
ntp_ip_address	<pre>appviewx@(gs-f5-pe306)(cfg-sync In Sync)(Active)(/Common)(tmos)# list sys sshd inactivity-timeout sys sshd { inactivity-timeout 0 }</pre>
ssh_inactivity_timeout	<pre>appviewx@(gs-f5-pe306)(cfg-sync In Sync)(Active)(/Common)(tmos)# list sys global-settings gui-security-banner sys global-settings { gui-security-banner enabled }</pre>

Default Parameter Name	Actual Parameter
sys-global-setting-gui-security-banner	<pre>appviewx@(gs-f5-pe306)(cfg-sync In Sync)(Active)(/Common)(tmoss)# list sys global-settings gui-setup sys global-settings { gui-setup disabled }</pre>
sys-global-setting-gui-setup	<pre>appviewx@(gs-f5-pe306)(cfg-sync In Sync)(Active)(/Common)(tmoss)# list sys global-settings console-inactivity-timeout sys global-settings { console-inactivity-timeout 0 }</pre>
sys-globalsetting-console-inactivity-timeout	<pre>appviewx@(gs-f5-pe306)(cfg-sync In Sync)(Active)(/Common)(tmoss)# list sys dns search sys dns { search { localhost } }</pre>
sys_search_dns	<pre>appviewx@(gs-f5-pe306)(cfg-sync In Sync)(Active)(/Common)(tmoss)# list sys dns search sys dns { search { localhost } }</pre>
syslog_param	<pre>appviewx@(gs-f5-pe306)(cfg-sync In Sync)(Active)(/Common)(tmoss)# list sys dns search sys dns { search { localhost } }</pre>
syslog_param	<p>Compliant or Non-Compliant is based on the points below:</p> <ul style="list-style-type: none"> • 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.

Default Parameter Name	Actual Parameter
	<pre> appviewx@(gs-f5-pe306)(cfg-sync In Sync)(Active)(/Common)(tmos)# list sys syslog sys syslog { remote-servers { slg17218112 { host 172.18.1.12 remote-port 32345 } } } </pre>
timezone	<pre> appviewx@(gs-f5-pe306)(cfg-sync In Sync)(Active)(/Common)(tmos)# list sys ntp timezone sys ntp { timezone GMT } </pre>


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.

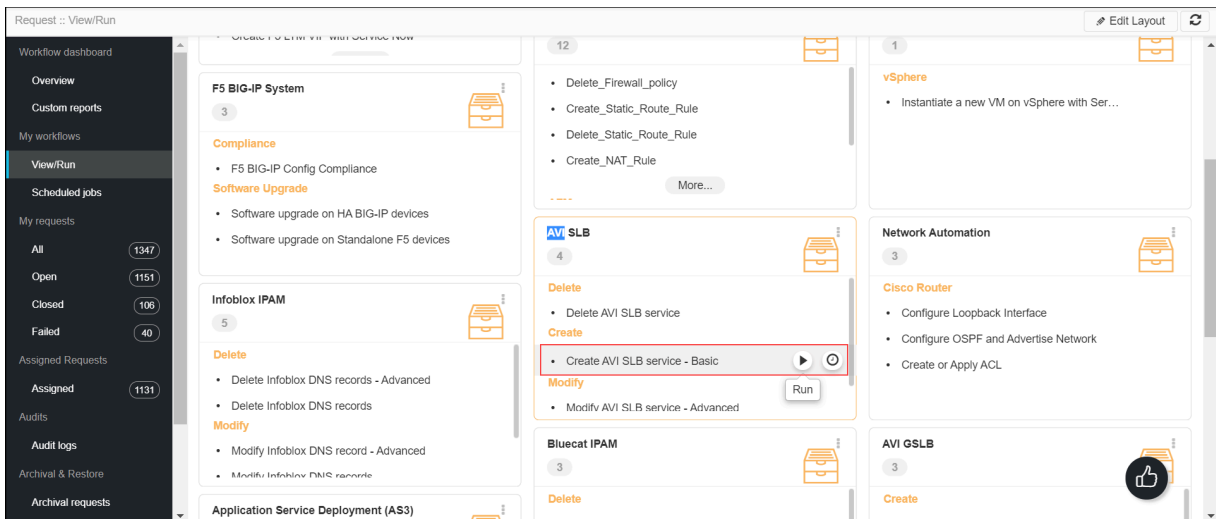
To run this workflow,

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

The Workflow Catalog page appears.

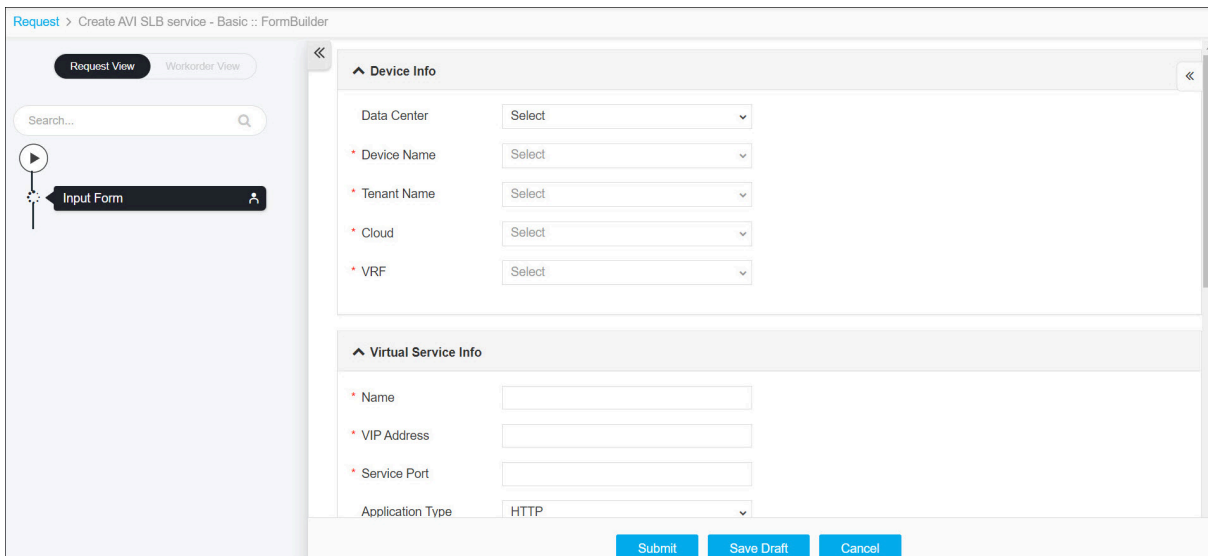
2. In the Workflow Catalog page, hover over the **Create AVI SLB service – Basic** workflow.

The Run and Schedule buttons are shown.

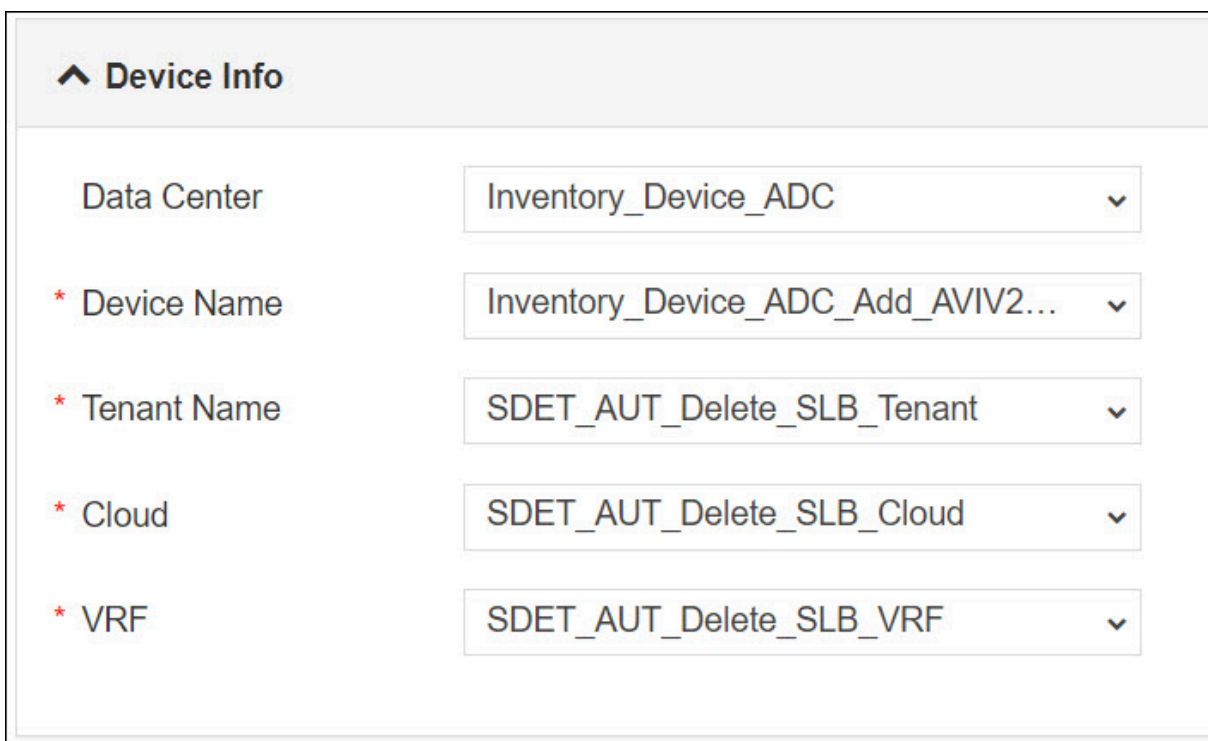


3. Click the Run  button.

The Form Input page opens:



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

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.

Virtual Service Info

* Name

* VIP Address

* Service Port

Application Type

Select Servers IP IP Range IP Group

Note

FQDN for server can be provided in next field. It is mandatory to provide an IP address corresponding to each FQDN .

DNS

IP

+
✎
↻
🗑

Server Details

	DNS	IP	IP Range	IP Group
<input type="checkbox"/>				
<input type="checkbox"/>				

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: <ul style="list-style-type: none"> • HTTP • HTTPS • L4 • L4 SSL/TLS
*Select Servers	Select one of the following servers for the pools to be attached:

Field	Description
	<ul style="list-style-type: none"> • 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.

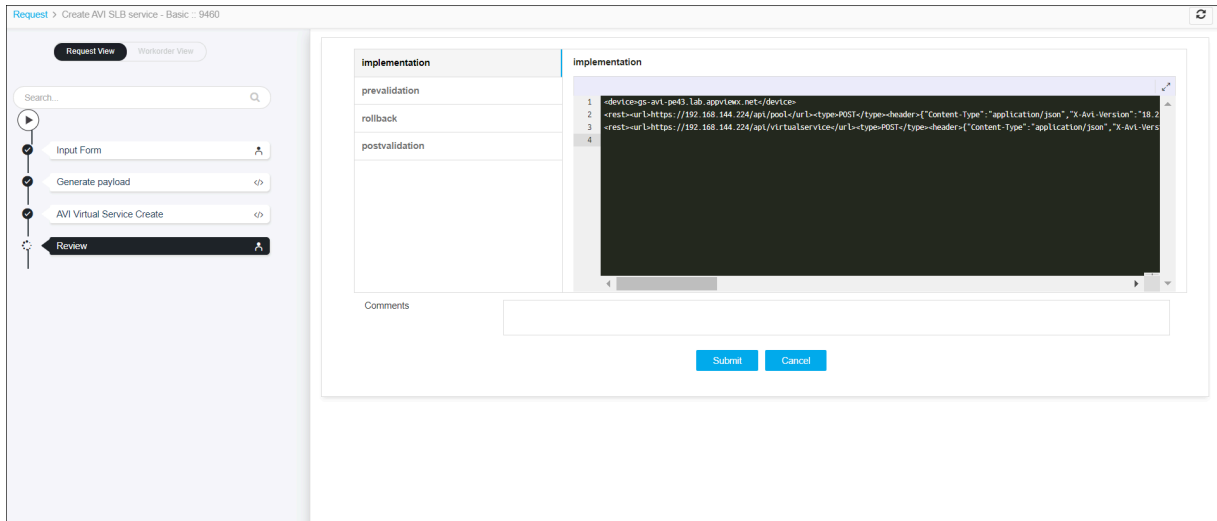
The validation starts automatically and reaches the Review stage.



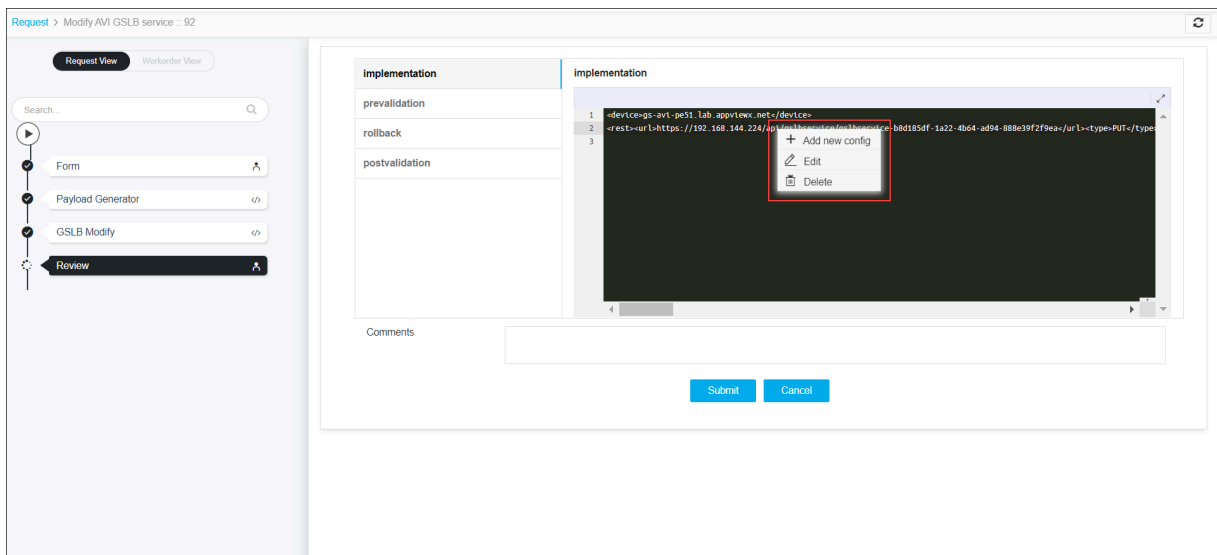
Note:

- 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:



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.

The screenshot shows the 'Request View' for a workflow titled 'Create AVI SLB service - Basic :: 9460'. The left sidebar contains a vertical list of workflow stages: Input Form, Generate payload, AVI Virtual Service Create, Review, Prevalidation, Implementation, Postvalidation, and Email Notification. The 'Email Notification' stage is currently selected and highlighted. The main workspace displays a diagram of a cloud icon connected to a server icon, with the text 'Email Notification Success' below it. At the bottom, a 'Logs - Email Notification' panel shows the following log entries:

```

08/22/2021 18:05:55 - Initiating Email Notification
08/22/2021 18:05:55 - Email triggered: Email Notification
08/22/2021 18:05:56 - Send Email Successful: Email Notification
08/22/2021 18:05:56 - Email Notification Completed

```




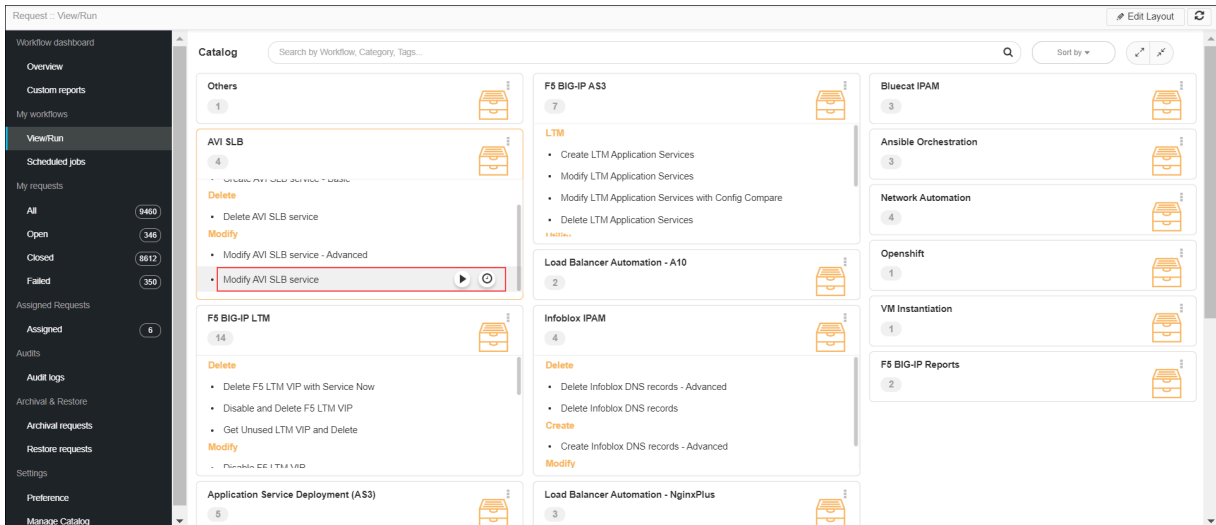
Note: The stages of the request are shown in the left-side of the screen. To view a particular stage of the request, click the respective stage.

Modify AVI SLB service

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

To run this workflow,

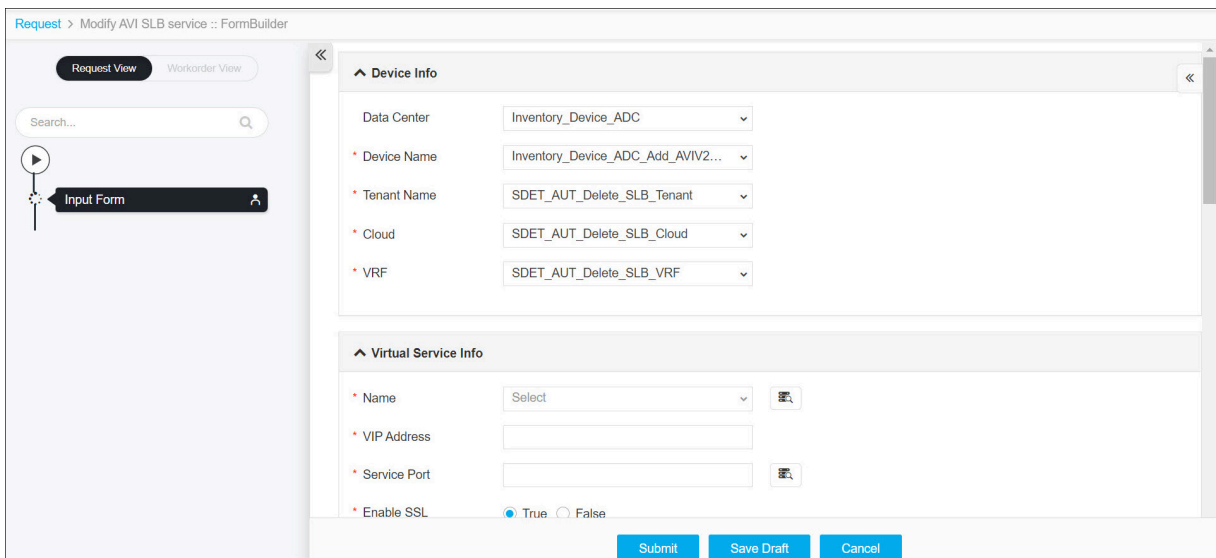
1. Go to  Menu > Request > View/Run.
The Workflow Catalog page appears.
2. In the Workflow Catalog page, hover over the Modify AVI SLB service workflow.
The Run and Schedule buttons are shown.



3. Click the Run  button.

The Form Input page opens:

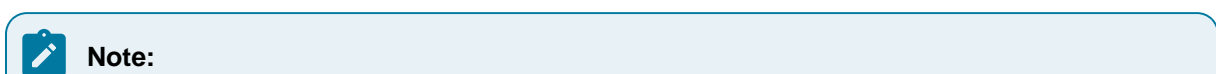
4. Provide the device information and fetch the details of a virtual service.



5. Modify the necessary details of a virtual service for a device.

6. Click the **Submit** button.

The Confirmation popup opens.





- 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.

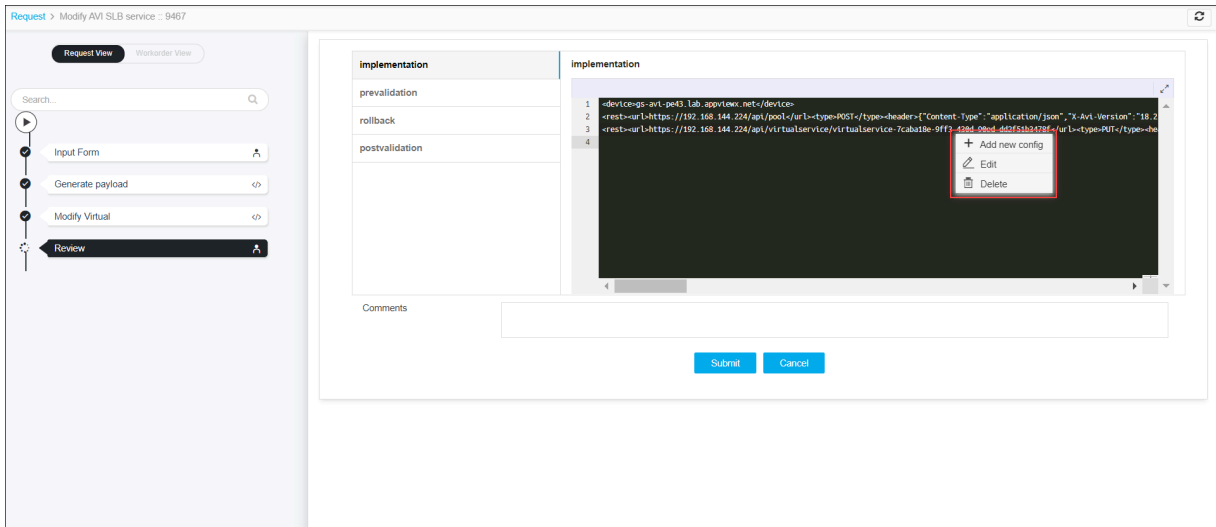


Note:


- 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:

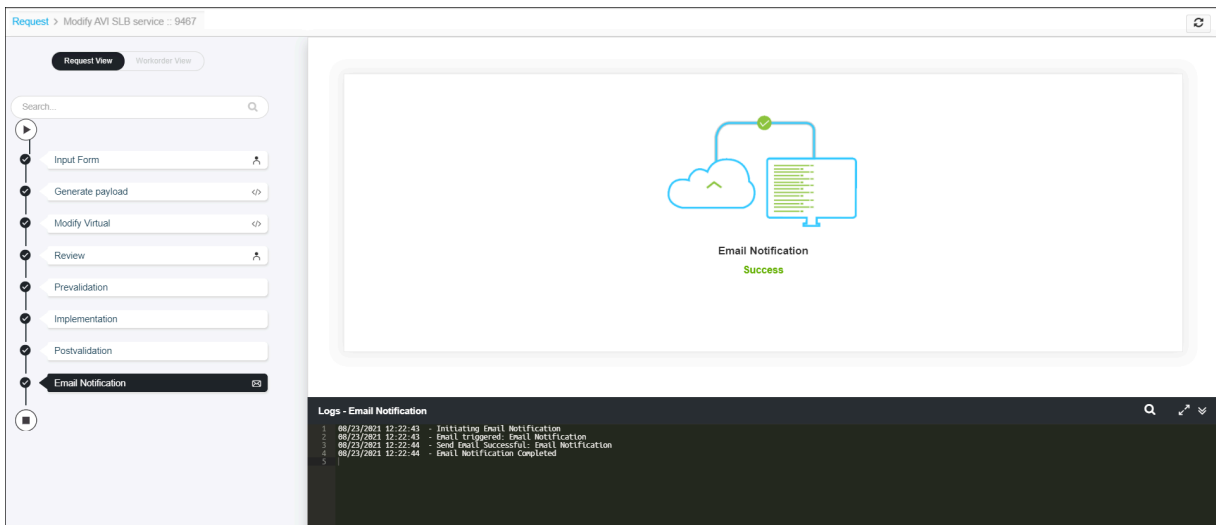
9. (Optional) If you need to update any data at this stage, you can do so by clicking the right-side of the mouse on the data and selecting the desired option.




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

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

- Click **Ok** to continue the workflow creation.
It takes a while to complete the request.
- 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.

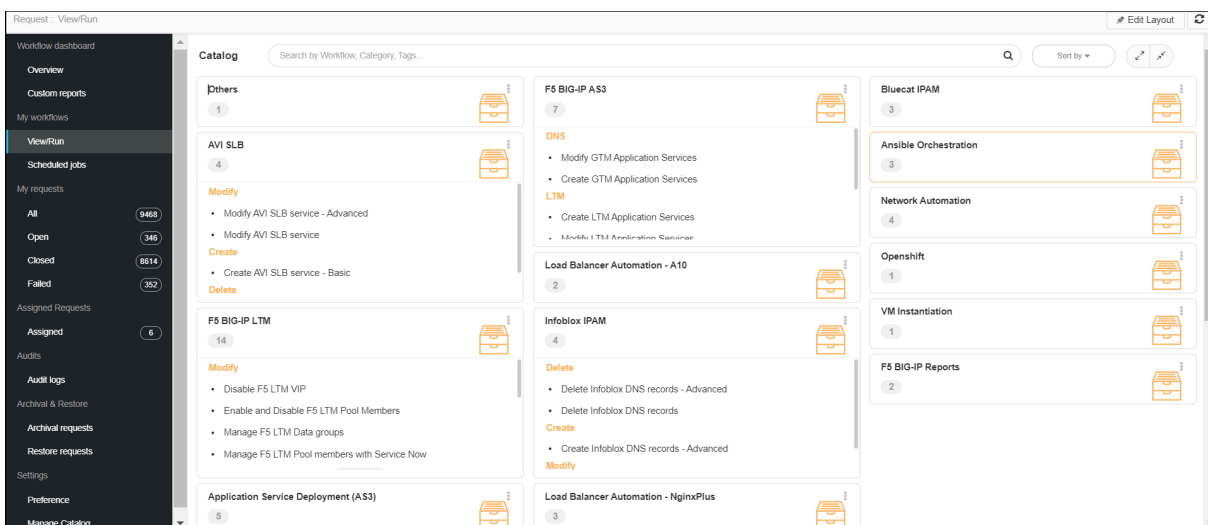
Modify AVI SLB service – Advanced

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.

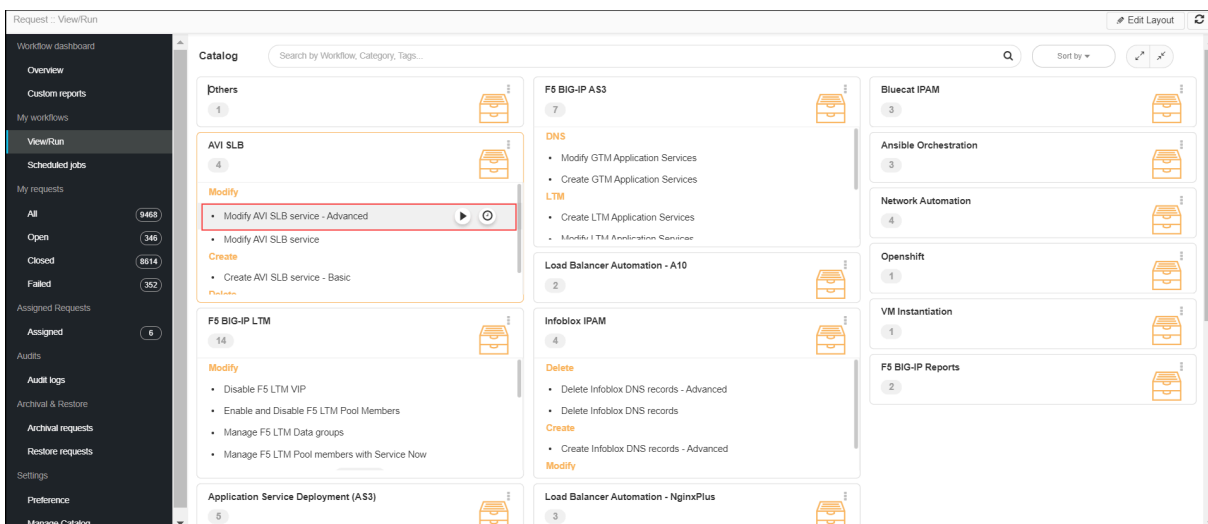
To run this workflow,

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.



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:



- 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.

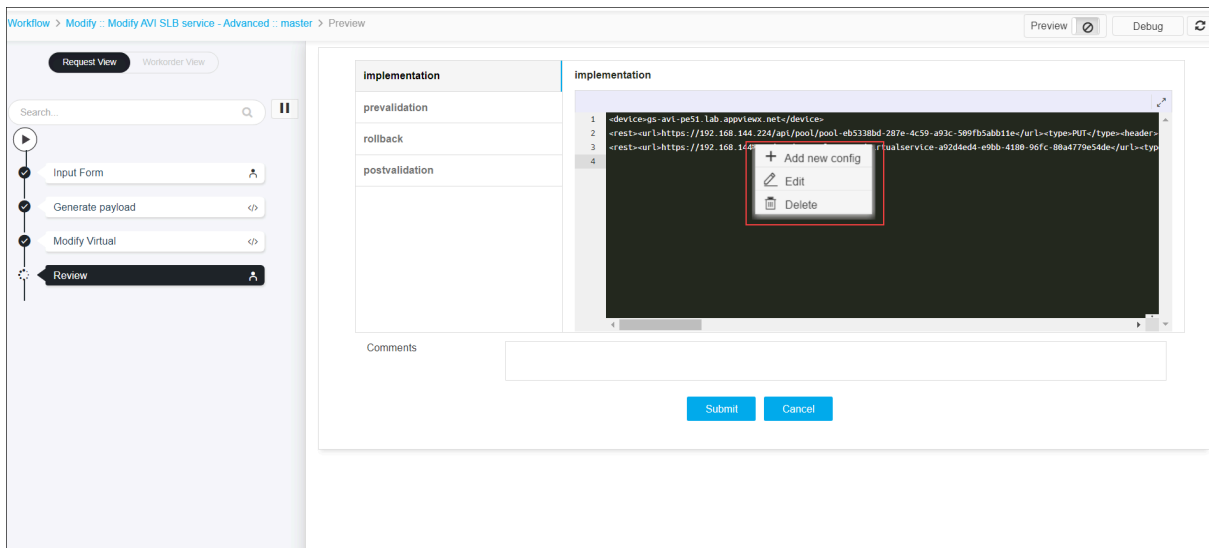


Note:

- 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.



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

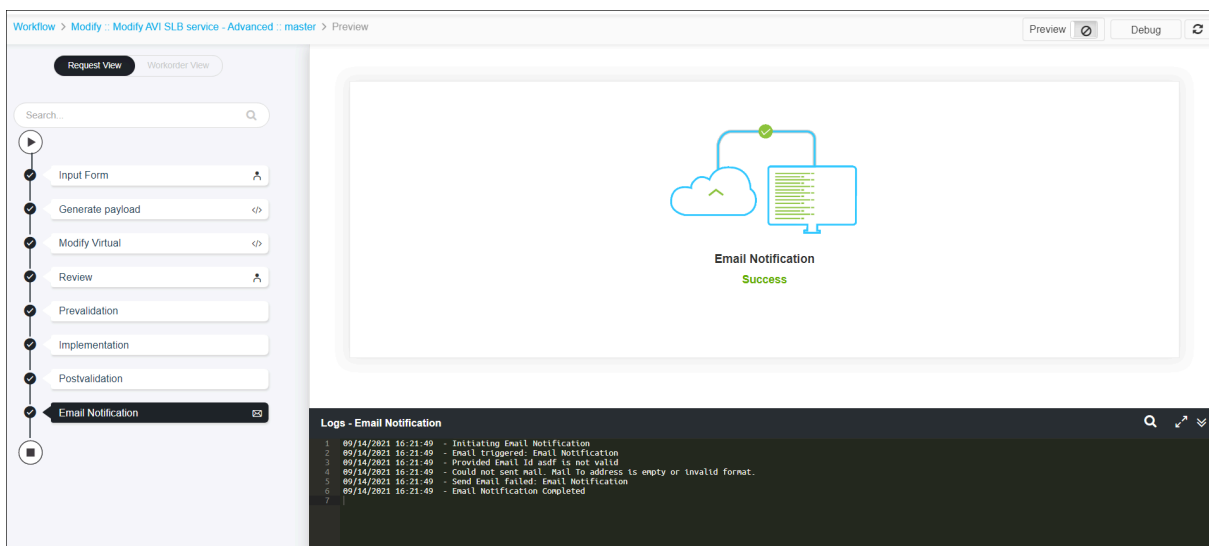
The Confirmation popup opens.

 **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.


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:

4. Provide the SLB service details are to be deleted.

The screenshot shows a web interface for deleting an AVI service. The breadcrumb path is 'Request > Delete AVI SLB service : FormBuilder'. The interface has two tabs: 'Request View' (selected) and 'Workorder View'. A search bar is present at the top left. A sidebar on the left contains a 'Delete AVI Form' button. The main content area is divided into two sections: 'Device Config' and 'VIP config'. The 'Device Config' section has four dropdown menus: 'Data Center' (None), 'Device name' (gs-avi-pe51.lab.appviewx.net), 'Cloud Name' (Default-Cloud), and 'Tenant Name' (admin). The 'VIP config' section has one dropdown menu: 'Virtual Service' (production_vs). At the bottom right, there are three buttons: 'Submit', 'Save Draft', and 'Cancel'.

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.

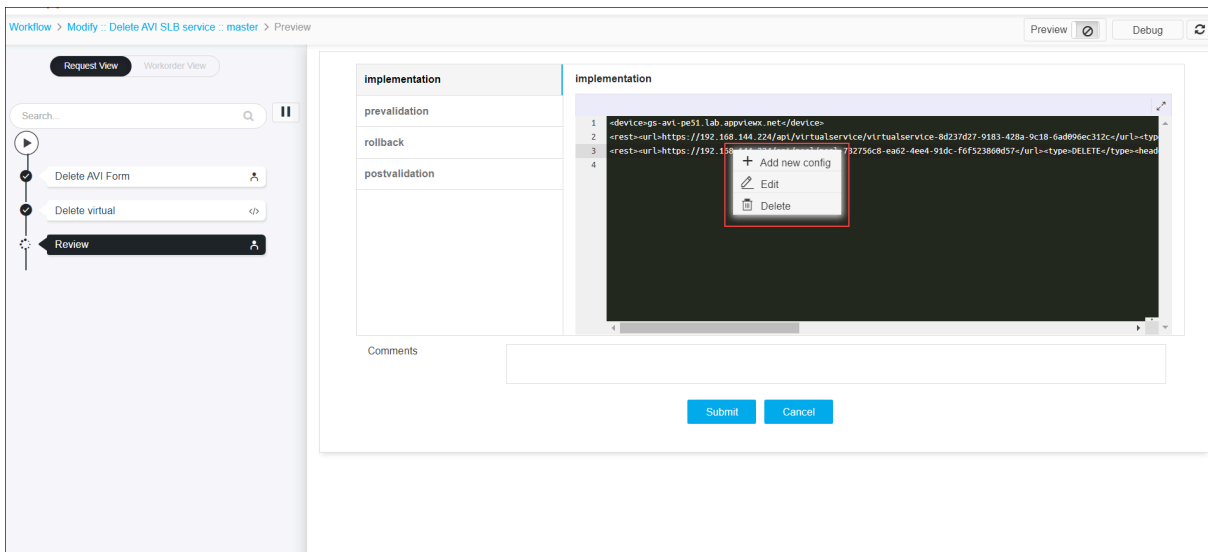


Note:

- 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.



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

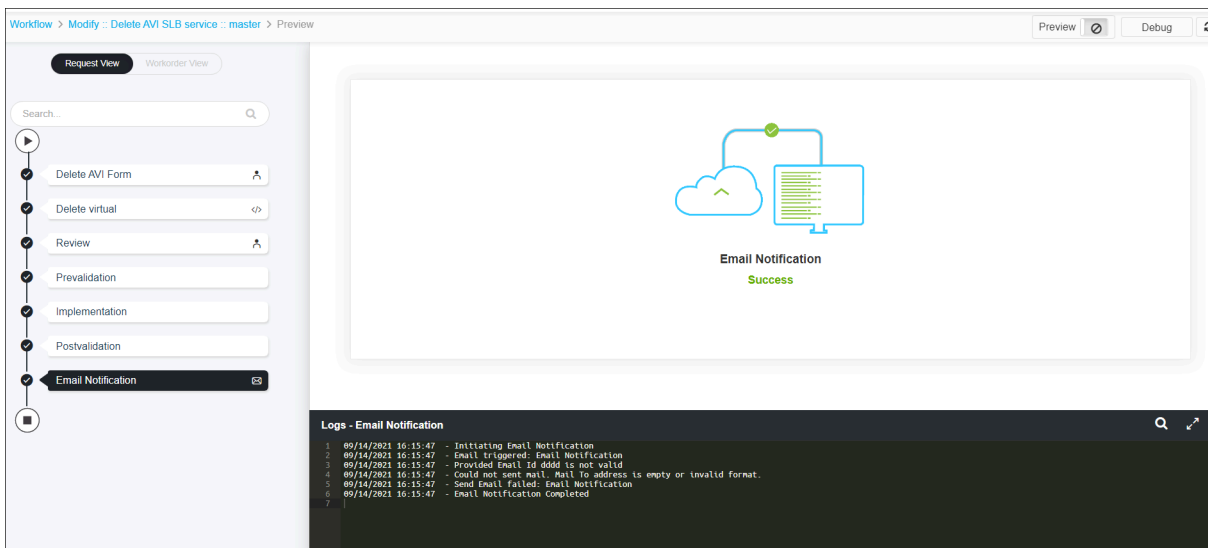
The Confirmation popup opens.

 **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.





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.


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.

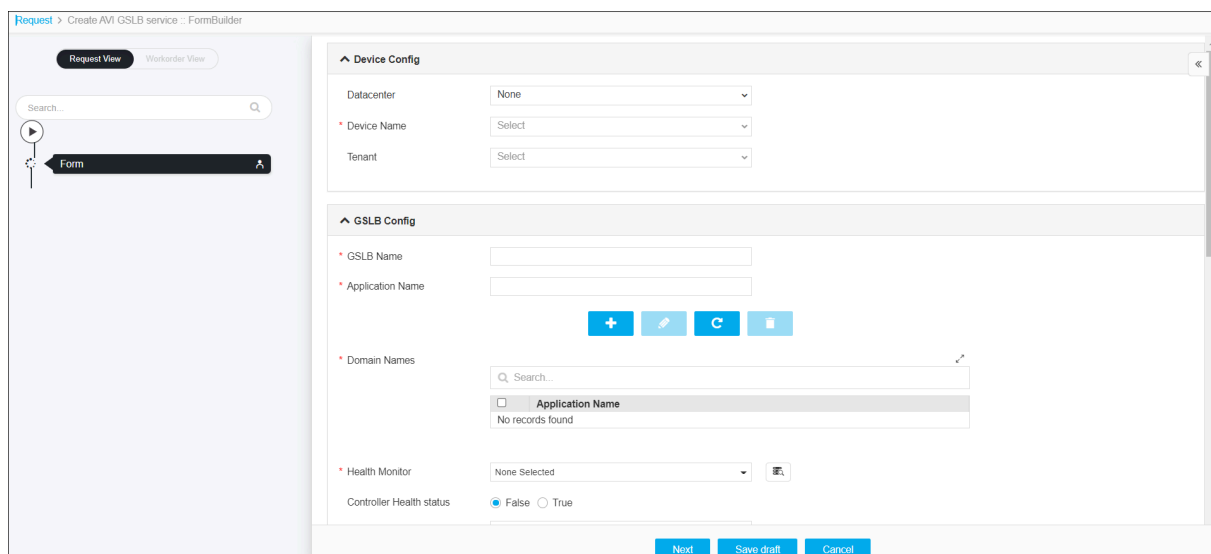
The Workflow Catalog page appears.

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.

^ Device Config

Datacenter ▼

* Device Name ▼

Tenant ▼

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.

^ GSLB Config

* GSLB Name

* Application Name

* Domain Names

<input type="checkbox"/>	Application Name
No records found	

* Health Monitor

Controller Health status False True

* Health Monitor Scope

Pool Load Balancing Algorithm

Site Persistence Enabled False True

* Pool Name

lb_algorithm

Pool Member Type IP Virtual Service

Pool Member IP

Pool Member Enabled True False

Priority

Ratio

Public Ip

Pool Members




<input type="checkbox"/>	Pool Name	lb_algorit...	Pool Member Ty...	Pool Member...	Pool Membe...
No records found					


TTL served by DNS Service

Down Response


Number of IPs returned by DNS servs

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. <div data-bbox="399 663 740 726" style="border: 1px solid black; padding: 2px; display: inline-block; margin-top: 10px;">  </div>
*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, <div data-bbox="607 900 732 999" style="border: 1px solid black; padding: 2px; display: inline-block; margin-top: 10px;">  </div> 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: <ul style="list-style-type: none"> • 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.

Field	Description
Pool Member Type	Select the virtual configuration type. The possible values are: <ul style="list-style-type: none"> • 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:



- 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.

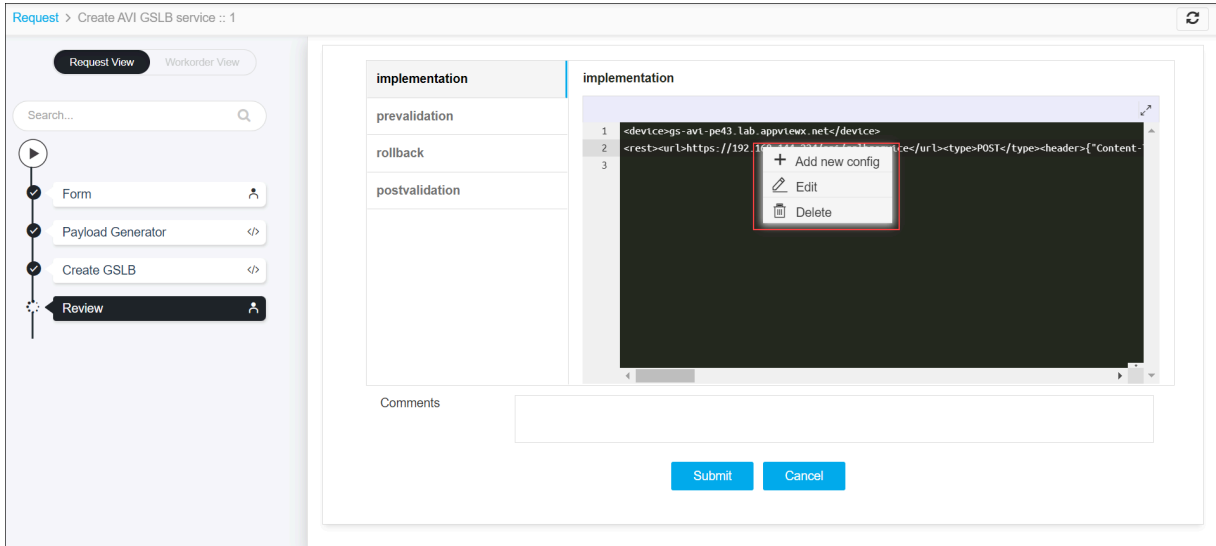


Note:

- 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.



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.

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:**



- 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.

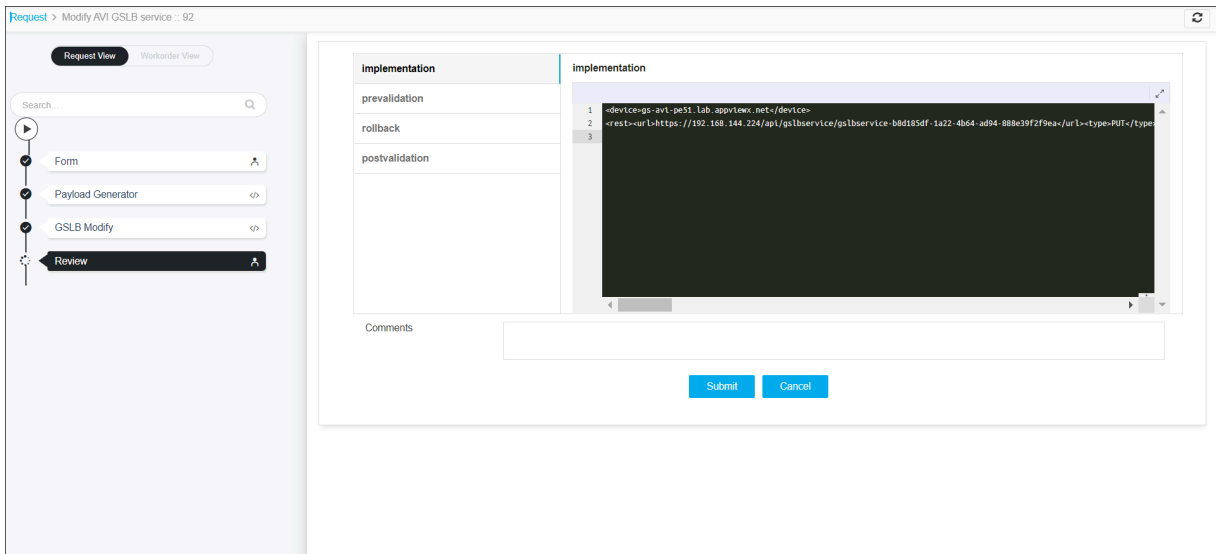
The validation starts automatically and reaches the Review stage.



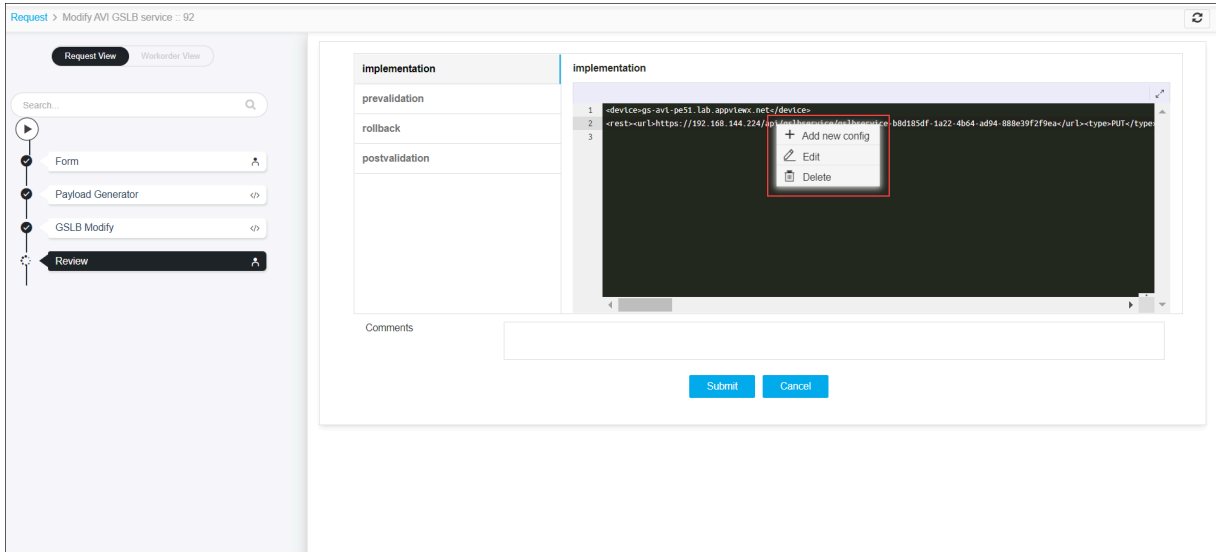
Note:

- 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:



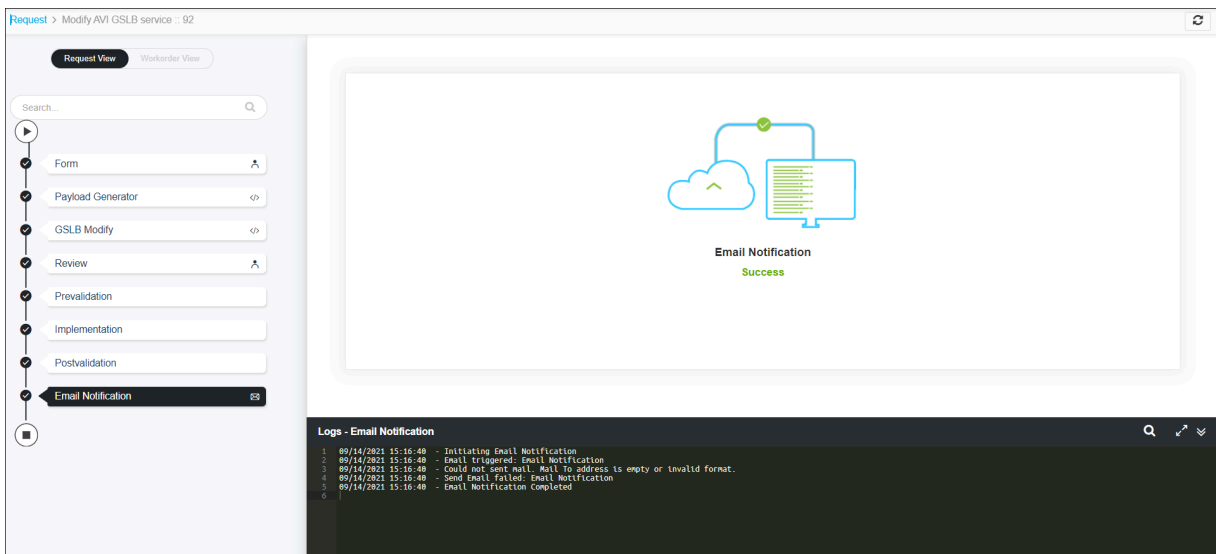
9. (Optional) If you need to update any data at this stage, you can do so by clicking the right-side of the mouse on the data and selecting the desired option.



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.

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.

The screenshot shows a web interface for deleting a GSLB service. The breadcrumb path is 'Request > Delete AVI GSLB service - FormBuilder'. The interface has two tabs: 'Request View' (selected) and 'Workorder View'. On the left, there is a search bar and a 'Form' button. The main area is titled 'GSLB Delete' and contains the following fields:

- Datacenter: None
- Device Name: gs-avi-pe51.lab.appviewx.net
- Tenant: admin
- GSLB Name: testappviewx

At the bottom of the form, there are three buttons: 'Next', 'Save draft', and 'Cancel'.

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.

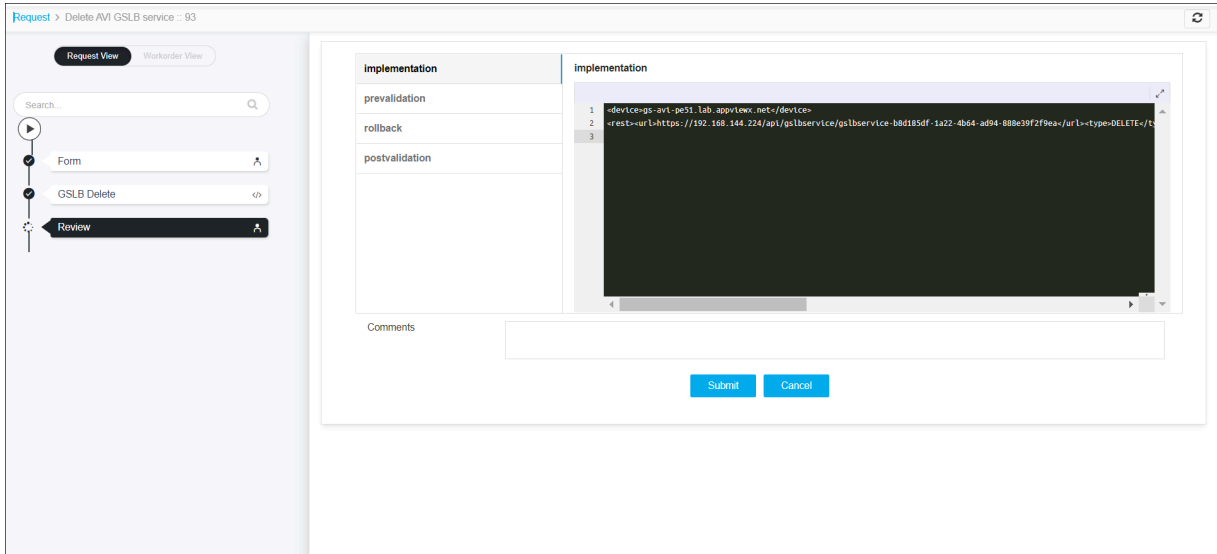
The validation starts automatically and reaches the Review stage.



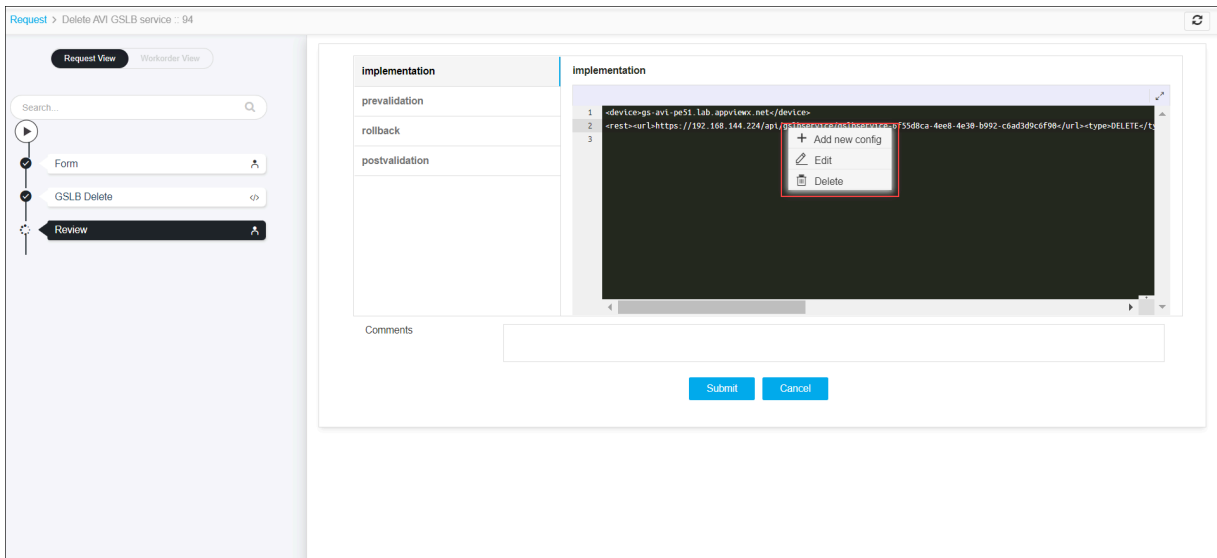
Note:

- 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:



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.



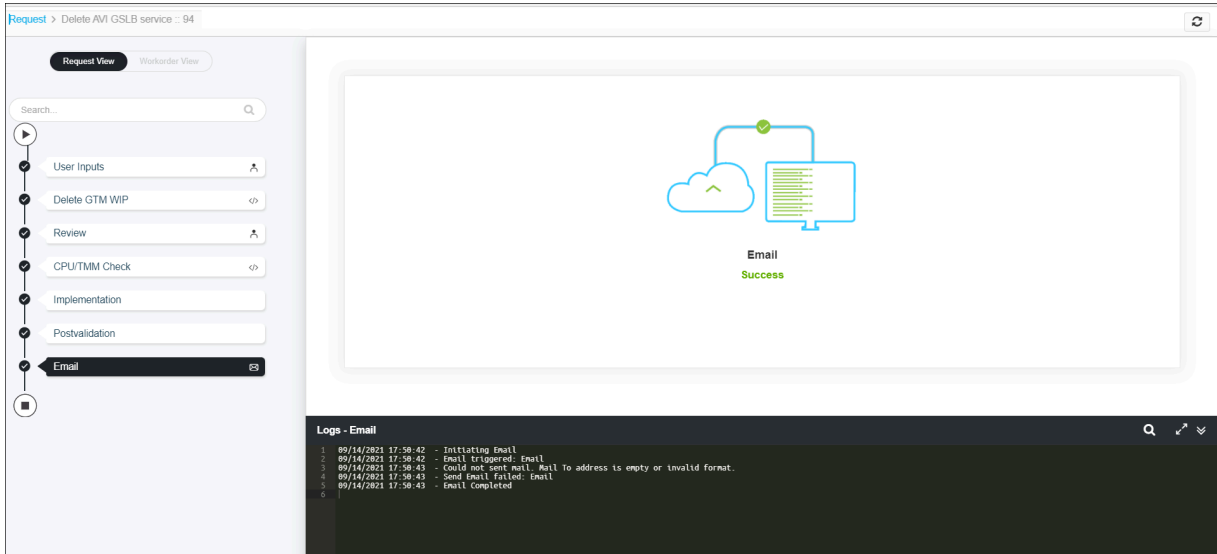
9. After the review, click the **Submit** button.
The Confirmation popup opens.



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.



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.


Chapter 8: Infoblox IPAM

- Create Infoblox DNS Records – Advanced
- Modify Infoblox DNS Record – Advanced
- Delete Infoblox DNS Records – Advanced
- Modify Infoblox DNS Records
- Delete Infoblox DNS Records

Create Infoblox DNS Records – Advanced

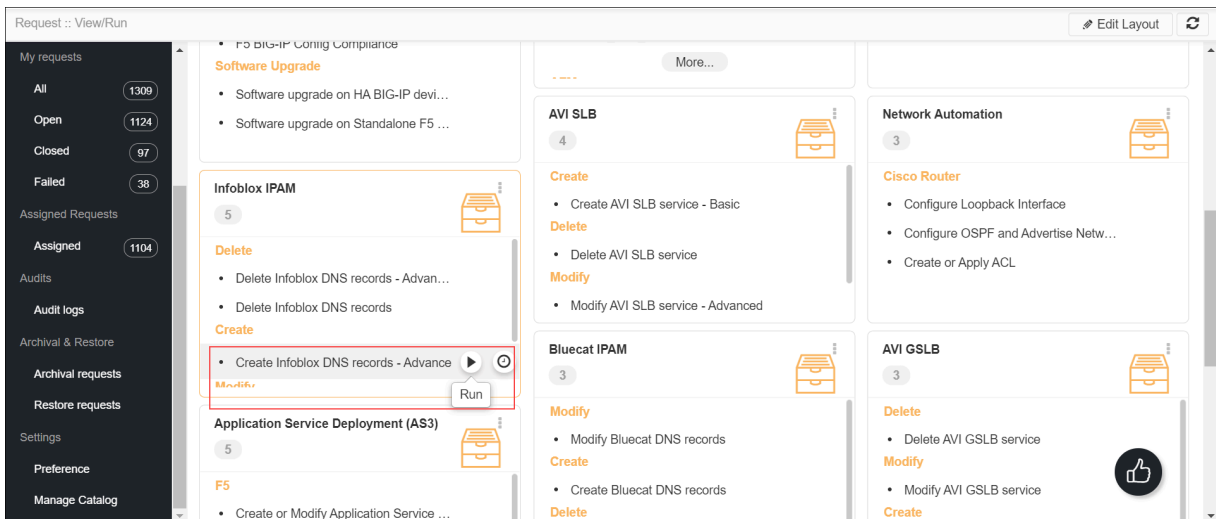
This workflow creates records in Infoblox and multiple record types (A, HOST, PTR, CNAME, TXT, MX) using the table. In the case of A, Host, and PTR record creation, IP can be fetched and reserved on the fly.

To run this workflow,

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

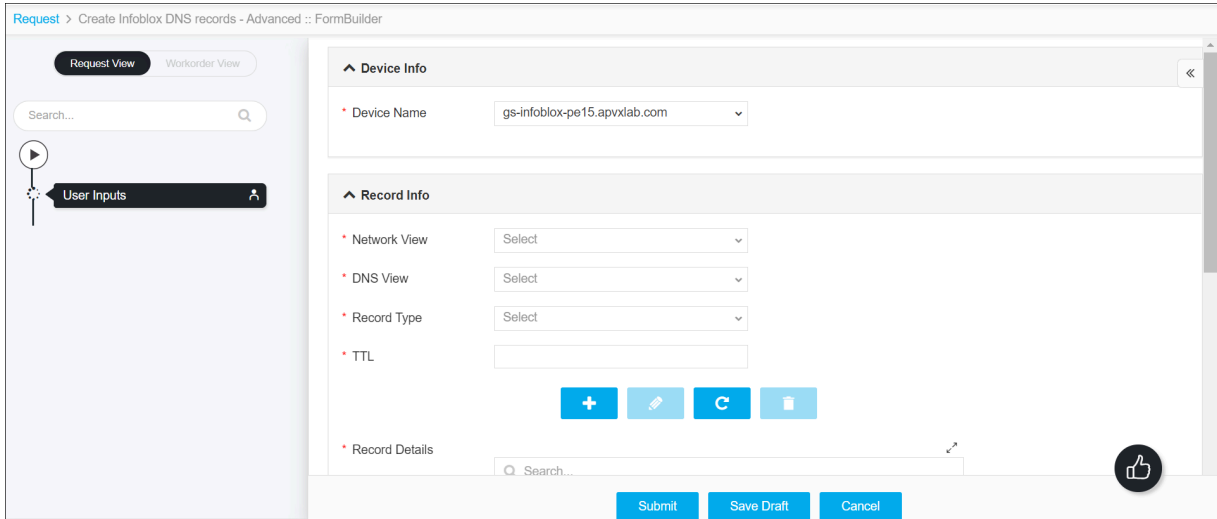
The Workflow Catalog page appears.

2. In the Workflow Catalog page, hover over the **Create Infoblox DNS records – Advanced** workflow. The Run and Schedule buttons are shown.

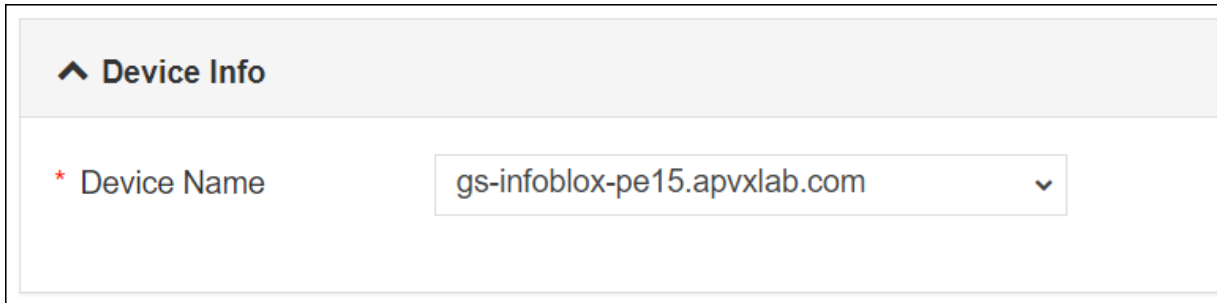


3. Click the Run  button.

The Form Input page opens:



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:

^ Record Info

* Network View

* DNS View

* Record Type

* Zone

* Name ⓘ

* IP Choice Manual
 Next Available IP from InfoBlox

* IP Address ✖

* TTL

+
✎
↻
🗑

* Record Details

<input type="checkbox"/>	Network Vi...	DNS View	Record Ty...	Zone	Name
No records found					

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.

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.

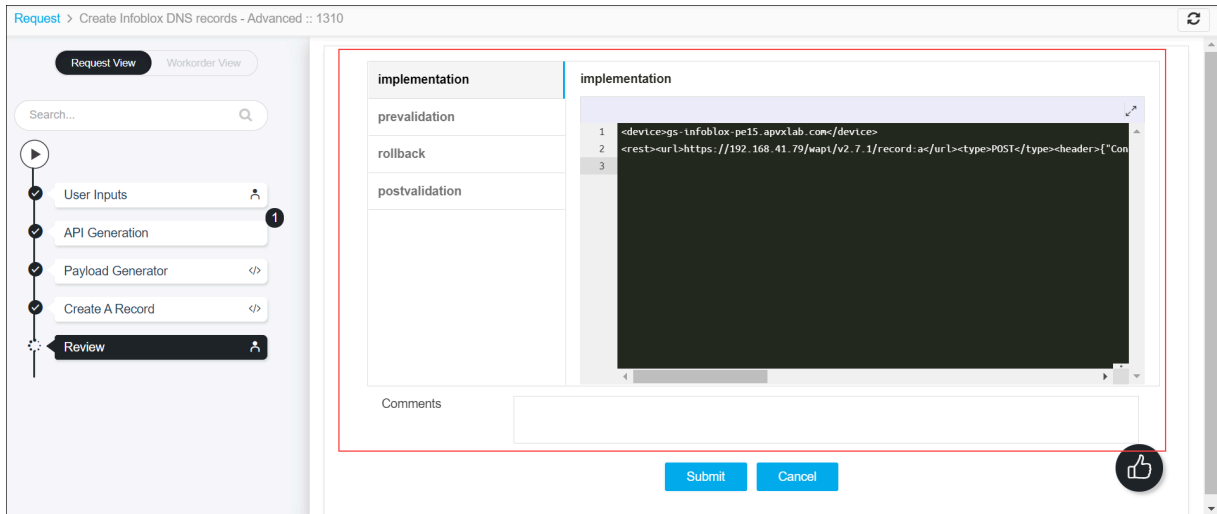
The validation starts automatically and reaches the **Review** stage.



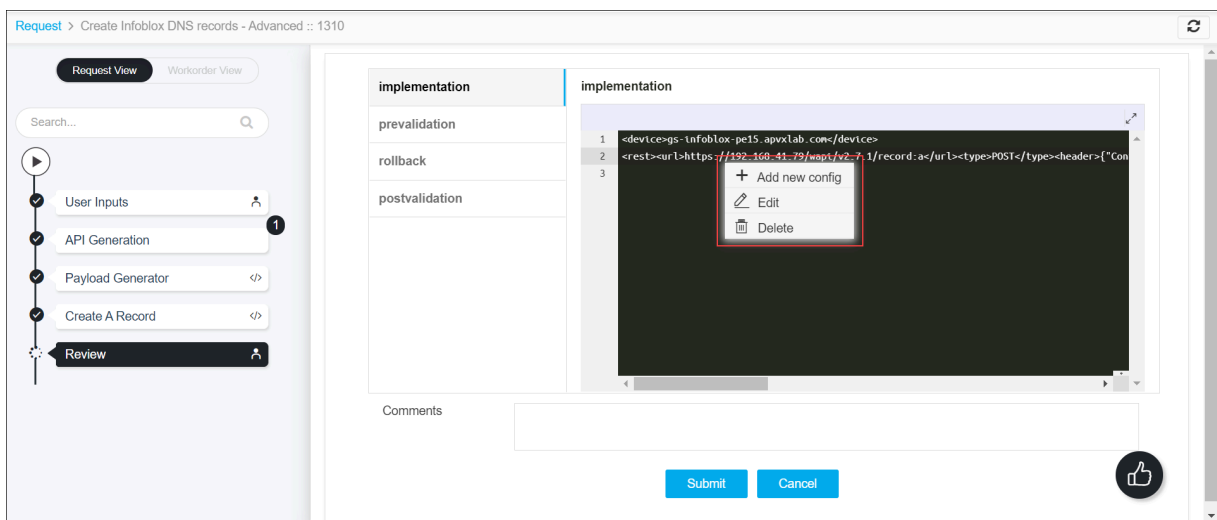
Note:

- 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:




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.




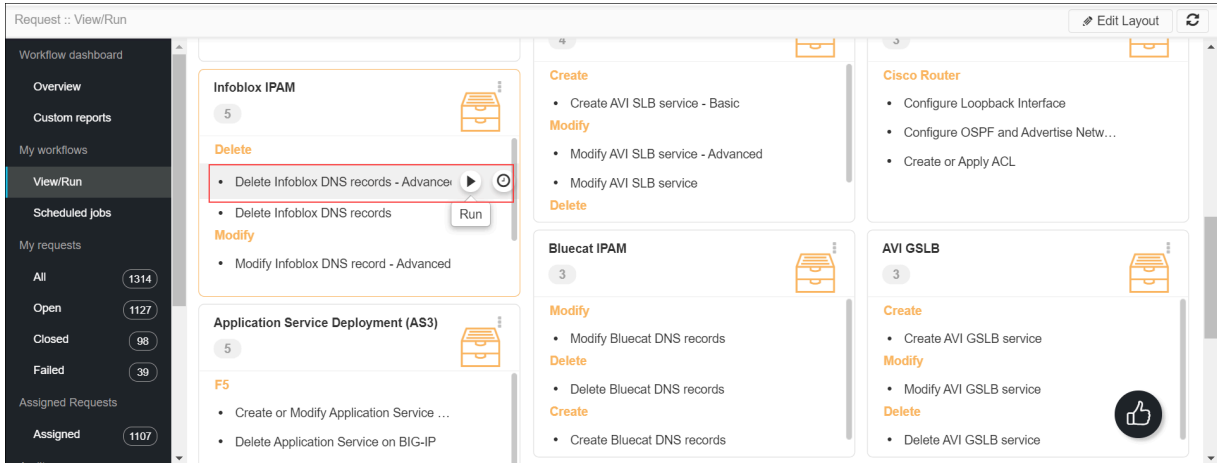
Note: The stages of the request are shown in the left side of the screen. To view a particular stage of the request, click the respective stage.

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.

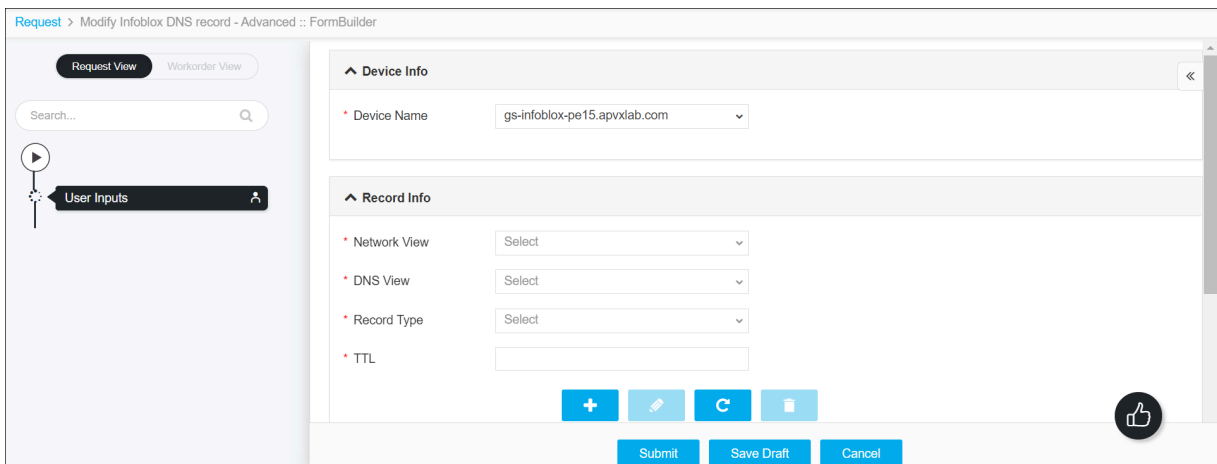
To run this workflow,

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 are shown.



3. Click the  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.

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

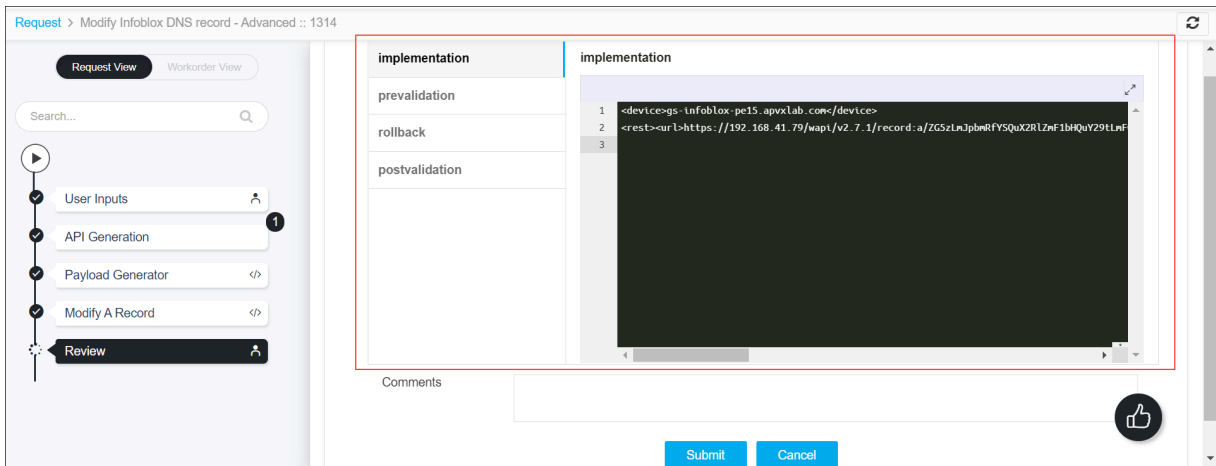
The validation starts automatically and reaches the **Review** stage.



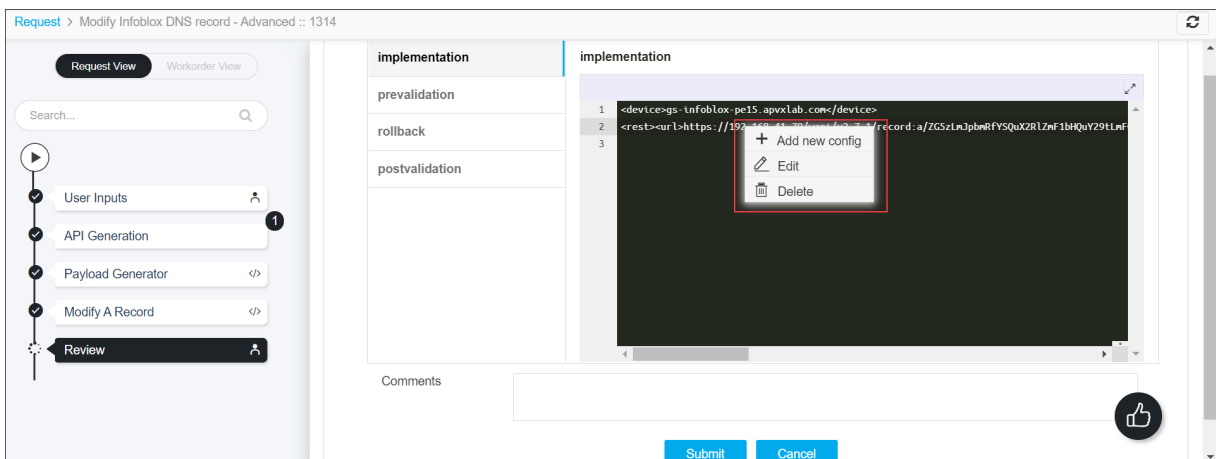
Note:

- 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 pop-up 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.




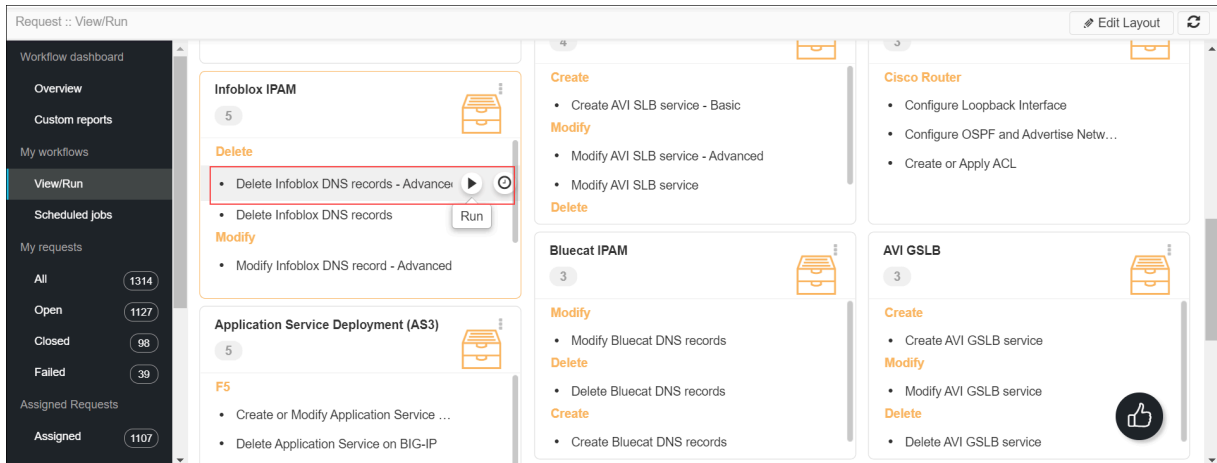
Note: The stages of the request are shown in the left side of the screen. To view a particular stage of the request, click the respective stage.

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.

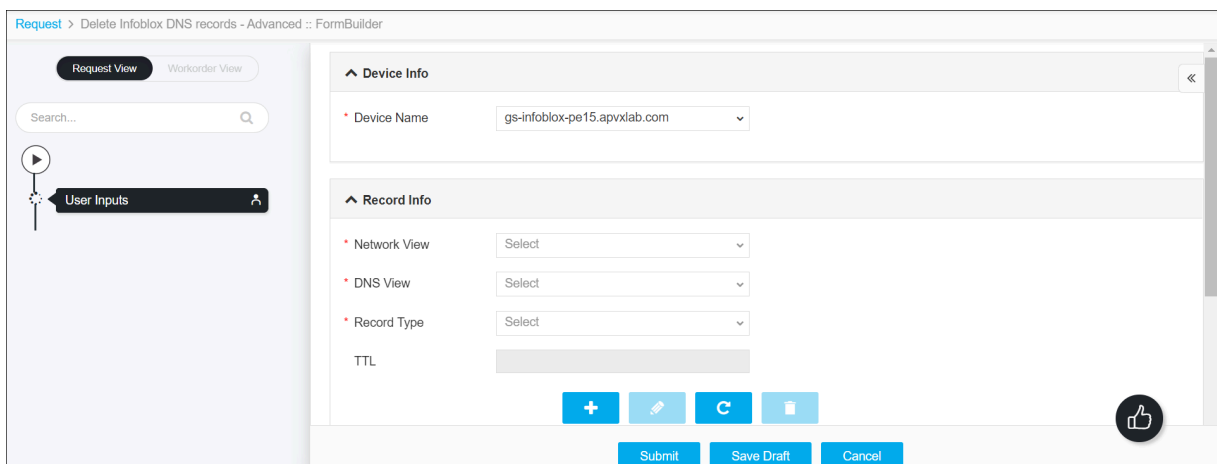
To run this workflow,

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.



3. Click the  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.

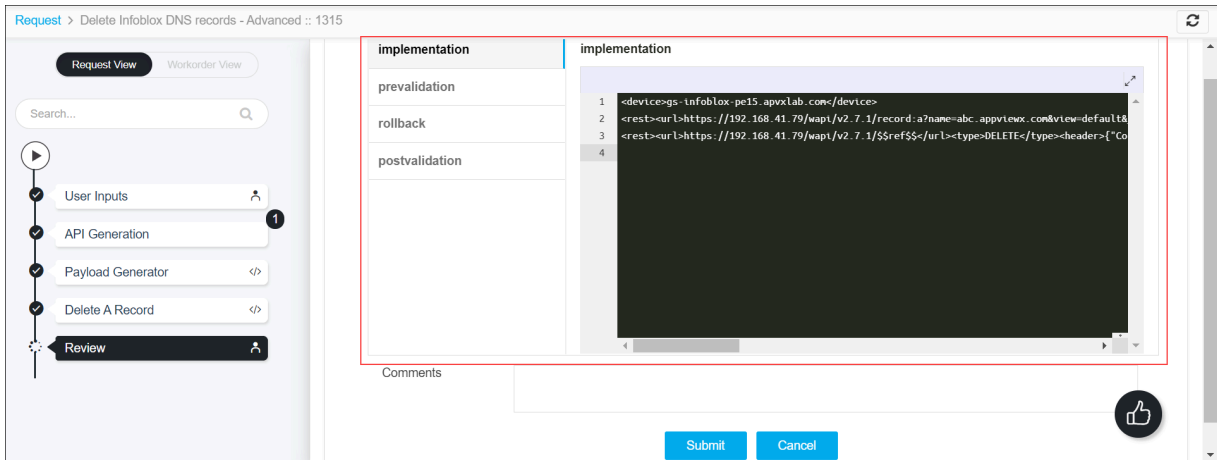
The validation starts automatically and reaches the **Review** stage.



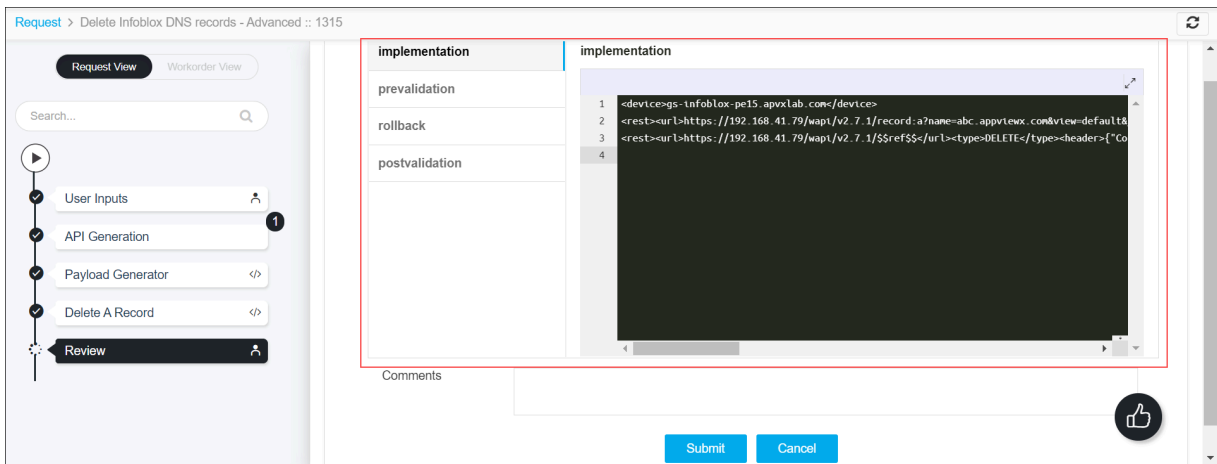
Note:

- 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.



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.

The screenshot displays the 'Request' interface for 'Delete Infoblox DNS records - Advanced :: 1315'. On the left, a vertical list of stages is shown, with 'Email' selected and highlighted. The main area shows a diagram of the workflow with a green checkmark and the text 'Email Success'. Below this, a 'Logs - Email' section shows the following log entries:

```

1 07/06/2021 05:19:47 - Initiating Email
2 07/06/2021 05:19:47 - Email triggered: Email
3 07/06/2021 05:19:47 - Send Email Successful: Email
4 07/06/2021 05:19:47 - Email Completed
5

```




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

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.

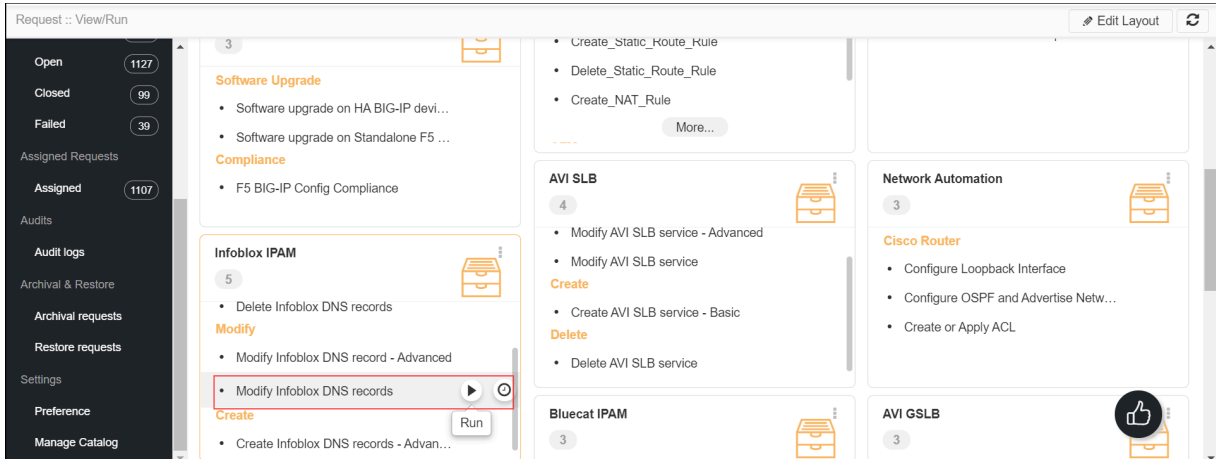
To run this workflow,

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

The Workflow Catalog page appears.

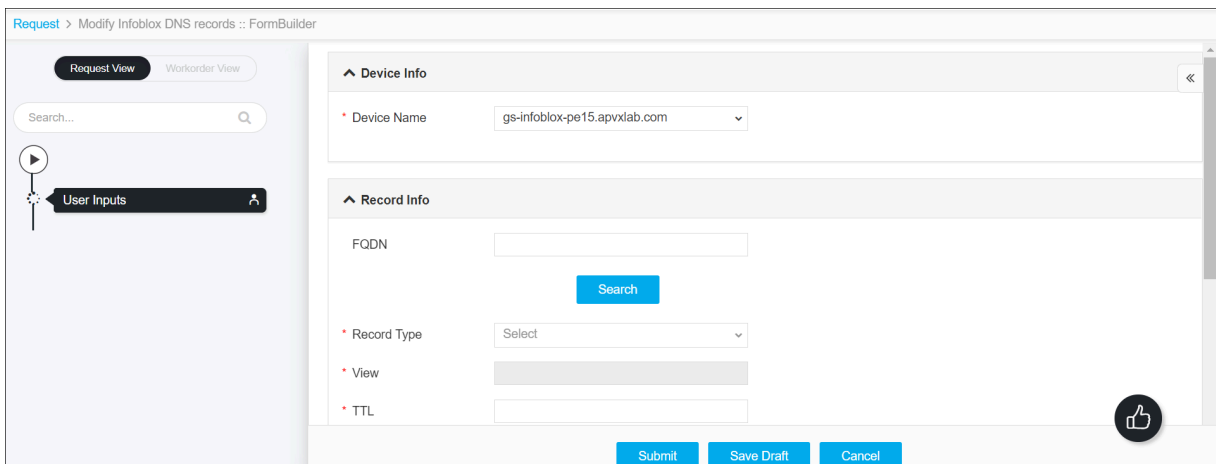
2. In the Workflow Catalog page, hover over the **Modify Infoblox DNS records** workflow.

The Run and Schedule buttons are shown.



3. Click the  button.

The Form Input page opens:



4. Provide the necessary details of DNS record for a device.

Request > Modify Infoblox DNS records :: FormBuilder

Request View Workorder View

Search...

User Inputs

Record Info

FQDN testqa1.appviewx.com

Search

Record Type Select

View

TTL

+ Edit Refresh Delete

Record Details

Search...

	FQDN	Record Ty...	View	Zone	Name
<input type="checkbox"/>	testqa1.ap...	A	default	appviewx...	testqa1

Submit Save Draft Cancel

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.

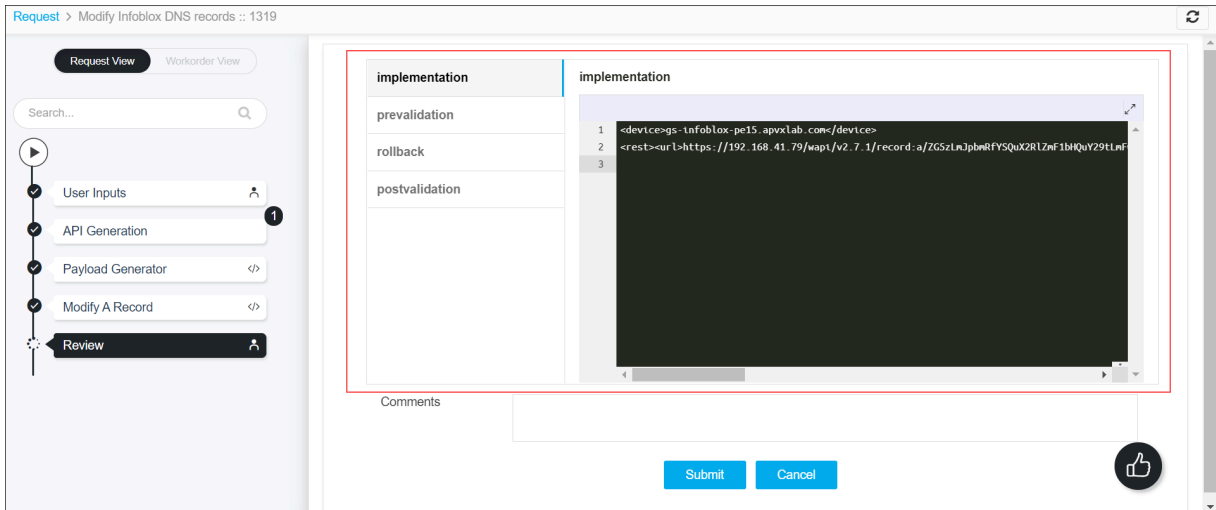
The validation starts automatically and reaches the **Review** stage.



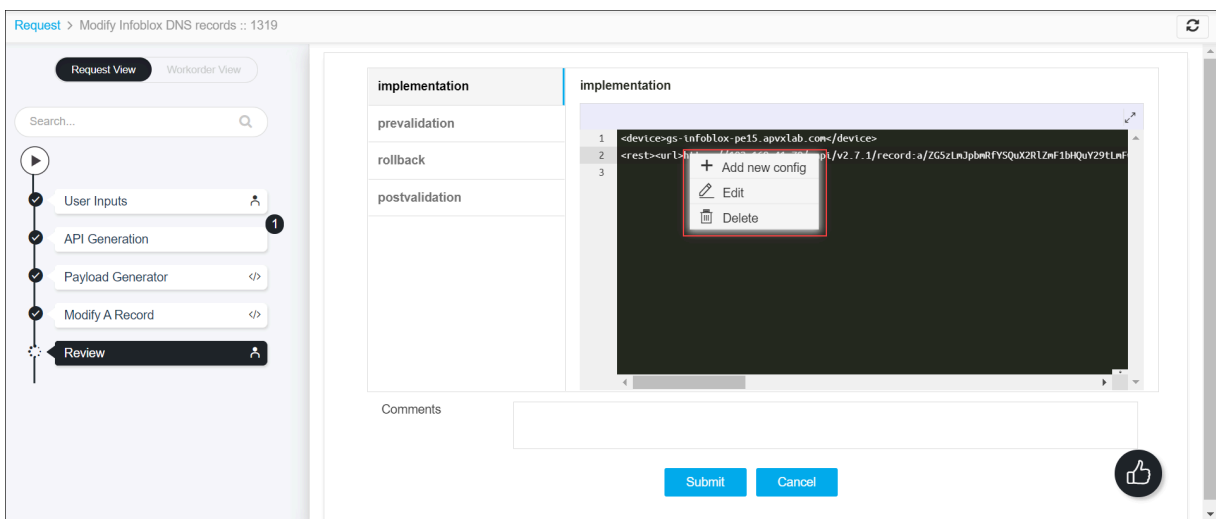
Note:

- 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.



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.

The screenshot displays the 'Request' page for 'Modify Infoblox DNS records :: 1319'. On the left, a vertical navigation pane lists the workflow stages: User Inputs, API Generation, Payload Generator, Modify A Record, Review, Prevalidation, Implementation, Postvalidation, and Email. The 'Email' stage is currently selected and highlighted. The main area shows a visual representation of the 'Email' stage with a cloud icon, a server icon, and a green checkmark, labeled 'Email Success'. Below this, a 'Logs - Email' section shows the following log entries:

```

1 07/06/2021 11:41:16 - Initiating Email
2 07/06/2021 11:41:16 - Email triggered: Email
3 07/06/2021 11:41:16 - Send Email Successful: Email
4 07/06/2021 11:41:16 - Email Completed
5

```




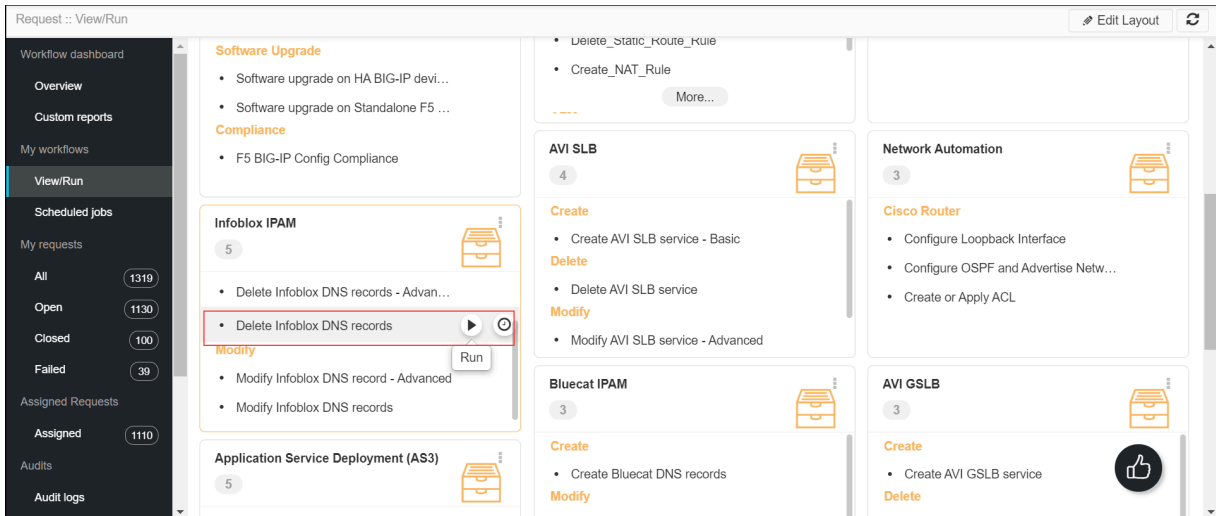
Note: The stages of the request are shown in the left side of the screen. To view a particular stage of the request, click the respective stage.

Delete Infoblox DNS Records

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.

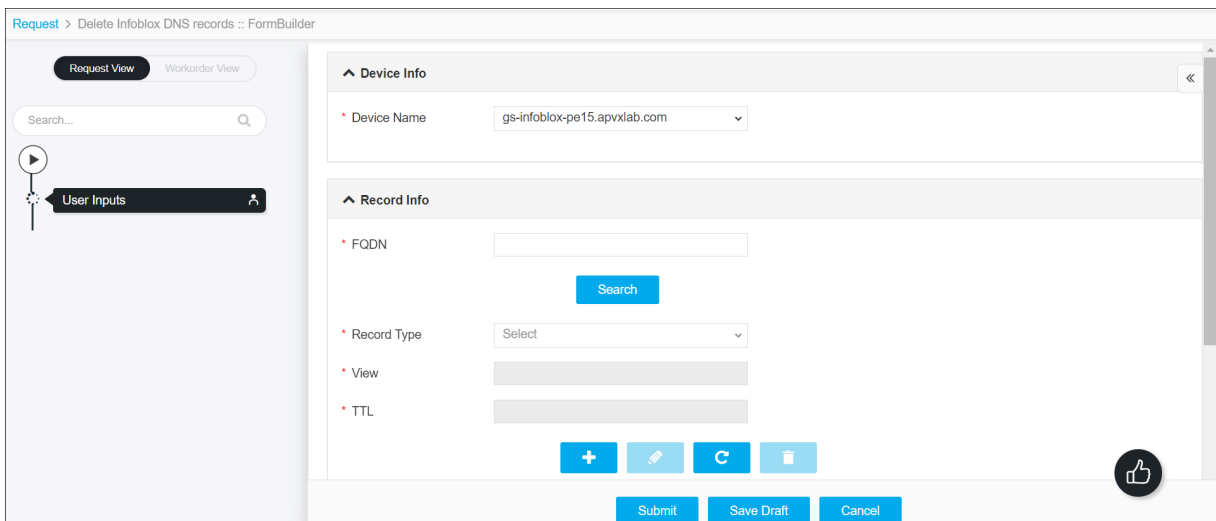
To run this workflow,

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.



3. Click the  button.

The Form Input page opens:



4. Provide the DNS record details of the device are to be deleted.

Request > Delete Infoblox DNS records :: FormBuilder

Request View Workorder View

Search...

User Inputs

Record Info

* FQDN testqa1.appviewx.com Search

* Record Type Select

* View

* TTL

+ Edit Refresh Delete

Record Details

Search...

<input type="checkbox"/>	FQDN	Record Ty...	View	Zone	Name	Mail De
<input type="checkbox"/>	testqa1.ap...	A	default	appviewx...	testqa1	

Submit Save Draft Cancel

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.

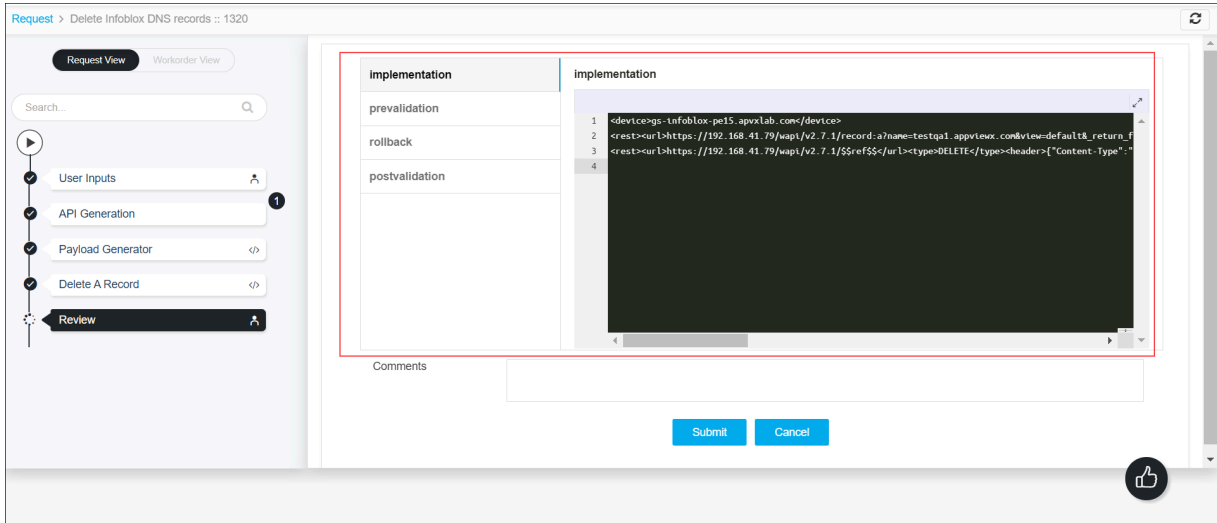
The validation starts automatically and reaches the **Review** stage.



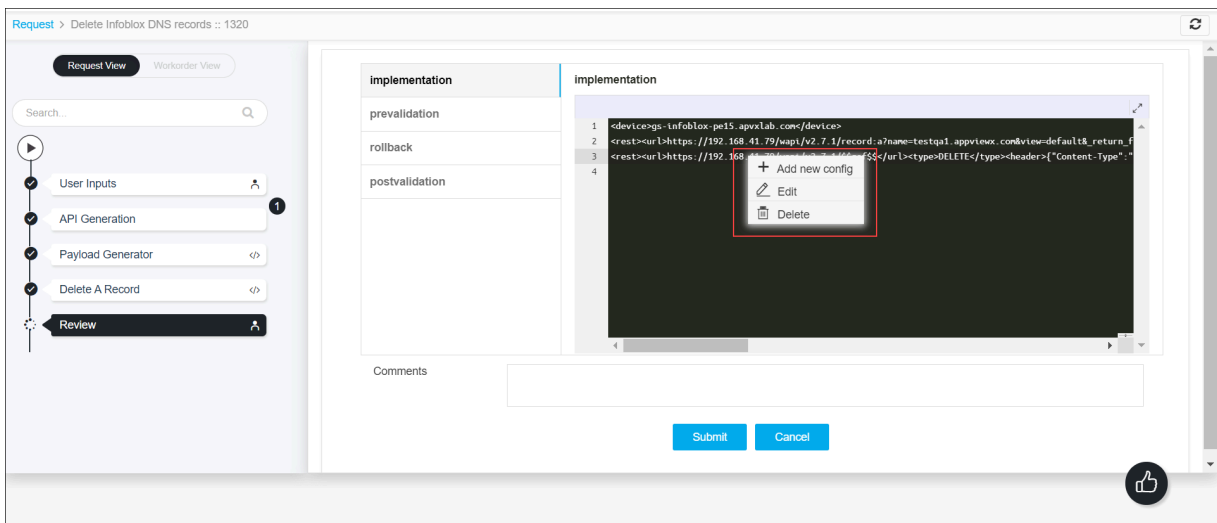
Note:

- 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.



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.

The screenshot displays the 'Request' workflow for 'Delete Infoblox DNS records :: 1320'. On the left, a vertical navigation pane lists the stages: User Inputs, API Generation, Payload Generator, Delete A Record, Review, Prevalidation, Implementation, Postvalidation, and Email. The 'Email' stage is selected and highlighted. The main workspace shows a diagram of a cloud connected to a server, with a green checkmark and the word 'Success' below it. Below the diagram is a 'Logs - Email' section with the following text:

```

1 07/06/2021 11:58:06 - Initiating Email
2 07/06/2021 11:58:06 - Email triggered: Email
3 07/06/2021 11:58:07 - Send Email Successful: Email
4 07/06/2021 11:58:07 - Email Completed
5

```



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.


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.

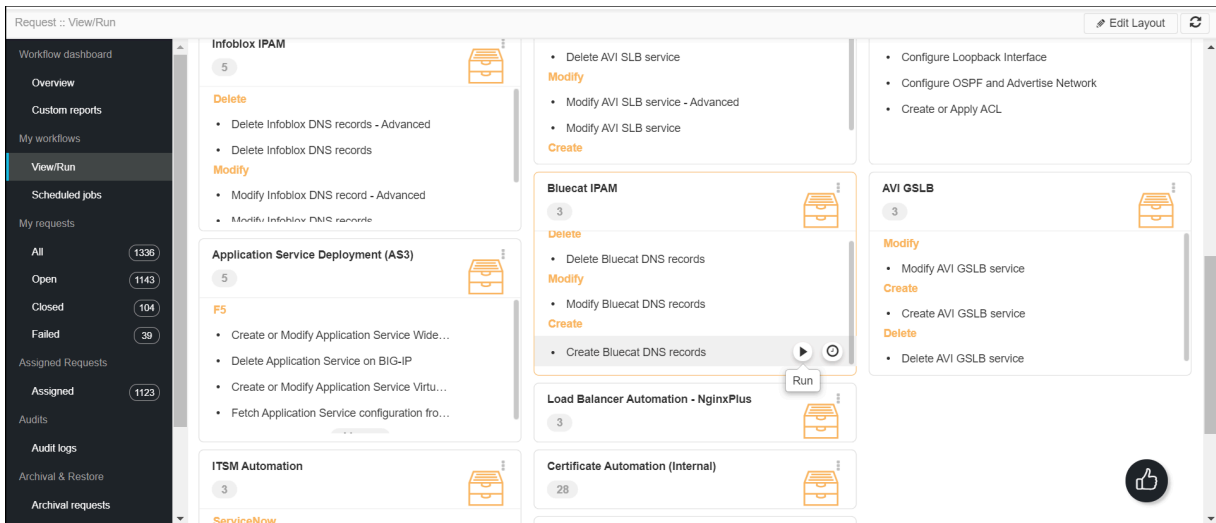
To run this workflow,

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:

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:

^ **Record Info**

* Network View ▾

* DNS View ▾

* Record Type ▾

* Zone ▾

* Name ⓘ

* IP Choice Manual
 Next Available IP from InfoBlox

* IP Address ✖

* TTL

+
✎
↻
🗑

* Record Details

<input type="checkbox"/>	Network Vi...	DNS View	Record Ty...	Zone	Name
No records found					

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.

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:



- 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**.

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.

The screenshot displays the 'Request View' for a workflow titled 'Create Bluecat DNS records :: 950'. The left sidebar shows a sequence of workflow stages: User Inputs, API Generation, Payload Generator, Create A Record, Review, Bluecat token Renewal, Prevalidation, Implementation, Postvalidation, and Email. The 'Email' stage is currently selected and highlighted. The main workspace shows a diagram of a cloud connected to a server, with a green checkmark and the text 'Email Success'. Below the workspace, a 'Logs - Email' section shows the following log entries:

```

1 07/07/2021 14:27:15 - Initiating Email
2 07/07/2021 14:27:15 - Email triggered: Email
3 07/07/2021 14:27:15 - Send Email Successful: Email
4 07/07/2021 14:27:17 - Email 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.

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.

Request :: View/Run

Workflow dashboard

- Overview
- Custom reports
- My workflows
- View/Run**
- Scheduled jobs
- My requests
 - All (1345)
 - Open (1151)
 - Closed (104)
 - Failed (40)
- Assigned Requests
 - Assigned (1131)
- Audits
- Audit logs
- Archival & Restore
- Archival requests

Software upgrade on Standalone F5 devices

Infoblox IPAM (5)

Delete

- Delete Infoblox DNS records - Advanced
- Delete Infoblox DNS records

Modify

- Modify Infoblox DNS record - Advanced
- Modify Infoblox DNS records

Application Service Deployment (AS3) (5)

F5

- Create or Modify Application Service Wide...
- Delete Application Service on BIG-IP
- Create or Modify Application Service Virtu...
- Fetch Application Service configuration fro...

AVI SLB (4)

- Modify AVI SLB service - Advanced
- Modify AVI SLB service

Delete

- Delete AVI SLB service

Create

- Create AVI SLB service - Basic

Bluecat IPAM (3)

Create

- Create Bluecat DNS records

Modify

- Modify Bluecat DNS records

Delete

- Delete Bluecat DNS records

Run

Load Balancer Automation - NginxPlus (3)

Network Automation (3)

Cisco Router

- Configure Loopback Interface
- Configure OSPF and Advertise Network
- Create or Apply ACL

AVI GSLB (3)

Delete

- Delete AVI GSLB service

Modify

- Modify AVI GSLB service

Create

- Create AVI GSLB service

3. Click the Run  button.

The Form Input page opens:

Request > Modify Bluecat DNS records :: FormBuilder

Request View Workorder View

Search...

User Inputs

Device Info

- Device Name: gs-bluecat.avxlab.com

Record Info

- Configuration: Select
- DNS View: Select
- Record Type: Select
- TTL:

+ Edit Refresh Delete

Record Details

Search...

Configurati...	DNS View	Record Ty...	Zone	Name	Mail D
No records found					

Submit Save Draft Cancel

4. Provide the necessary details of DNS records for a device.

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.

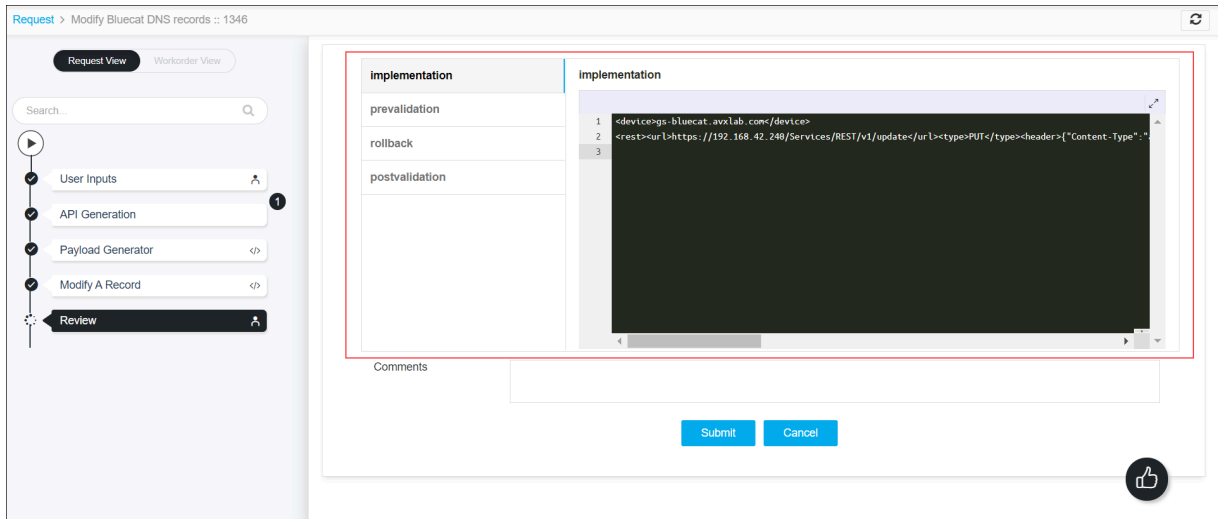
The validation starts automatically and reaches the **Review** stage.



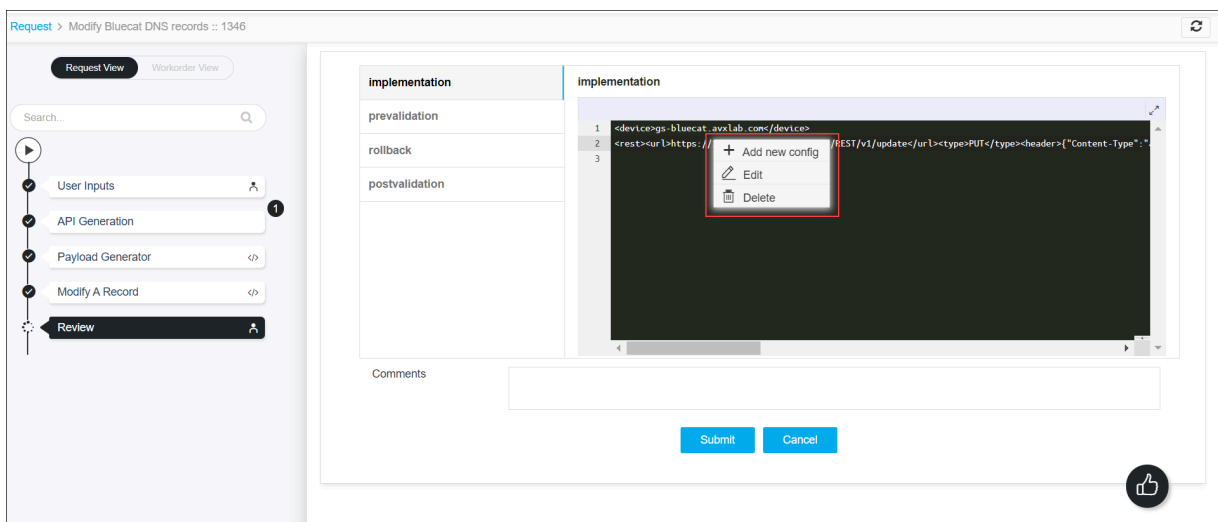
Note:

- 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.



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.




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.

The screenshot shows the 'View/Run' interface of the BlueCat IPAM system. On the left is a navigation sidebar with options like 'Workflow dashboard', 'Overview', 'Custom reports', 'My workflows', 'View/Run', 'Scheduled jobs', 'My requests', 'Assigned Requests', 'Audits', 'Audit logs', 'Archival & Restore', and 'Archival requests'. The main area displays several automation workflow cards: 'Software upgrade on Standalone F5 devices', 'Infoblox IPAM', 'Application Service Deployment (AS3)', 'AVI SLB', 'Bluecat IPAM', 'Network Automation', and 'AVI GSLB'. The 'Bluecat IPAM' card is highlighted with a red box, showing a 'Delete' action for 'Delete Bluecat DNS records' with a 'Run' button next to it.

3. Click the  button.

The Form Input page opens:

The screenshot shows the 'Delete Bluecat DNS records :: FormBuilder' page. The page has a 'Request View' and 'Workorder View' toggle. A search bar is present. The main form area is divided into sections: 'Device Info' with a 'Device Name' dropdown set to 'gs-bluecat.avxlab.com'; 'Record Info' with dropdowns for 'Configuration', 'DNS View', and 'Record Type', and a 'TTL' input field; and 'Record Details' which is currently empty. At the bottom, there are 'Submit', 'Save Draft', and 'Cancel' buttons.

4. Provide the necessary details of DNS records that 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.

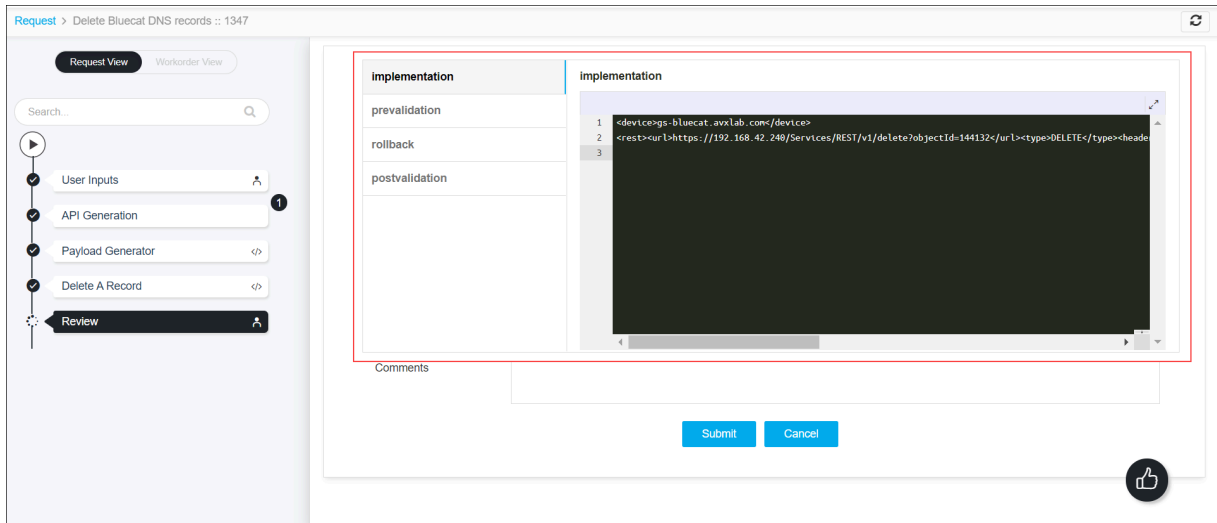
The validation starts automatically and reaches the **Review** stage.



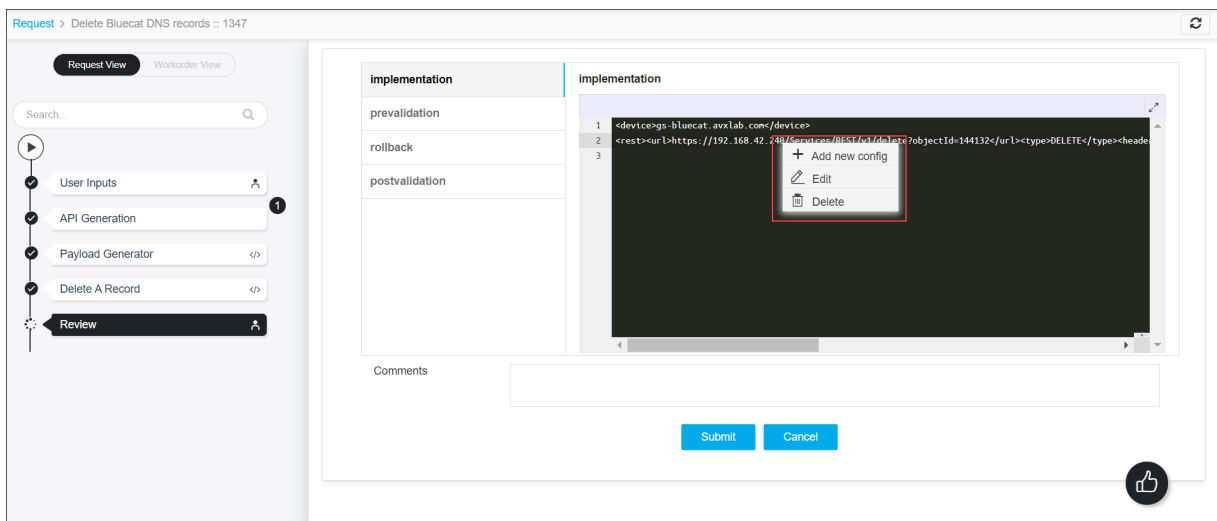
Note:

- 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.



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

The Confirmation popup opens.

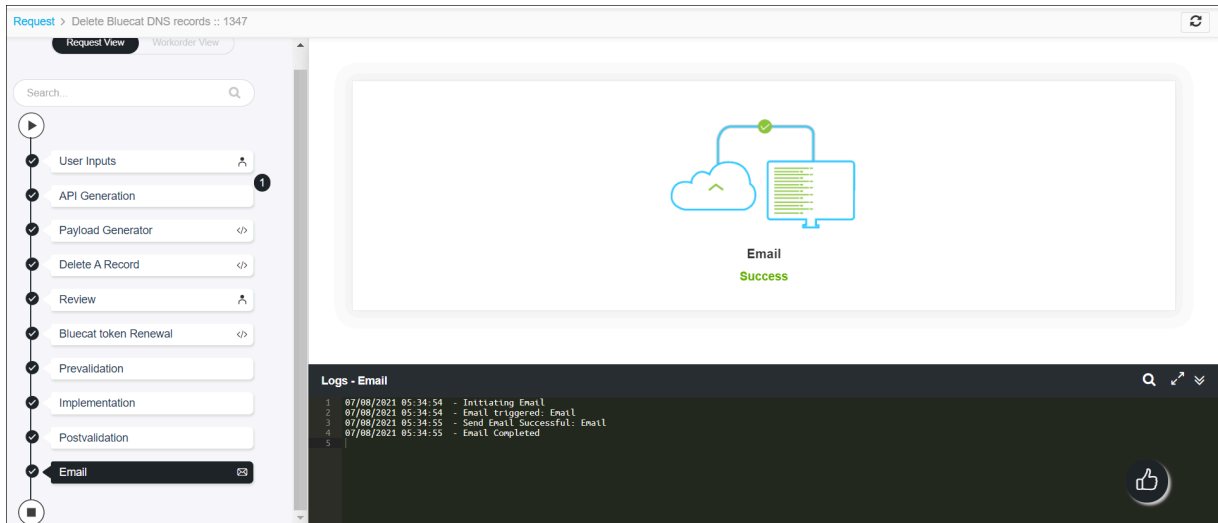


Note: Click Cancel to stop running the workflow creation.

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.



The screenshot displays the BlueCat IPAM interface for a request titled "Delete Bluecat DNS records :: 1347". The interface is divided into three main sections:

- Left Panel (Request View):** A vertical list of stages in the workflow, each with a checkmark and a play button icon. The stages are: User Inputs, API Generation, Payload Generator, Delete A Record, Review, Bluecat token Renewal, Prevalidation, Implementation, Postvalidation, and **Email** (which is highlighted with a dark background and a play button icon).
- Center Panel:** A large white box containing a diagram of a cloud connected to a server icon. Below the diagram, the text "Email" is displayed in bold, with "Success" in green text underneath it.
- Bottom Panel (Logs - Email):** A dark-themed log viewer showing the following entries:

```
1 07/08/2021 05:34:54 - Initiating Email
2 07/08/2021 05:34:54 - Email triggered: Email
3 07/08/2021 05:34:55 - Send Email Successful: Email
4 07/08/2021 05:34:55 - Email Completed
5
```



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.

Chapter 10: Reports

- F5 Disk Space Monitoring

F5 Disk Space Monitoring

This workflow retrieves multiple devices from the data center and displays the used hard disk space as well as the available hard disk space.

To run this workflow,

1. Go to **Menu > ADC+ > AUTOMATION > Workflow Catalog > View/Run.**

The Workflow Catalog page appears.

2. In the Workflow Catalog page, hover over the **F5 Disk Space Monitoring** workflow within the Reports widget.

The Run and Schedule buttons are shown.



3. Click the Run button.

The Form Input page opens:

The screenshot shows the AppViewX FormBuilder interface for the 'F5 Disk Space Monitoring' workflow. The interface is divided into a sidebar and a main content area. The sidebar on the left contains navigation options: 'ADC+', 'CONFIG MANAGEMENT', 'AUTOMATION', 'ALERTS & LOGS', and 'SETTINGS'. The main content area is titled 'Request > F5 Disk Space Monitoring :: FormBuilder'. It features a 'Request View' button and a 'User Input' button. Below these is a search bar. The main content area is divided into sections: 'About this workflow' (with an info box stating 'This workflow fetches multiple devices from data center and displays the Hard Disk Used and Hard Disk Space available'), 'F5 Device Details' (with dropdown menus for 'Datacenter' and 'F5 Device(s) List'), and 'Hard Disk Threshold Limits'. At the bottom, there are 'Submit', 'Save Draft', and 'Cancel' buttons.

4. In the **F5 Device Details** section, select a datacenter, and then an F5 device from the list.
5. In the **Hard Disk Threshold Limits** section, select or enter the following details:

Field	Description
Hard Disk Used Space	
*Warning Threshold (%)	The warning threshold is configured to trigger when the used disk space exceeds a specified percentage (above x %).
*Critical Threshold (%)	The critical threshold is defined to activate when the used disk space exceeds a specified percentage (above x %).
Hard Disk Free Space	
*Warning Threshold (%)	The warning threshold is configured to trigger when the free disk space exceeds a specified percentage (above x %).
*Critical Threshold (%)	The critical threshold is defined to activate when the free disk space exceeds a specified percentage (above x %).

6. In the **Email** section, enter the email addresses, separated by commas.

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 > All**.
- If you want to cancel this form, click the **Cancel** button.

8. The workflow runs automatically and an email will be triggered if it has been configured.

Chapter 11: 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](#)

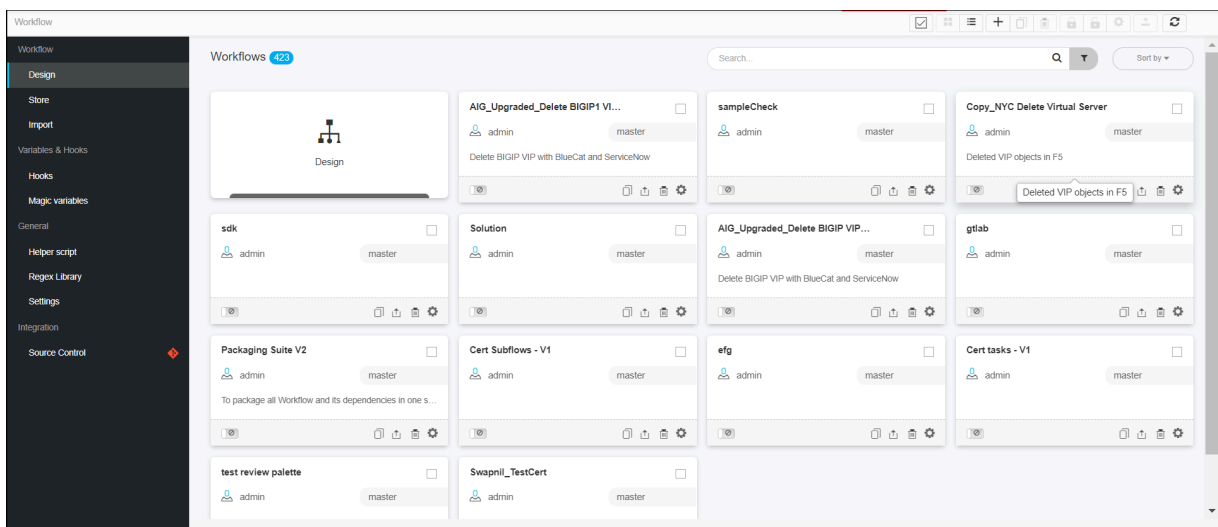
Sample Workflow Creation with A, CNAME, and PTR Records in BlueCat

This section covers the sample procedures for creating a sample workflow with A, CNAME, and PTR Records in BlueCat.

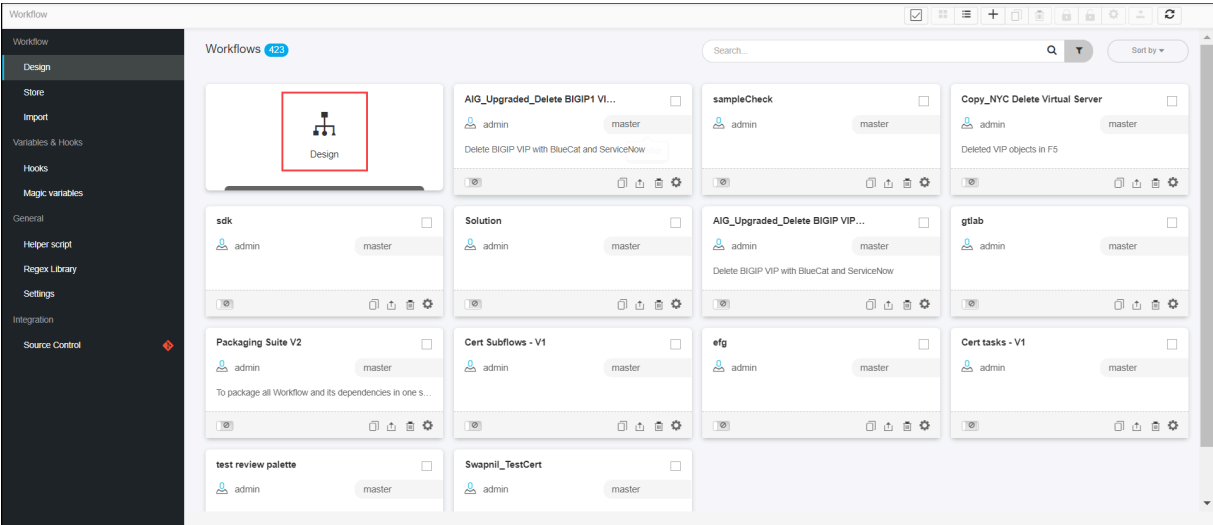
To create a sample workflow with A, CNAME, and PTR records,

1. Go to  **Menu > Studio > Workflow.**

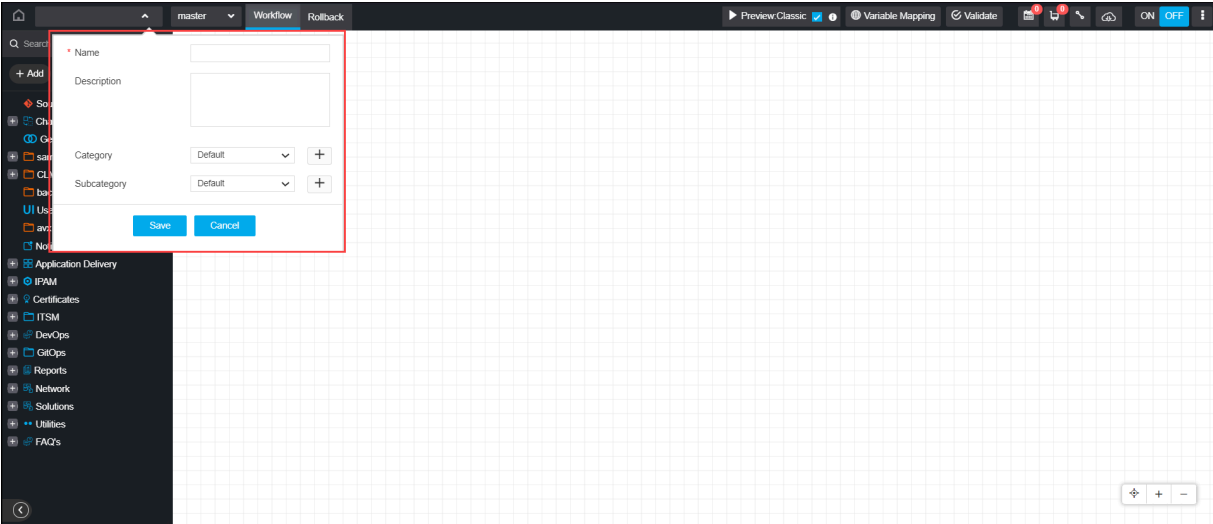
The Workflows page appears:



2. Click **Design** to create a new workflow.



3. Enter or select the field information.

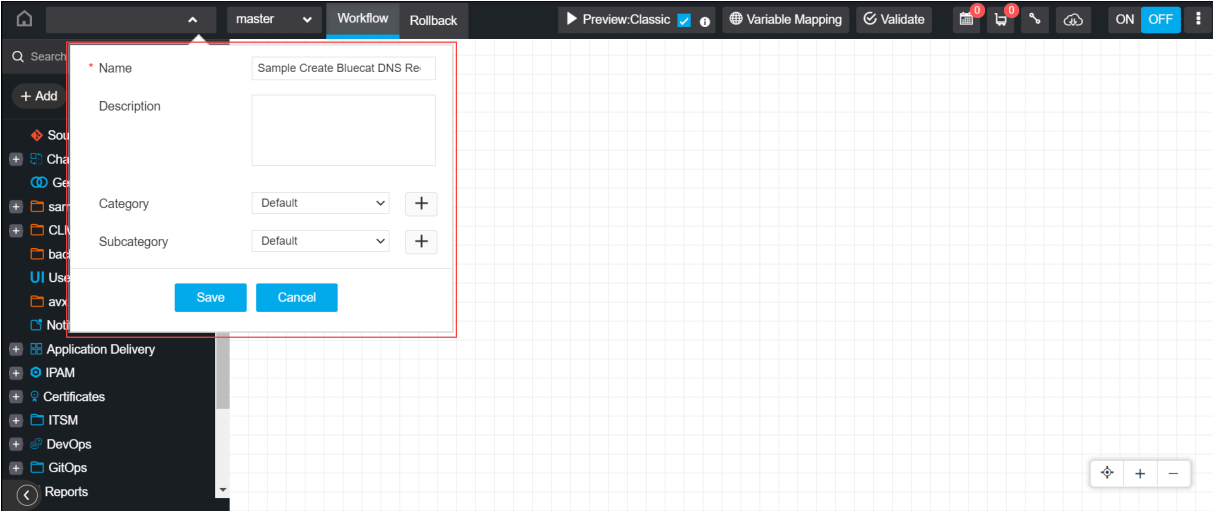


4. The following table provides the field description for designing a workflow:

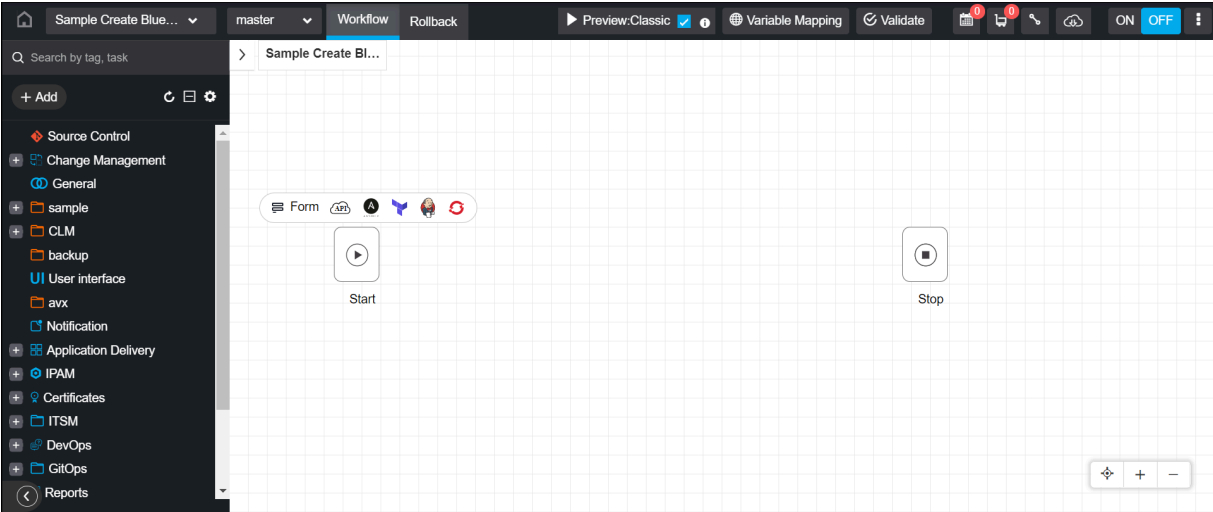
Field	Description
*Name	Name of the workflow.
Description	Description for the workflow.
Category	Select the category from the drop-down option.
Subcategory	Select sub-category for the workflows from the drop-down option. The possible options are:

Field	Description
	<ul style="list-style-type: none">• Modify• Create• Default• Delete

5. Click the **Save** button.

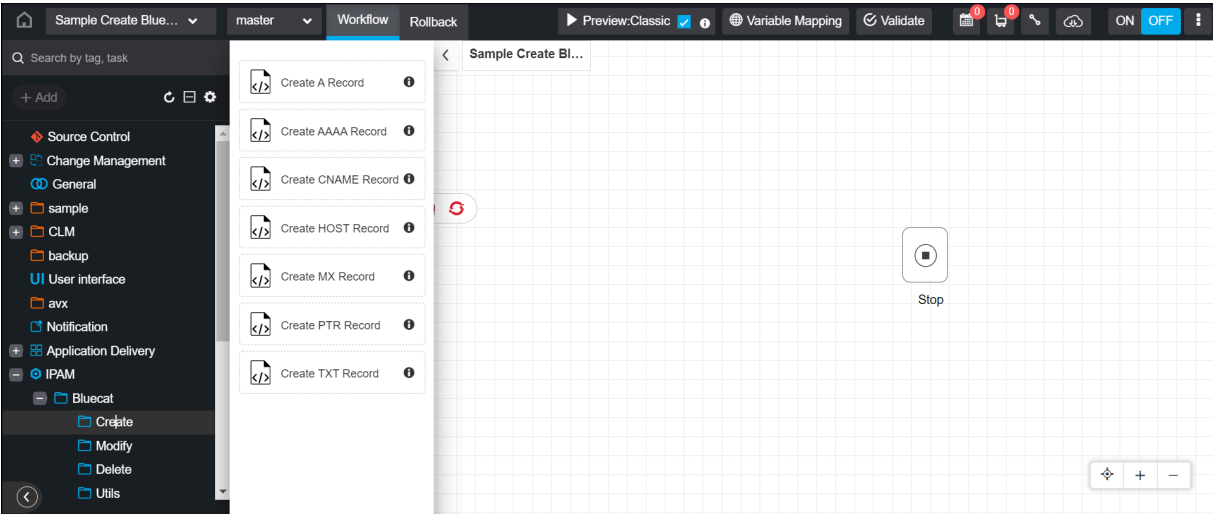


The workflow is created:

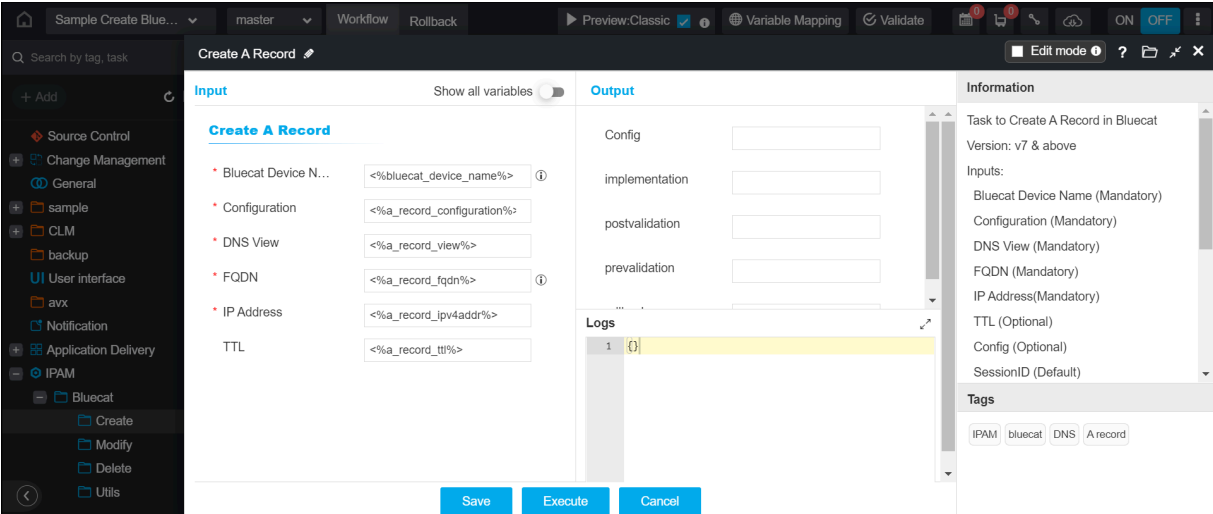


6. Go to **IPAM > Bluecat > Create** folder.

7. Place **Create A Record** task.

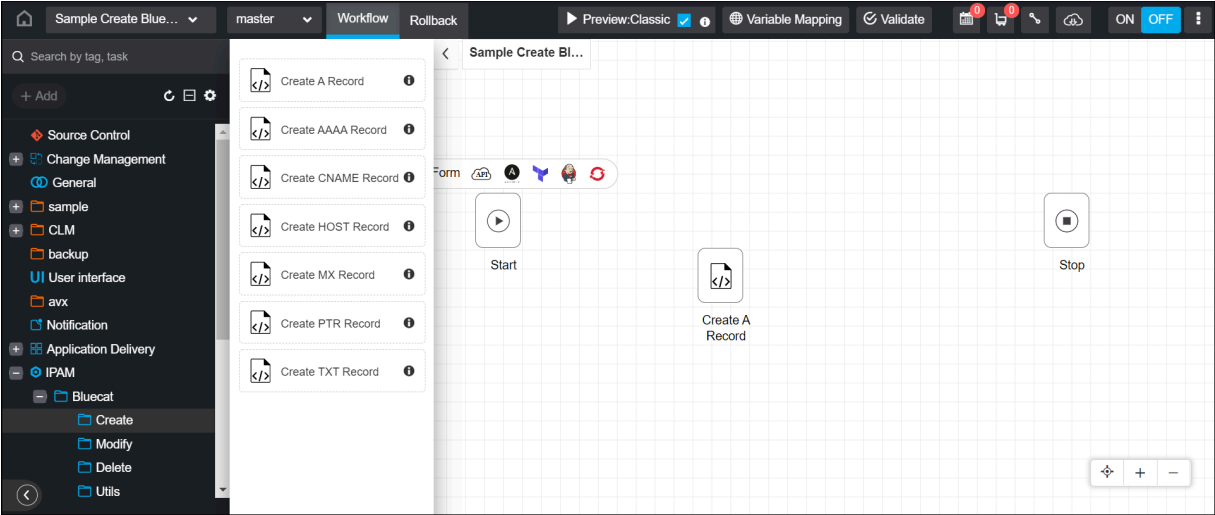


The Input, Output, and Information data for **Create A Record** task are displayed:

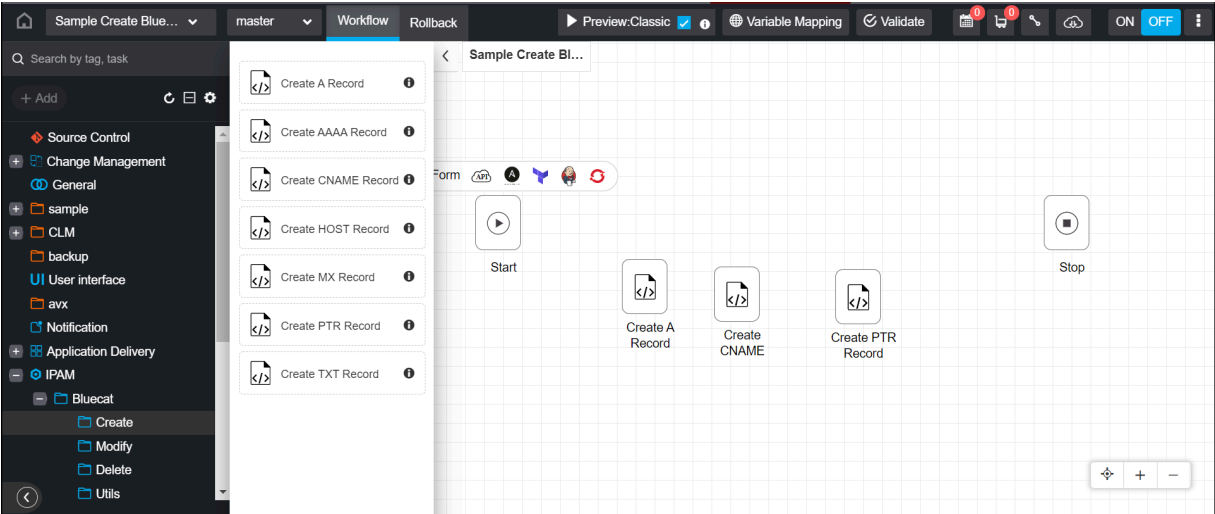


8. Click the **Save** button.

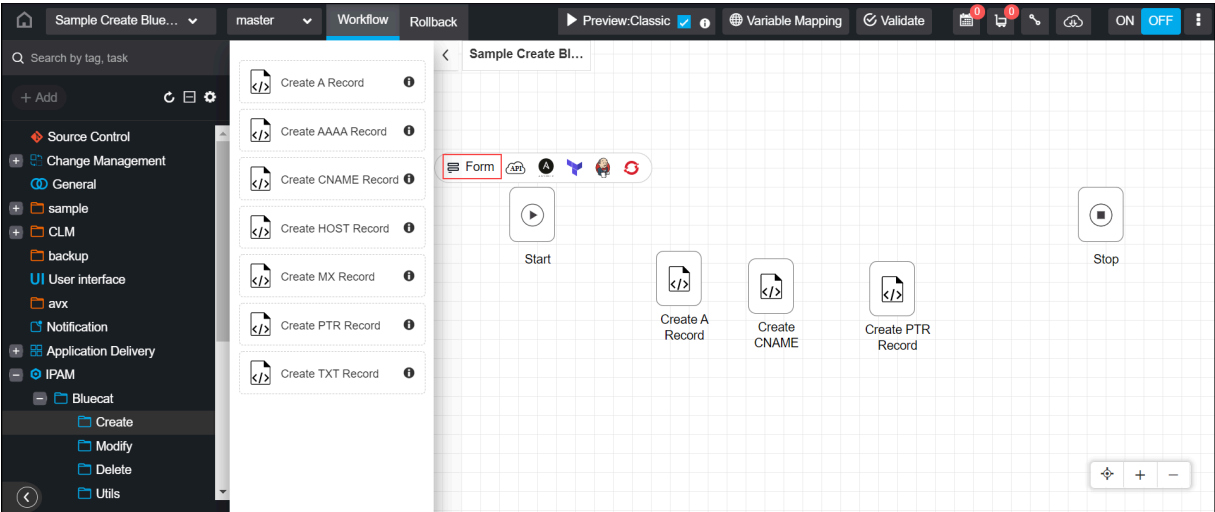
The **Create A Record** task has been added to the workflow:



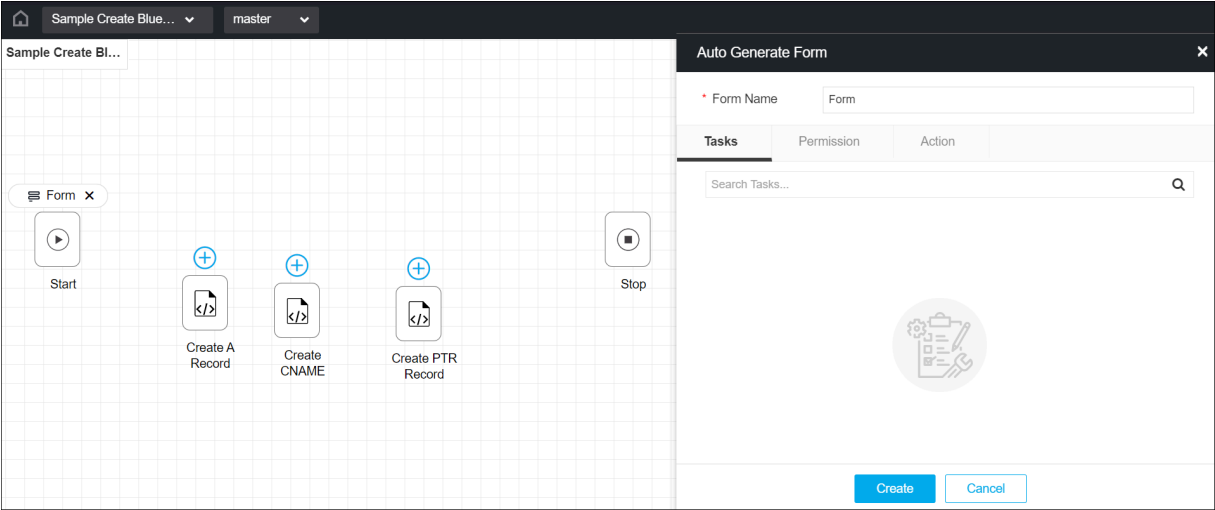
9. Similarly, place **Create CNAME Record** task and **Create PTR Record** task from the folder **IPAM > Bluecat > Create**.



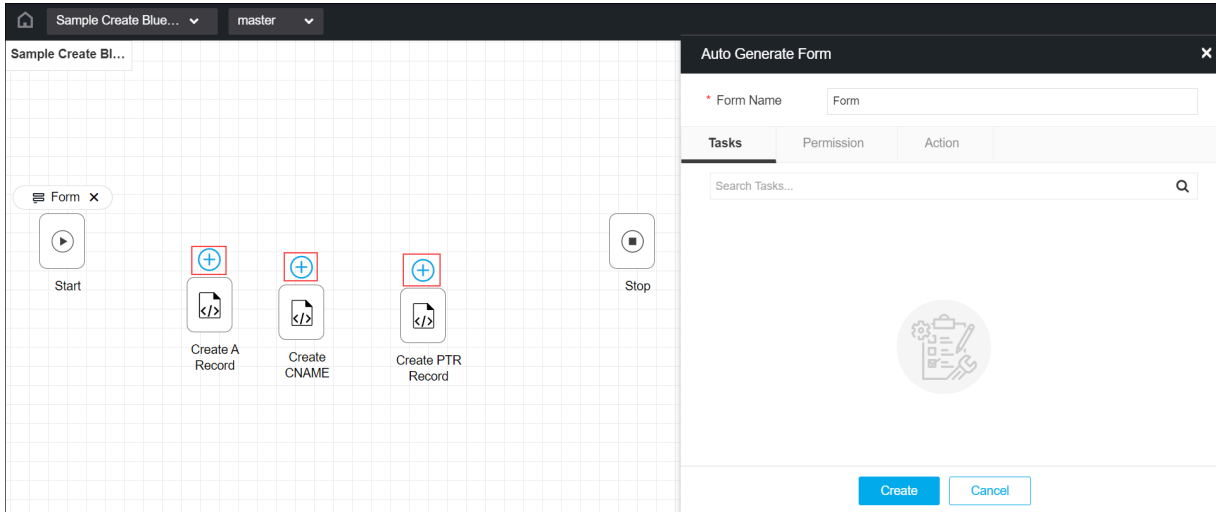
10. Click the **Form** in the Design page to auto-generate the form for the selected tasks.



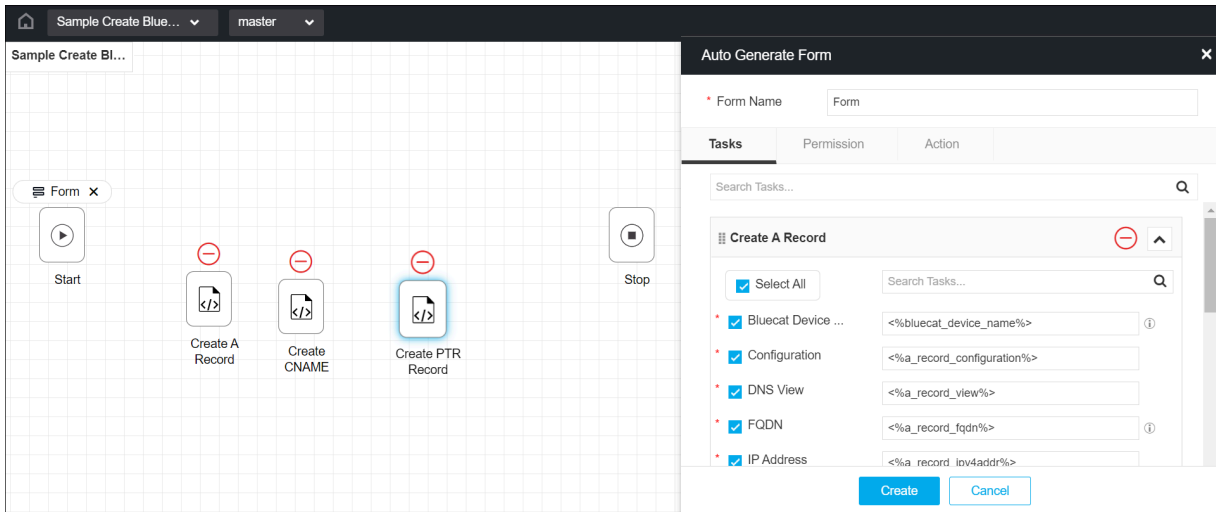
The Auto Generated Form appears:



- 11. Click the add () button of the **Create A Record** task, **Create CNAME Record** task, and **Create PTR Record** task.



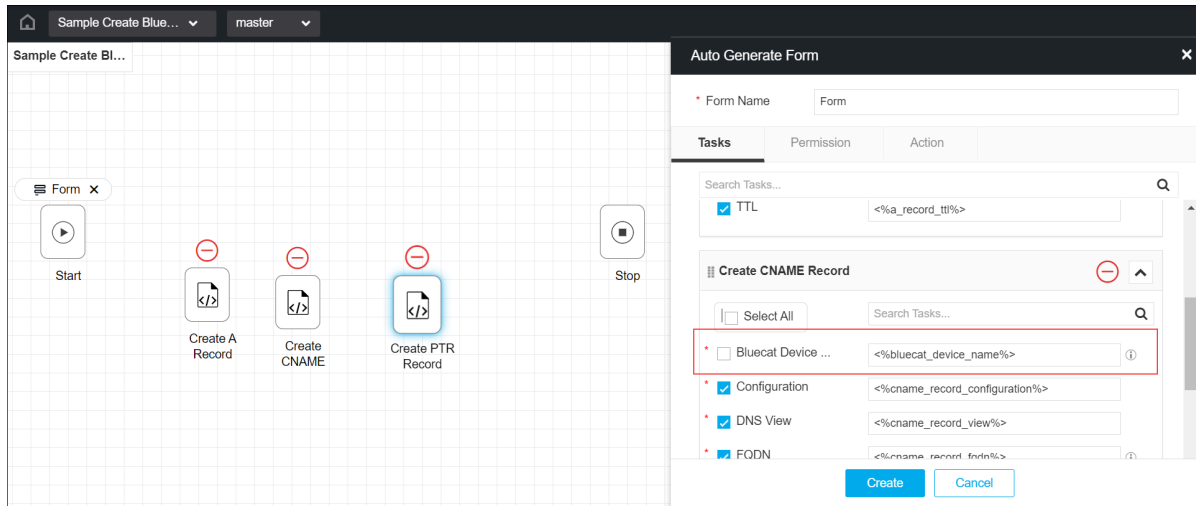
The tasks are added to the Auto Generate Form:



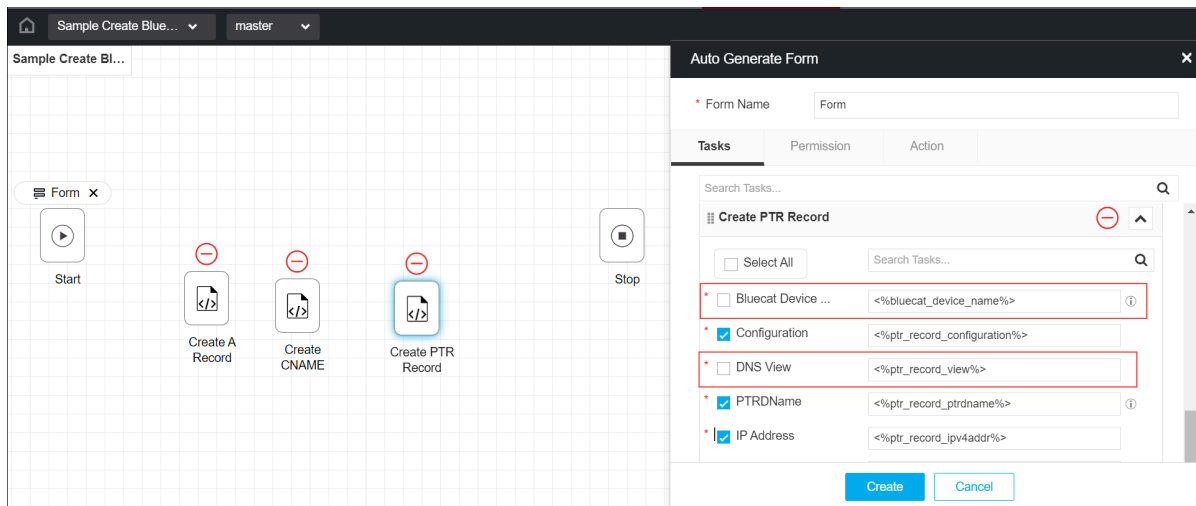
Note: The sequence of the tasks is maintained based on the add button clicked sequence on the tasks. If you want to alter the sequence after adding the tasks to the Auto Generate Form, delete the task(s) from the Auto Generate Form and add again.

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.

- Unselect the Bluecat Device Name field from the Create CNAME Record task.

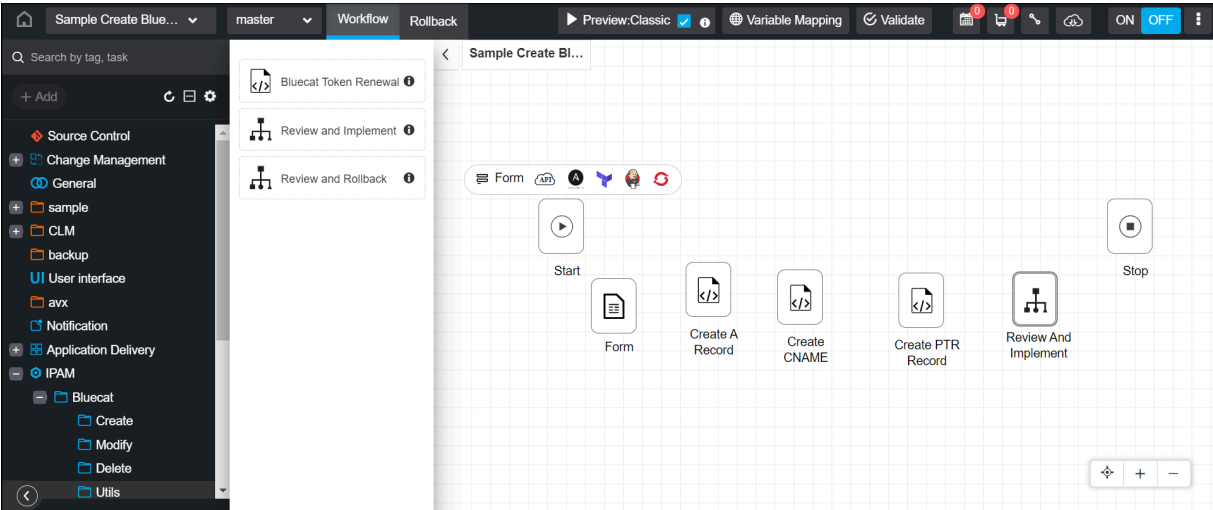


- Unselect the **Bluecat Device Name** field and **DNS View** from the **Create PTR Record** task.

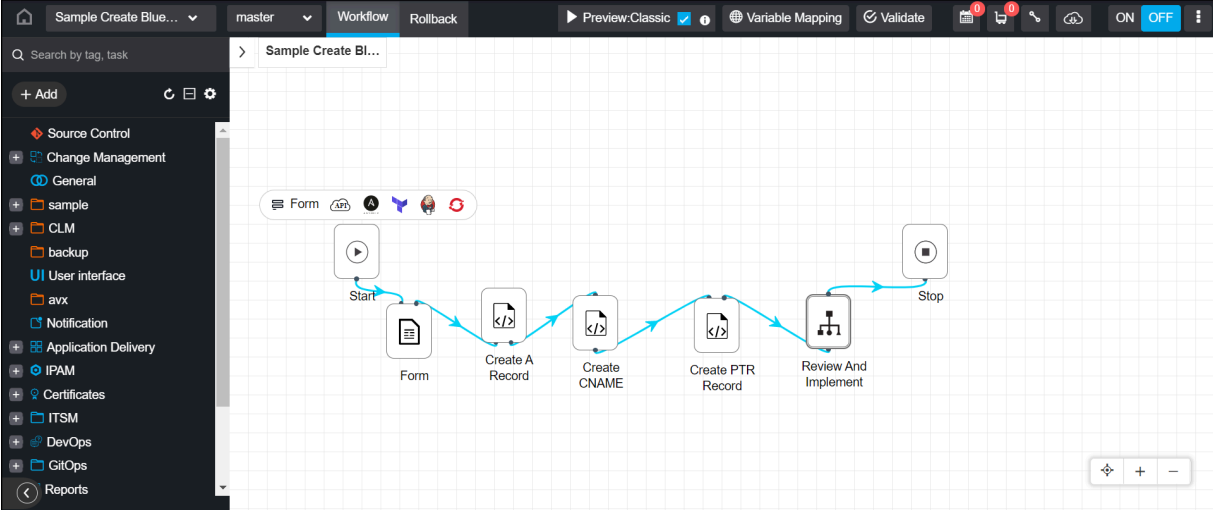


14. Click the **Create** button.

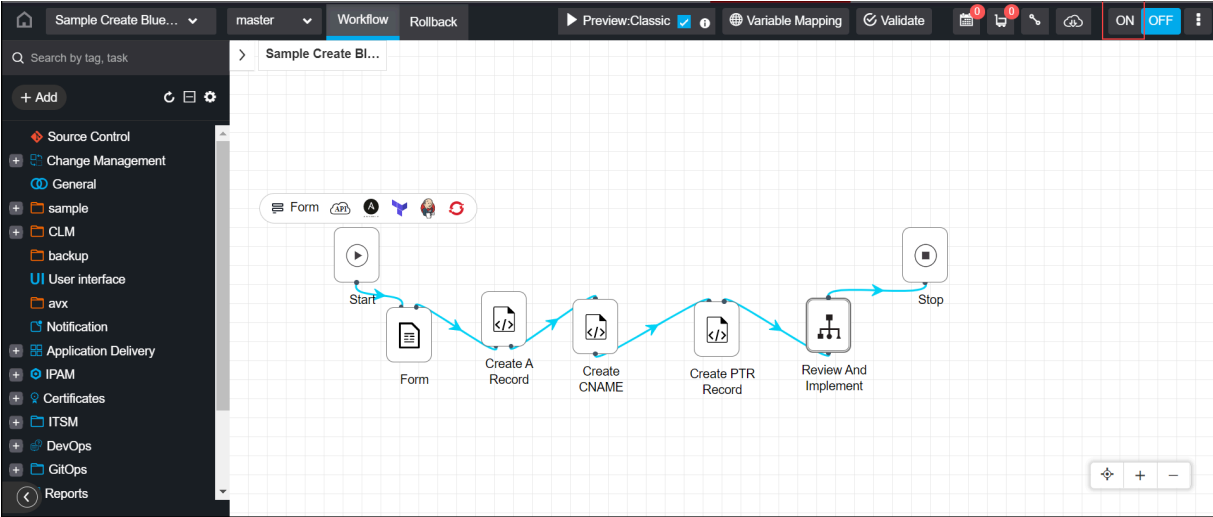
15. Go to **IPAM > Bluecat > Utils** folder, and then place **Review and Implement** subflow from the folder.



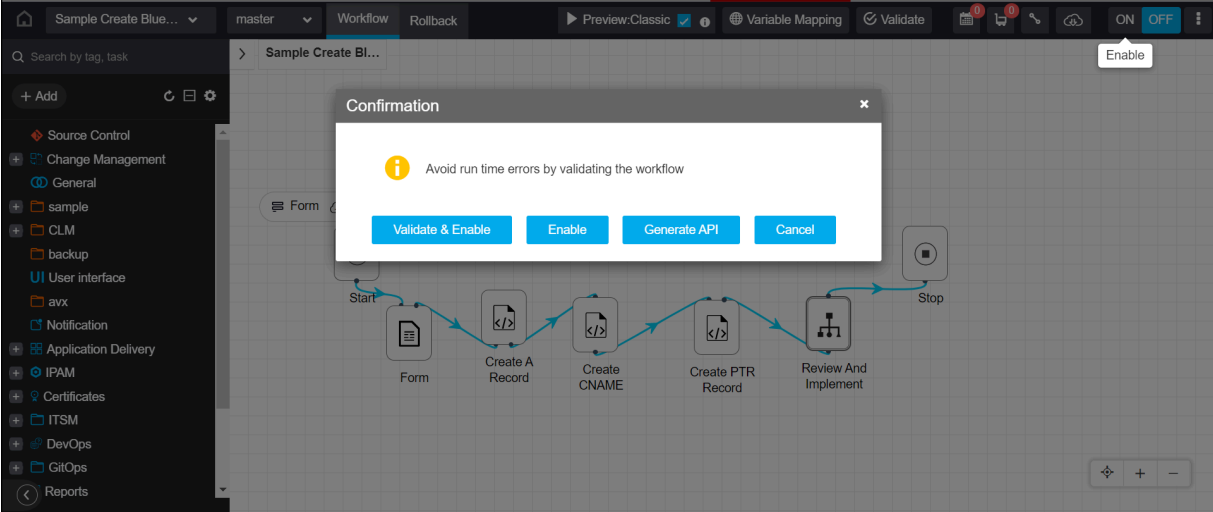
16. Connect all the tasks.



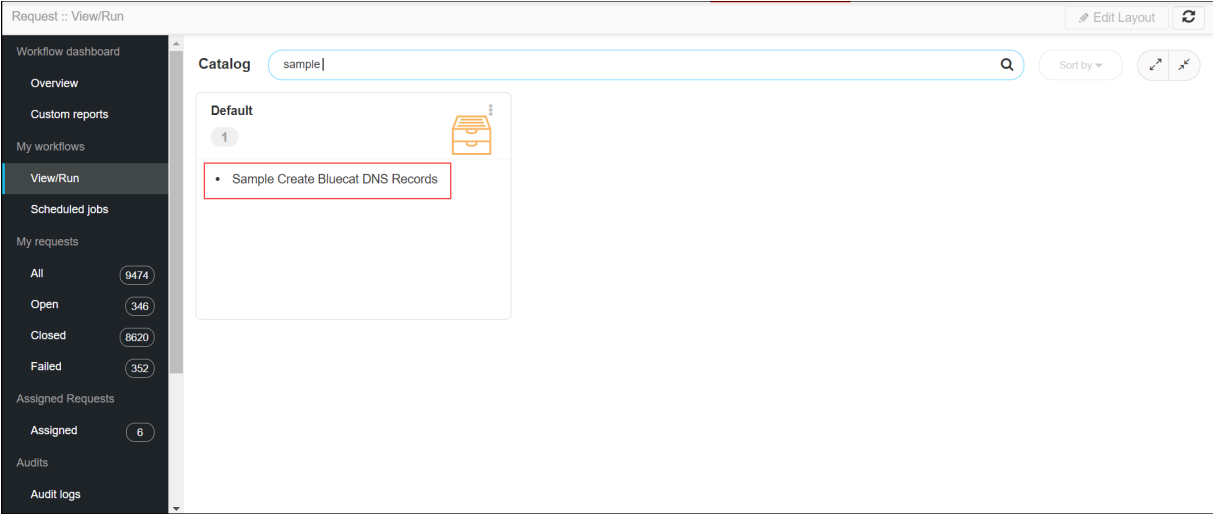
17. Enable the workflow by clicking the ON toggle button.



18. Click the **Validate & Enable** button.



The workflow is added to the Workflow Catalog page.




19. Run and verify the workflow.

- [Customize the Variables for a task](#)

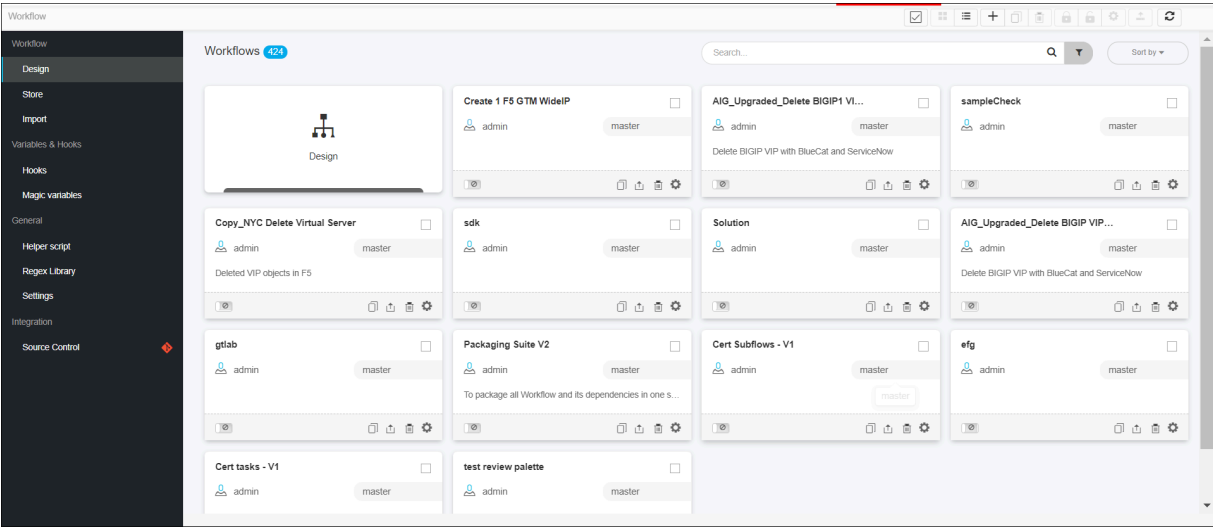
Customize the Variables for a task

The variables can be customized for a task after creating a workflow also.

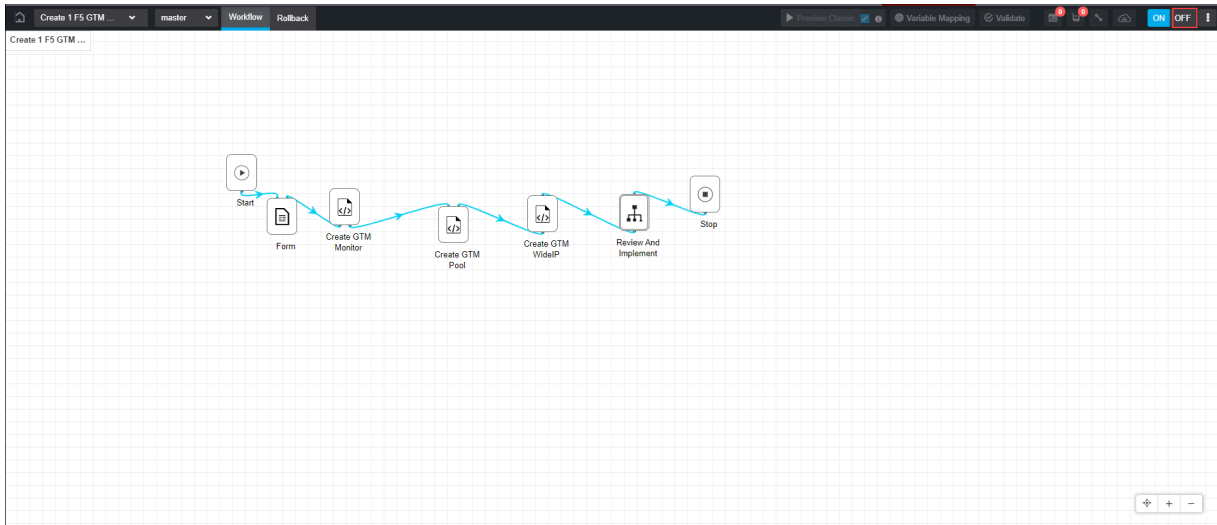
To customize the variables for a task,

1. Go to  **Menu > Studio > Workflow.**

The Workflows page appears:



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:

This screenshot shows the workflow editor with the 'Create GTM Monitor HTTP' task selected. The 'Properties' panel is open, displaying the following information:

- General**
 - Name: Create GTM Monitor HTTP
 - Task ID: create_gtm_monitor_http_1
 - Hide task:
 - Description: Task to Create GTM Monitor HTTP on F5 BIGIP
- Script**

```

1 # Create GTM Monitor HTTP Object in F5 Device
2 author "Zagonsek"
3 _version_ "20.3.0"
4
5 from appview_sdk.f5.bigip import Management
6
7 commands = <commands>
8 payload = {
9     'defaults-from': '<sh>shipp_gtm_monitor_defaults_defaults',
10    'description': '<sh>shipp_gtm_monitor_description',
11    'ignore-down-response': '<sh>shipp_gtm_monitor_ignore-down-responses',
12    'interval': '<sh>shipp_gtm_monitor_interval',
13    'name': '<sh>shipp_gtm_monitor_name',
14    'password': '<sh>shipp_gtm_monitor_password',
15    'probe-timeout': '<sh>shipp_gtm_monitor_probe-timeouts',
16    'recv': '<sh>shipp_gtm_monitor_recv',
17    'reverse': '<sh>shipp_gtm_monitor_reverse',
18    'send': '<sh>shipp_gtm_monitor_send',
19    'timeout': '<sh>shipp_gtm_monitor_timeout',
20    'transparent': '<sh>shipp_gtm_monitor-transparent',

```

6. Click the **Variables** tab.

Field name	Variable	Value	Default Value	Description	Field Type	Parent	Type
F5 Device Name	f5_device_name	<%f5_device_name%>	(~get_managed_f5_gtm...	If F5 Device is empty, pl...	Dropdown	None	String
Monitor HTTP Name	http_gtm_monitor_name	<%http_gtm_monitor_n...	<%http_gtm_monitor_n...		Text box	None	String
Description	http_gtm_monitor_description	<%http_gtm_monitor_d...	<%http_gtm_monitor_d...		Text box	None	String
Interval	http_gtm_monitor_interval	<%http_gtm_monitor_in...	30		Text box	None	String
Timeout	http_gtm_monitor_timeout	<%http_gtm_monitor_ti...	120		Text box	None	String
Probe Timeout	http_gtm_monitor_probe-timeout	<%http_gtm_monitor_pr...	5		Text box	None	String
Ignore Down Response	http_gtm_monitor_ignore-down...	<%http_gtm_monitor_ig...	,disabled,enabled		Dropdown	None	String
Send String	http_gtm_monitor_send	<%http_gtm_monitor_s...	GET /		Text box	None	String
Receive String	http_gtm_monitor_recv	<%http_gtm_monitor_re...	<%http_gtm_monitor_re...		Text box	None	String
User Name	http_gtm_monitor_username	<%http_gtm_monitor_u...	<%http_gtm_monitor_u...		Text box	None	String
Password	http_gtm_monitor_password	<%http_gtm_monitor_p...	<%http_gtm_monitor_p...		Password	None	String
Reverse	http_gtm_monitor_reverse	<%http_gtm_monitor_re...	disabled,enabled		Dropdown	None	String
Transparent	http_gtm_monitor_transparent	<%http_gtm_monitor_tr...	disabled,enabled		Dropdown	None	String
Alias Address	http_gtm_monitor_in	<%http_gtm_monitor_in	*		Text box	None	String

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:

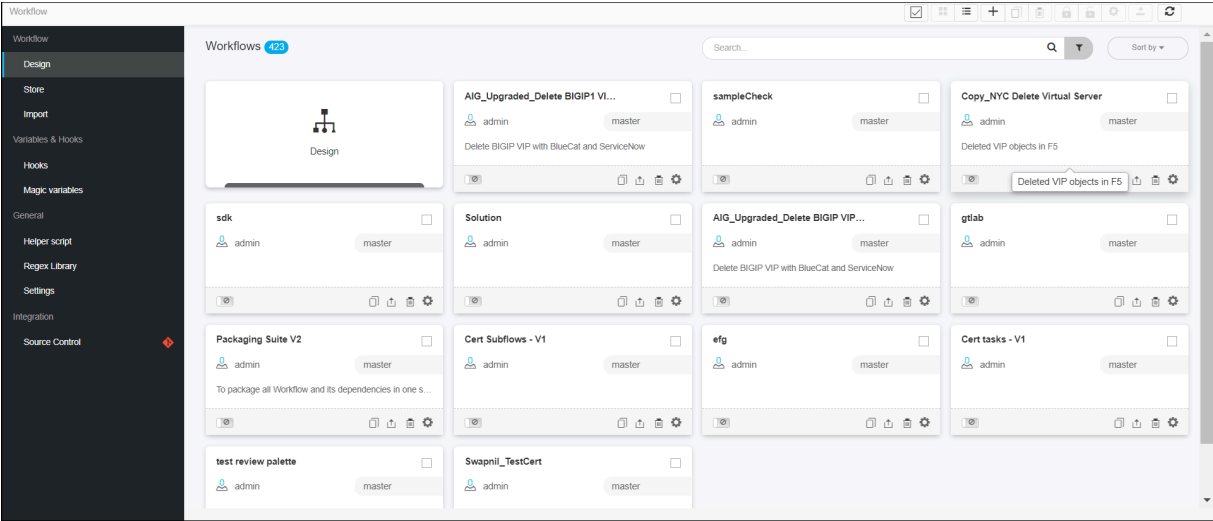
- Sample workflow creation with A, CNAME, and PTR Records in Infoblox
- Customize the variables for a task
- [Sample Workflow Creation with A, CNAME, and PTR Records in Infoblox](#)
- [Customize the Variables for a Task](#)

Sample Workflow Creation with A, CNAME, and PTR Records in Infoblox

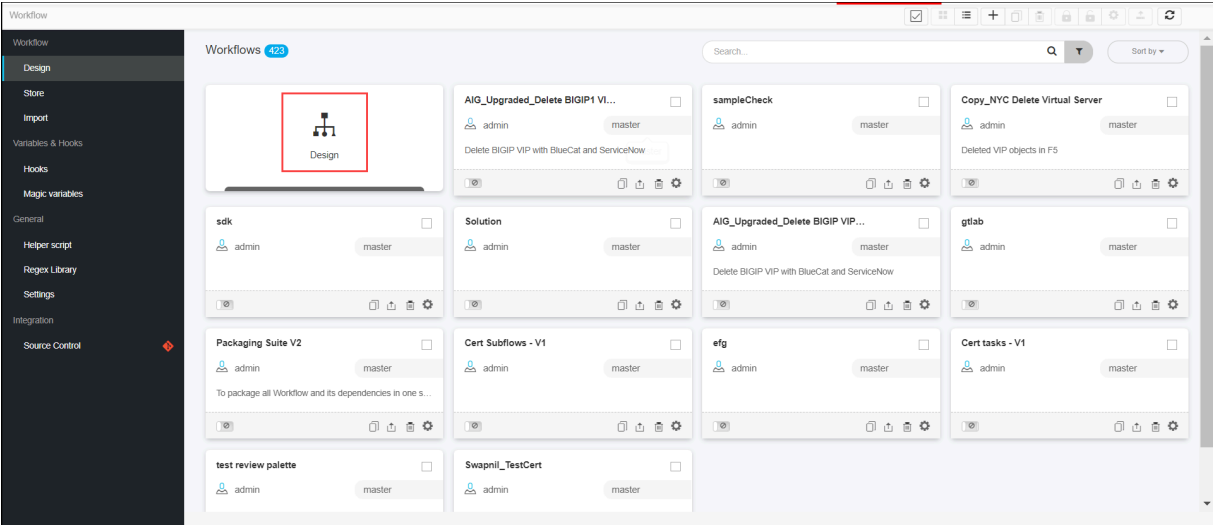
To create a sample workflow with A, CNAME, and PTR Records,

- 1. Go to  **Menu > Studio > Workflow.**

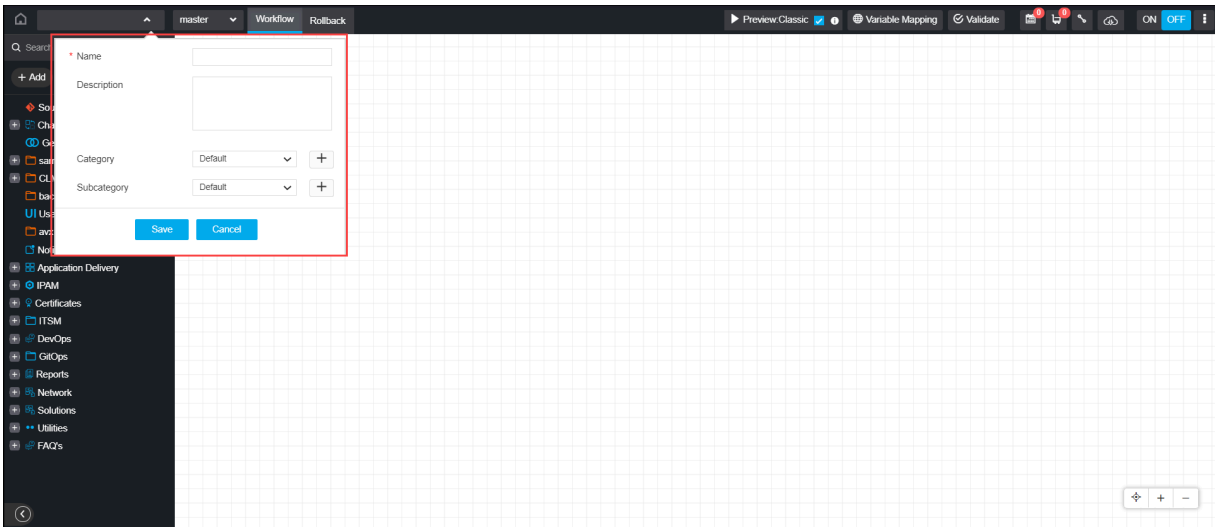
The Workflows page appears:



- 2. Click Design to create a new workflow.



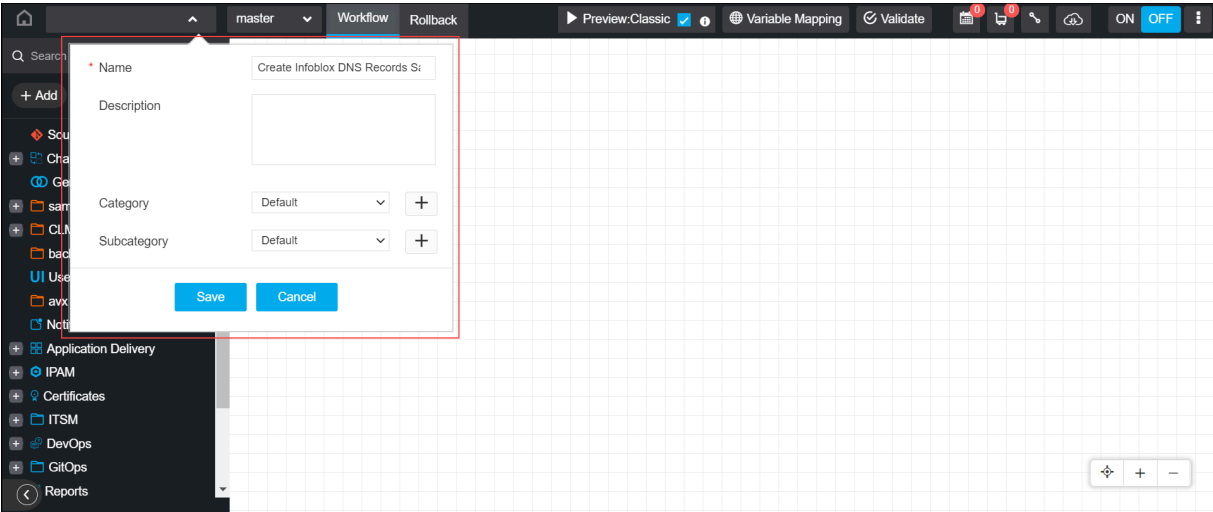
- 3. Enter or select the field information.



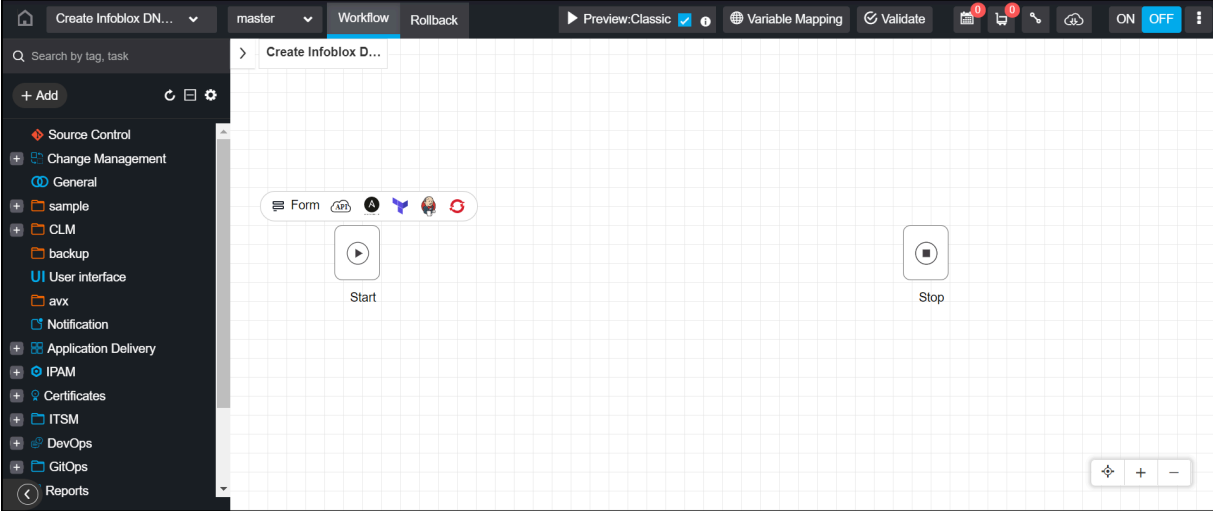
4. The following table provides the field description for designing a workflow:

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: <ul style="list-style-type: none"> • Modify • Create • Default • Delete

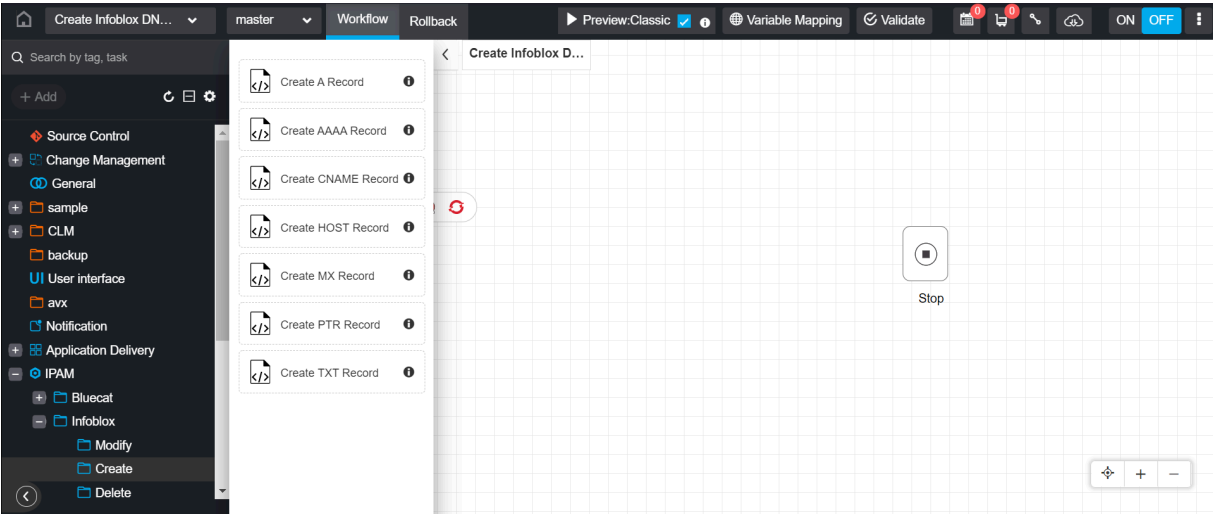
5. Click the **Save** button.



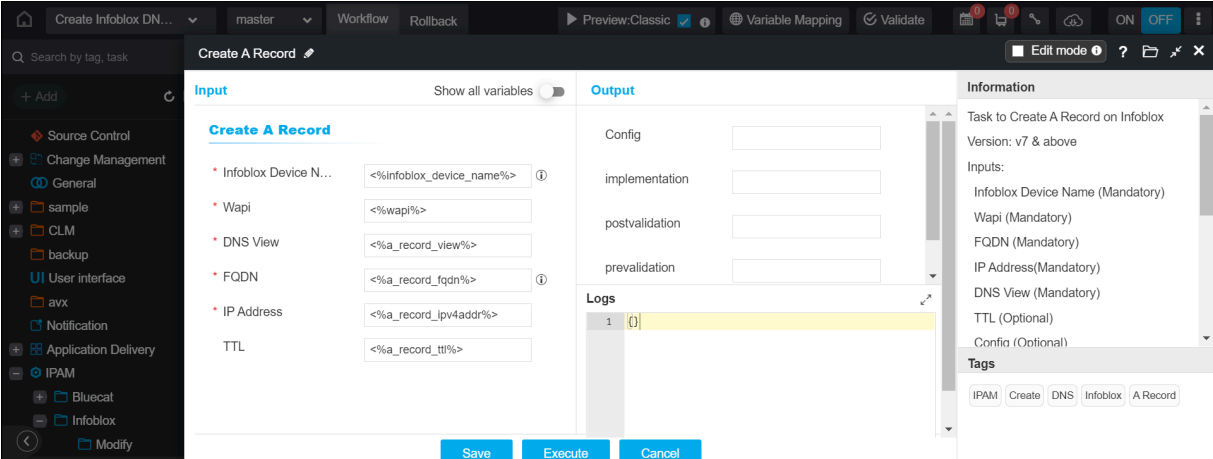
The workflow is created:



- 6. Go to **IPAM > Infoblox > Create** folder.
- 7. Place **Create A Record** task.

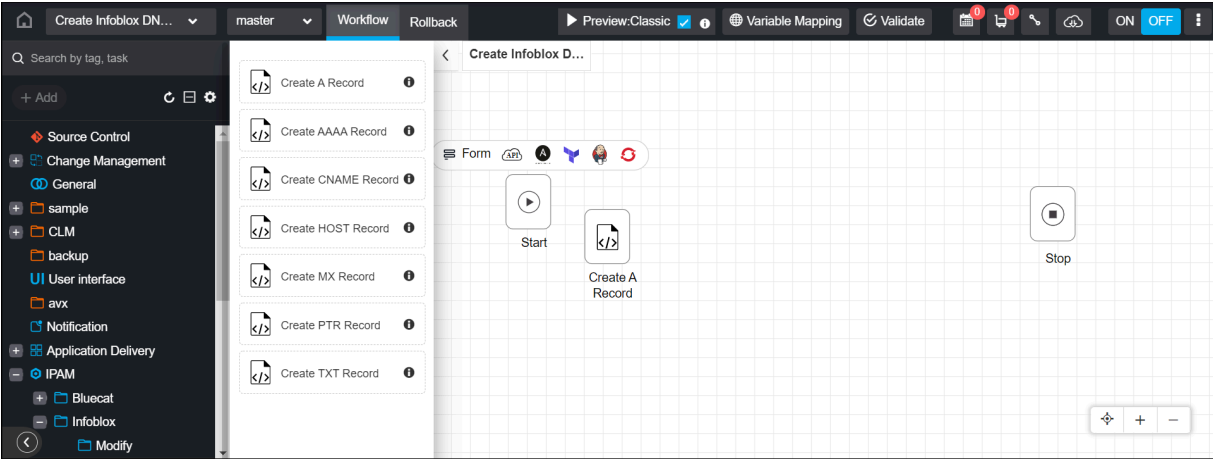


The Input, Output, and Information data for **Create A Record** task are displayed:

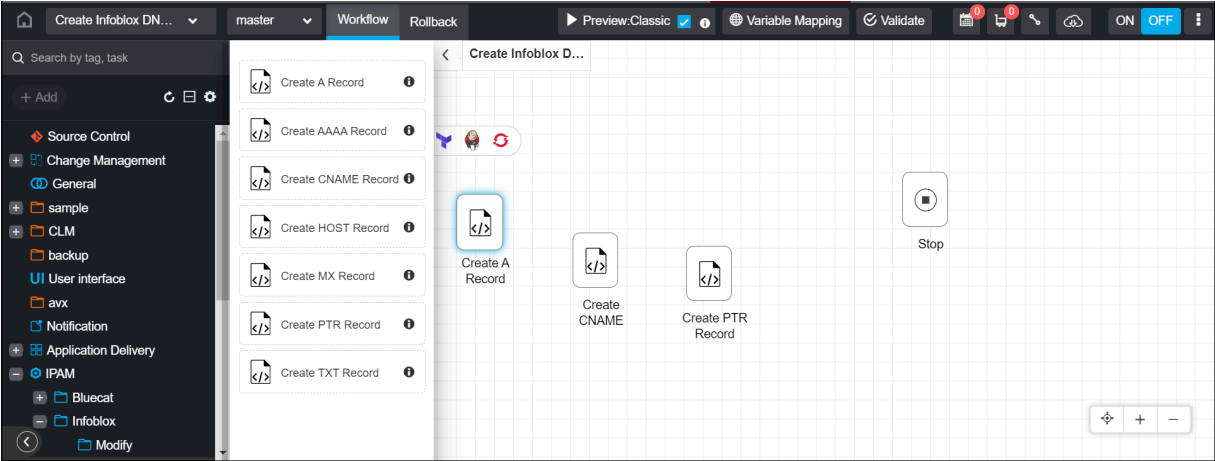


8. Click the **Save** button.

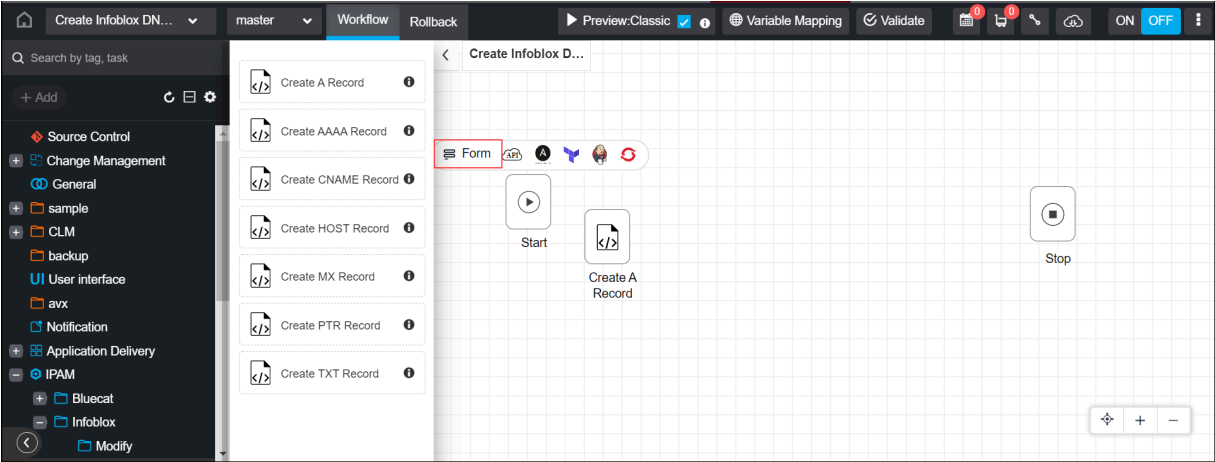
The **Create A Record** task has been added to the workflow:



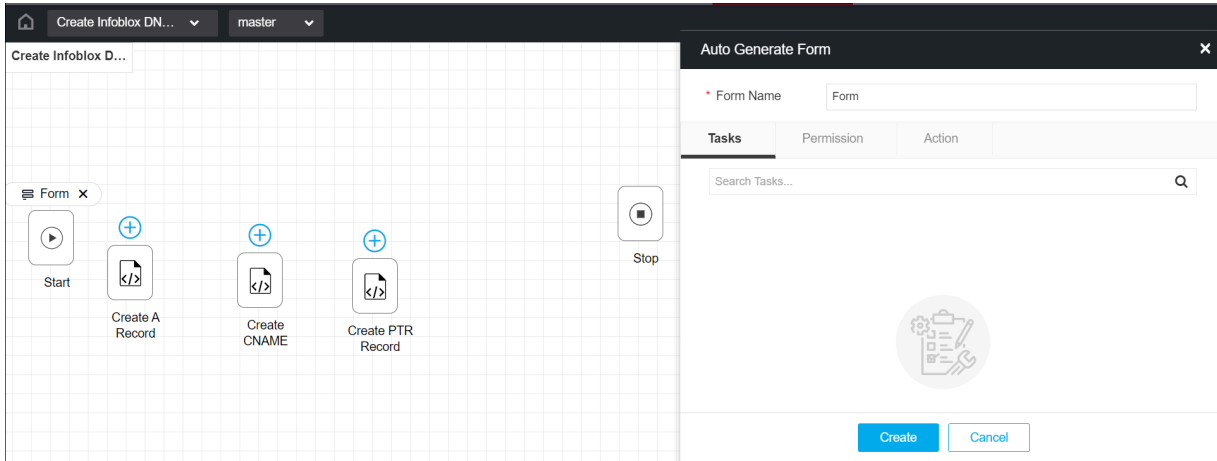
9. Similarly, place **Create CNAME Record** task and **Create PTR Record** task from the folder **IPAM > Infoblox > Create**.



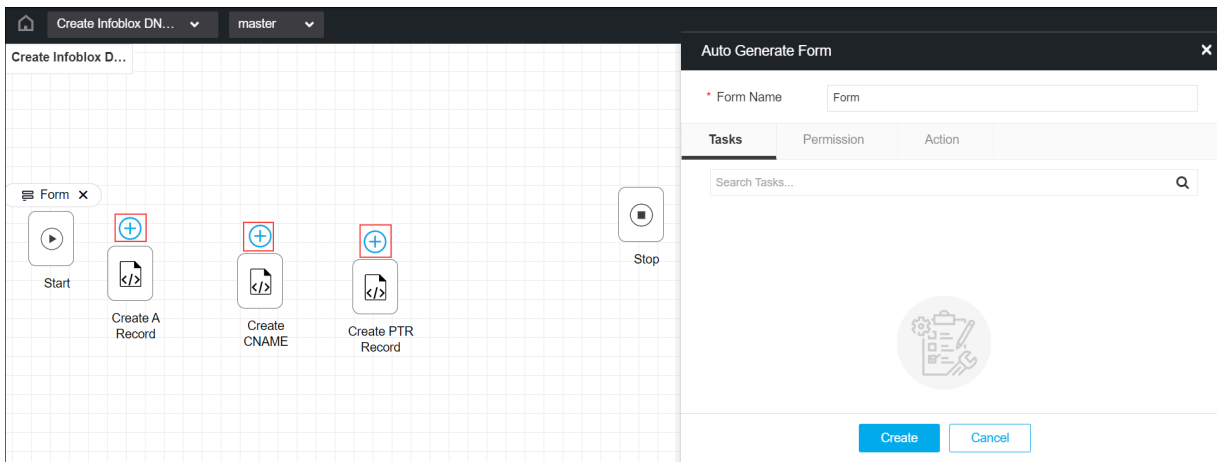
10. Click the **Form** in the Design page to auto-generate the form for the selected tasks.



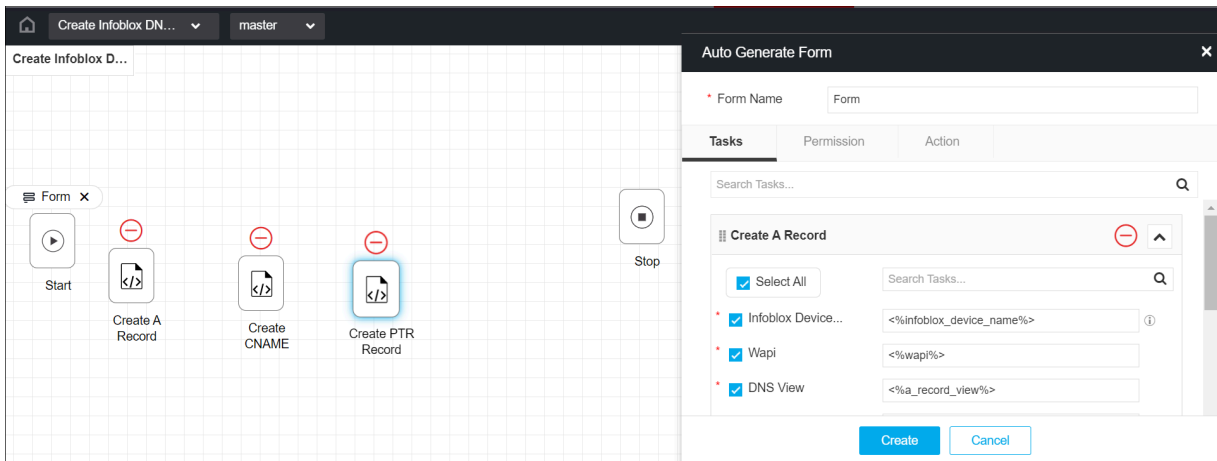
The Auto Generated Form appears:



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:



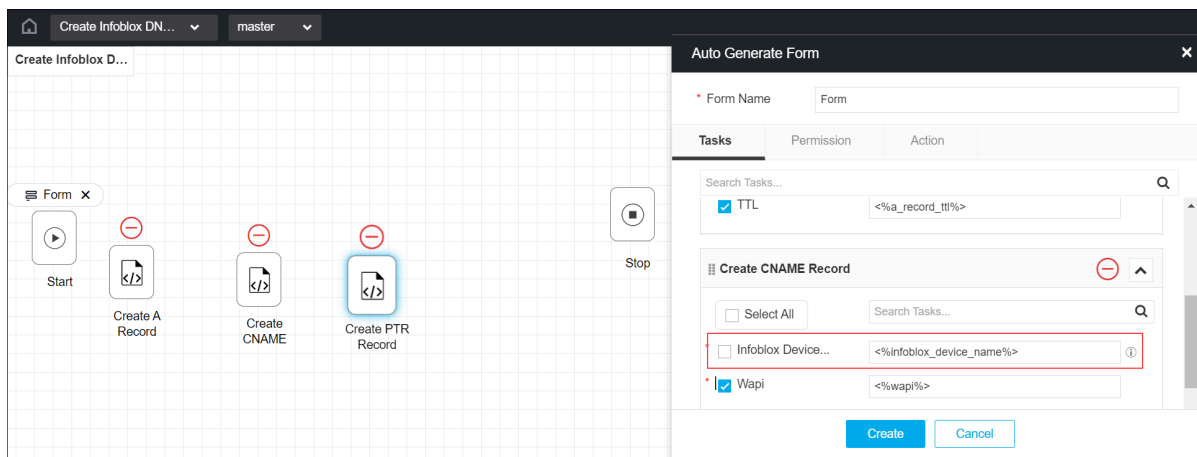


Note: The sequence of the tasks is maintained based on the add button clicked sequence on the tasks. If you want to alter the sequence after adding the tasks to the Auto Generate Form, delete the task(s) from the Auto Generate Form and add them again.

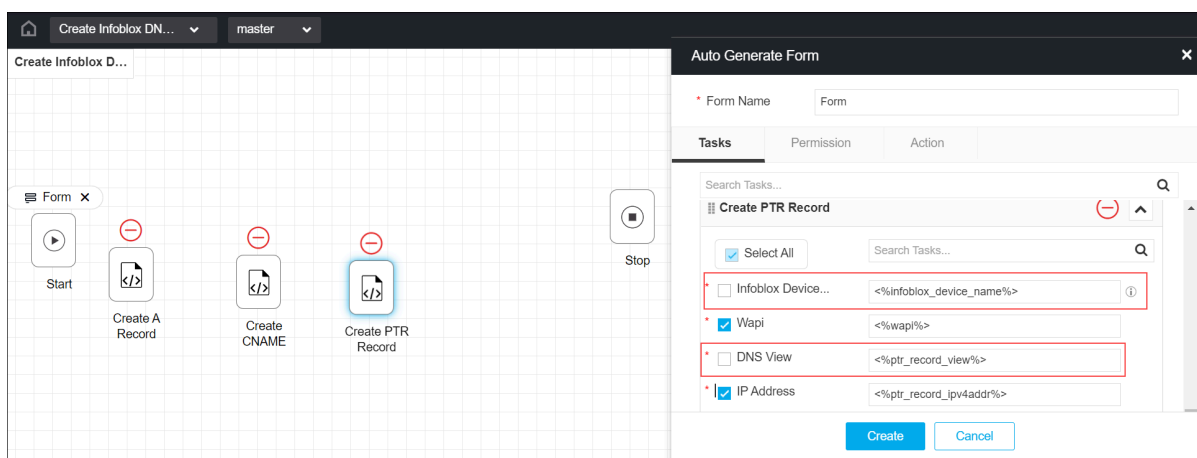
12. Verify all the fields and select/clear the checkbox of the fields to add them to the form.

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.

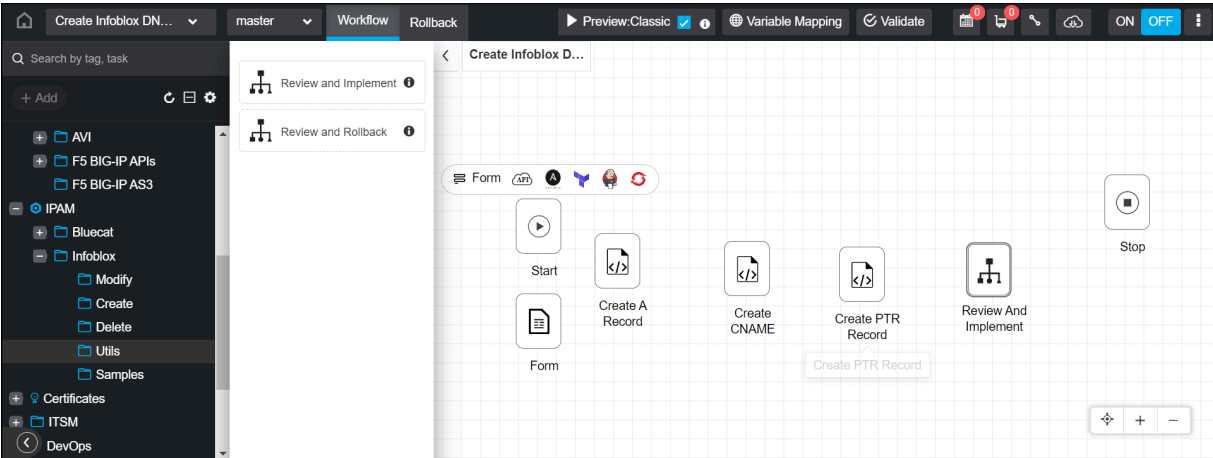


- Clear the checkbox for the **Infoblox Device Name** field and **DNS View** from the **Create PTR Record** task.

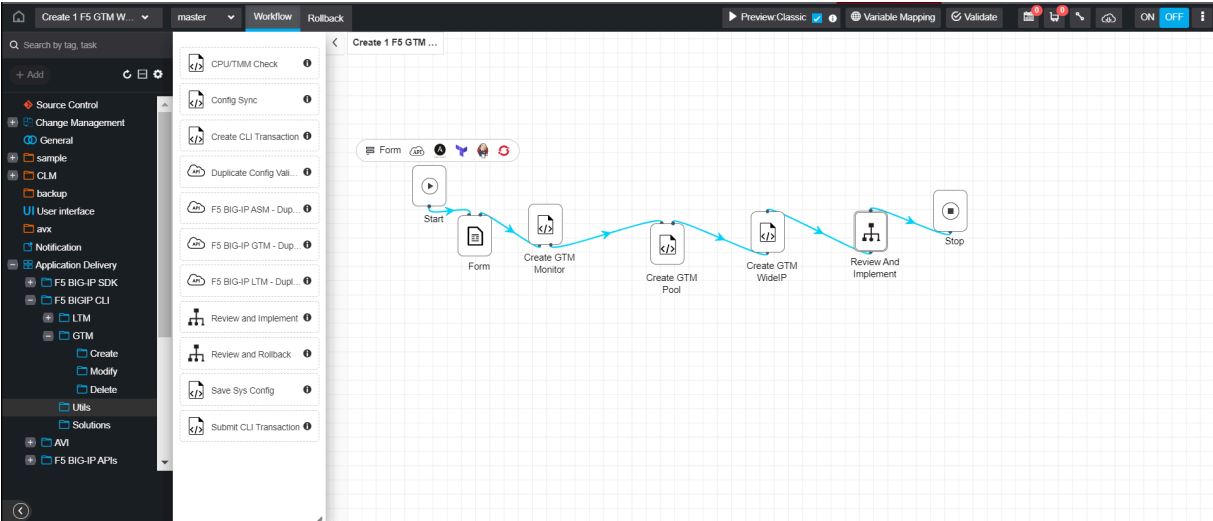


13. Click the **Create** button.

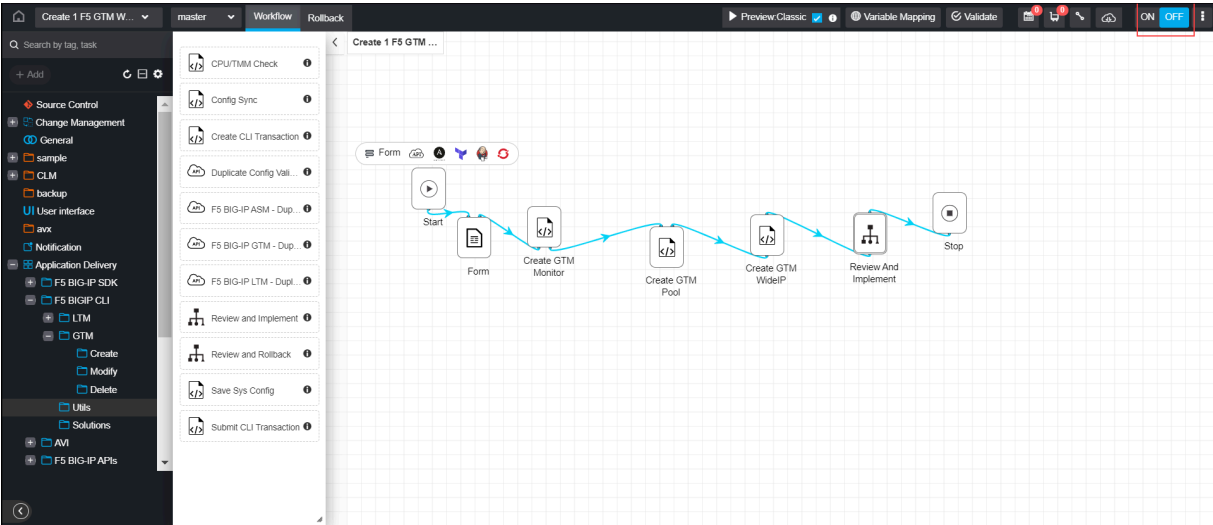
14. Go to **IPAM > Infoblox > Utils** folder, and then place **Review and Implement** subflow from the folder.



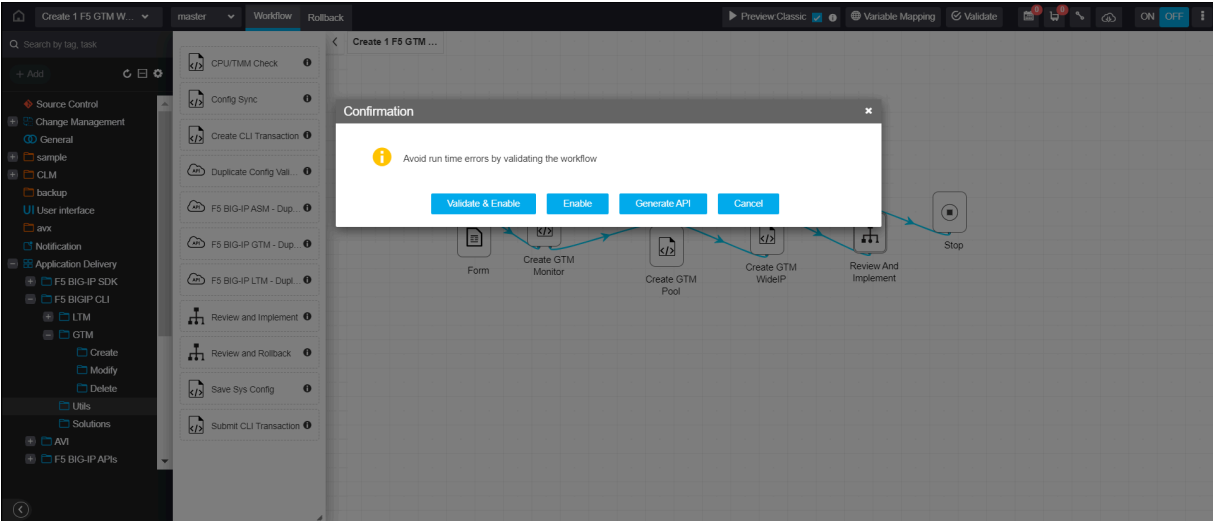
15. Connect all the tasks.



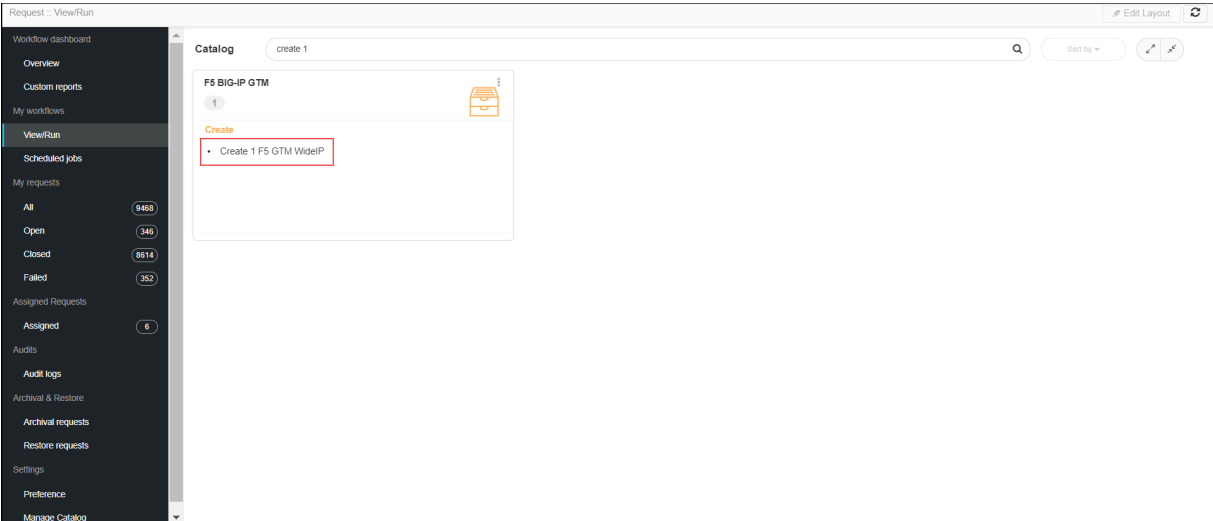
16. Enable the workflow by clicking the **ON** toggle button.



17. Click the **Validate & Enable** button.



The workflow is added to the Workflow Catalog page.




18. Run and verify the workflow.

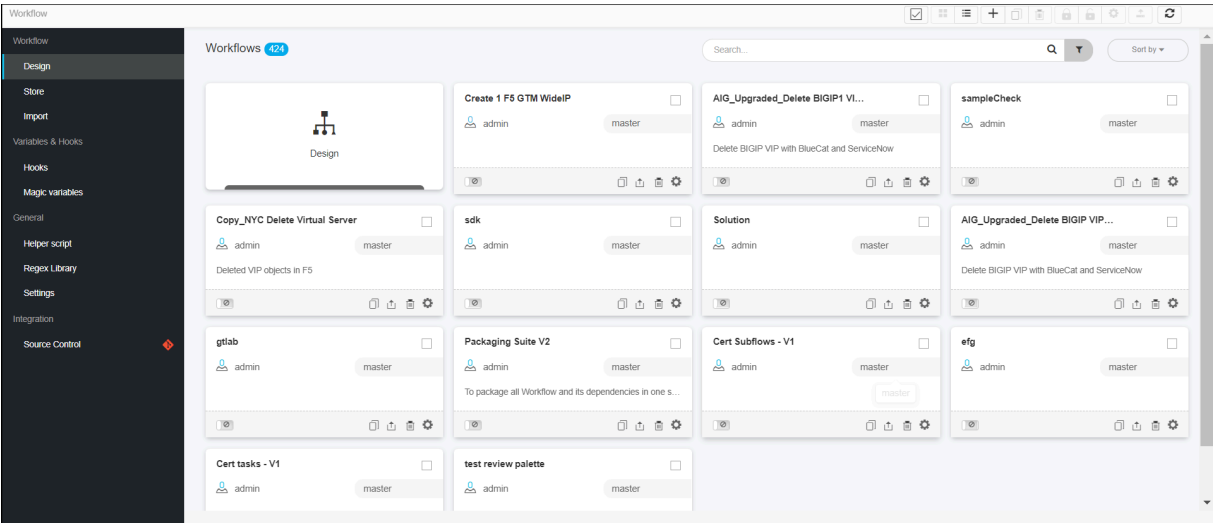
Customize the Variables for a Task

The variables can be customized for a task after creating workflow also.

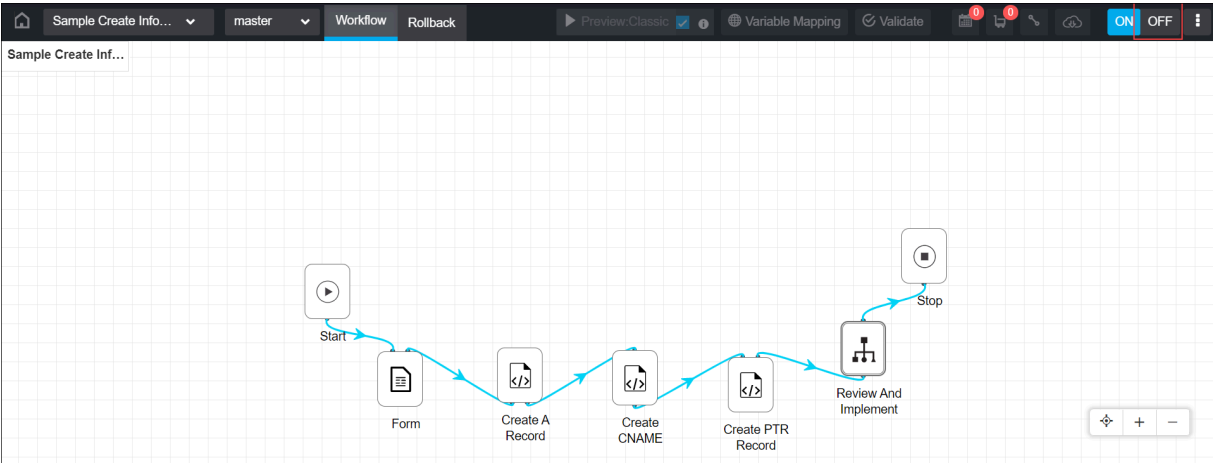
To customize the variables for a task,

- 1. Go to  **Menu > Studio > Workflow.**

The Workflows page appears:

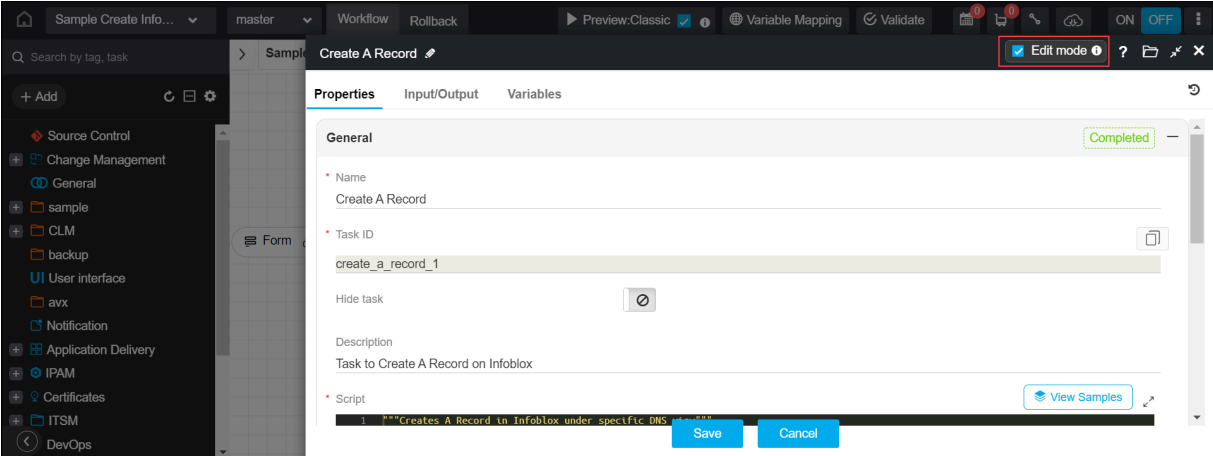


- 2. Click the workflow for which the variables are to be customized.
- 3. Disable the workflow by clicking the **OFF** toggle button.

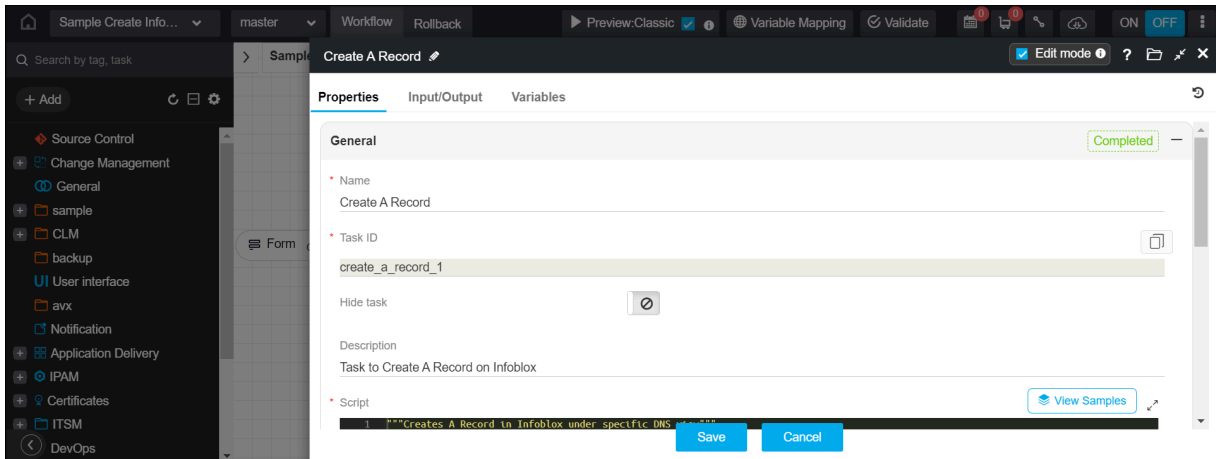


The Confirmation popup appears.

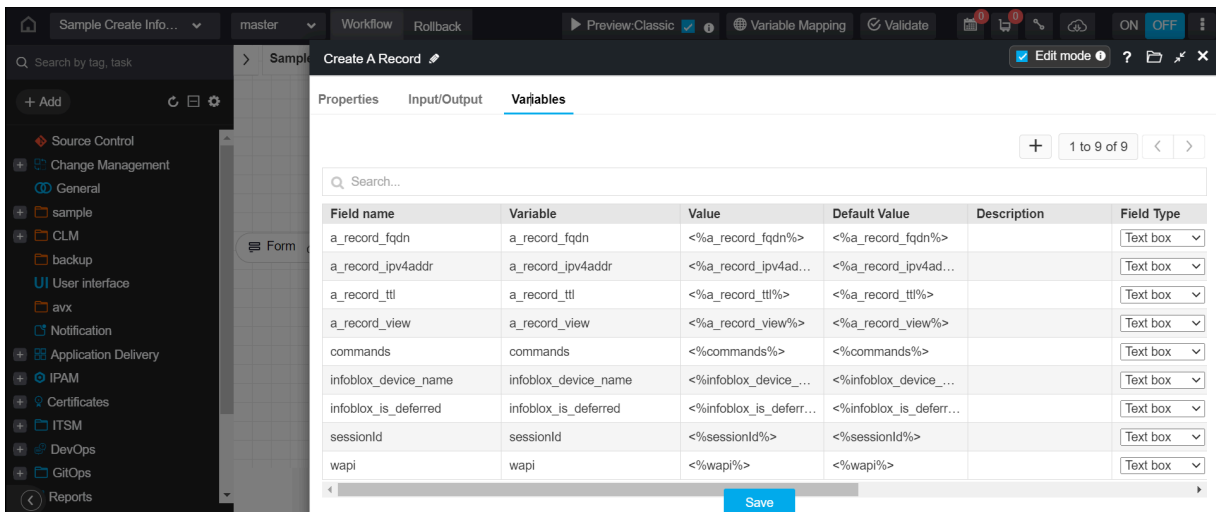
- 4. Click **Yes** to confirm the disabling workflow.
- 5. Click twice on the desired task to customize the variables.
- 6. Make sure the **Edit Mode** check box is selected.



The workflow Properties page appears:



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 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.

- 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:

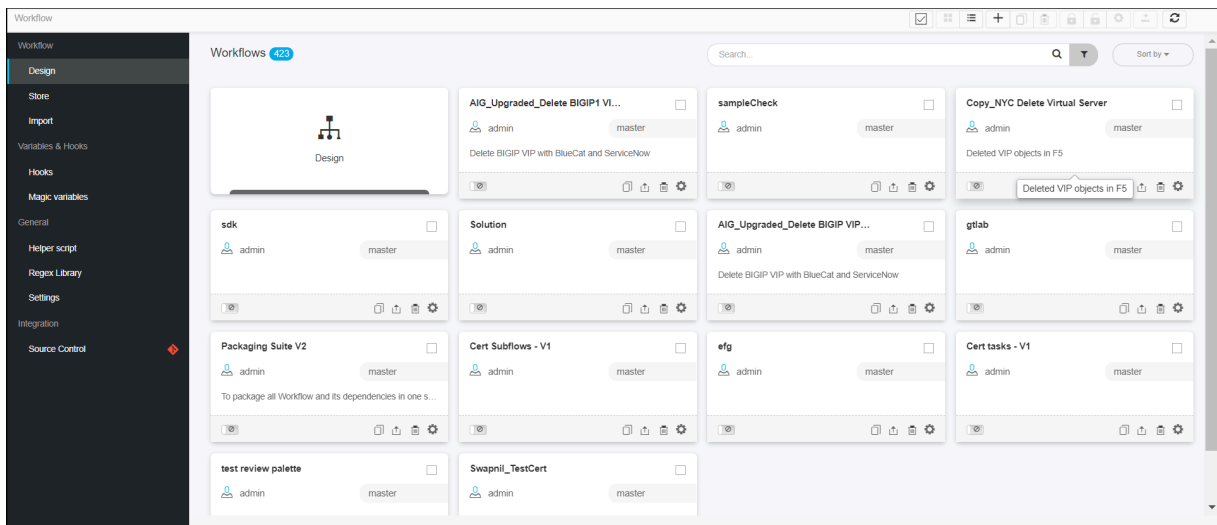
- Sample workflow creation with A, CNAME, and PTR Records in BlueCat
- Customize the variables for a task
- [Sample Workflow Creation with Pool, Pool Members, and Monitor](#)
- [Customize the Variable for a Task](#)

Sample Workflow Creation with Pool, Pool Members, and Monitor

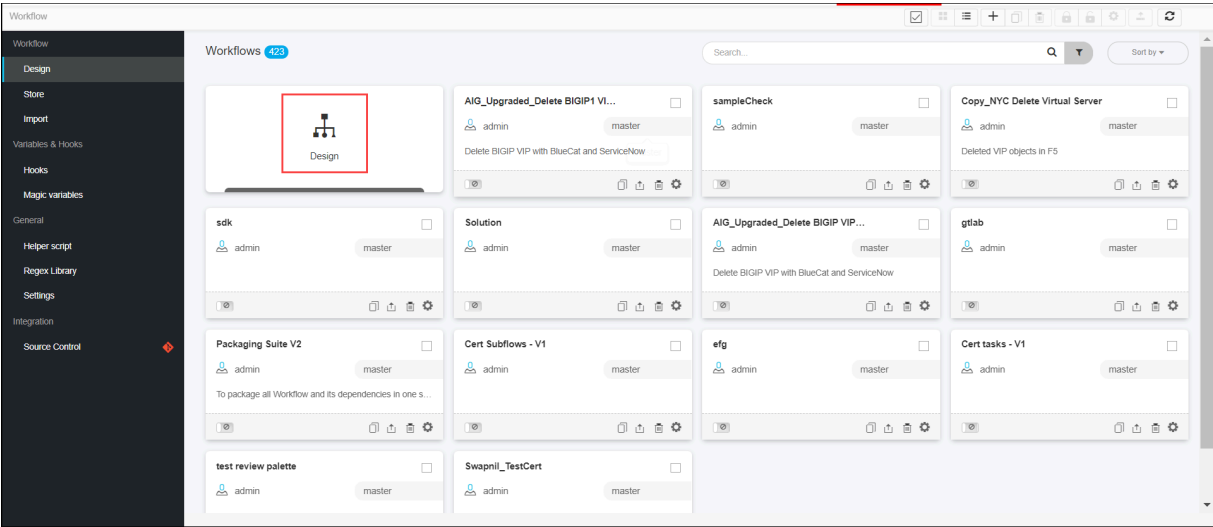
To create a WideIP with pool, pool members, and monitor,

- Go to  **Menu > Studio > Workflow.**

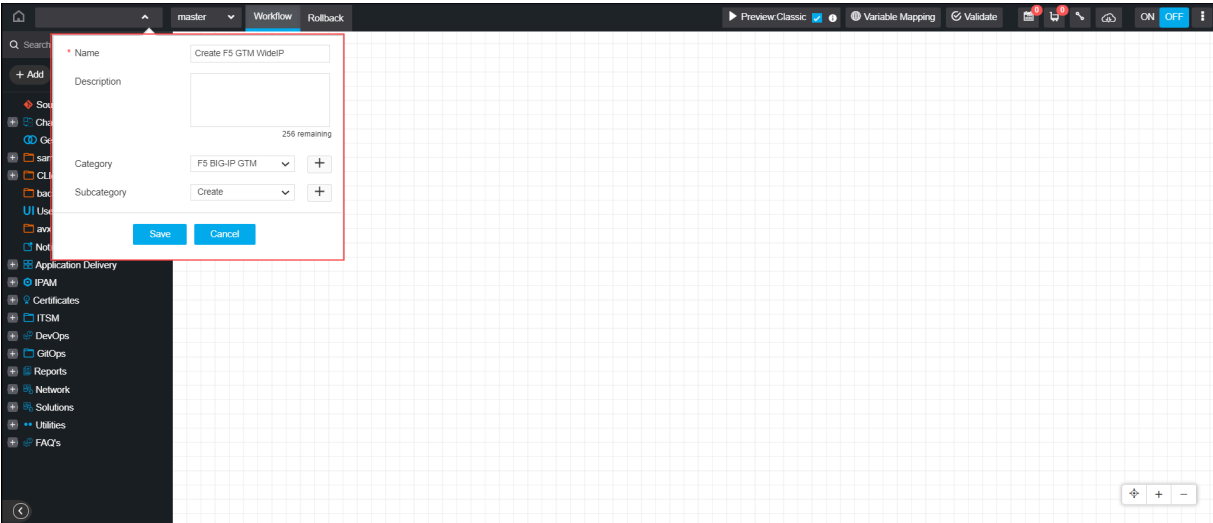
The Workflows page appears:



- Click **Design** to create a new workflow.



3. Enter or select the field information.

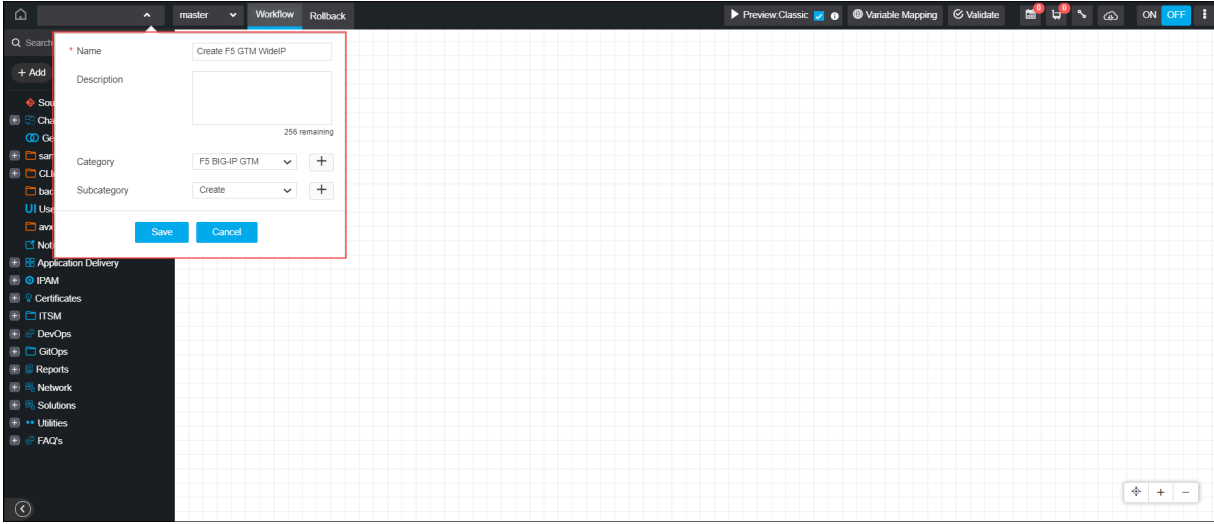


4. The following table provides the field description for designing a workflow for the BIG-IP GTM category:

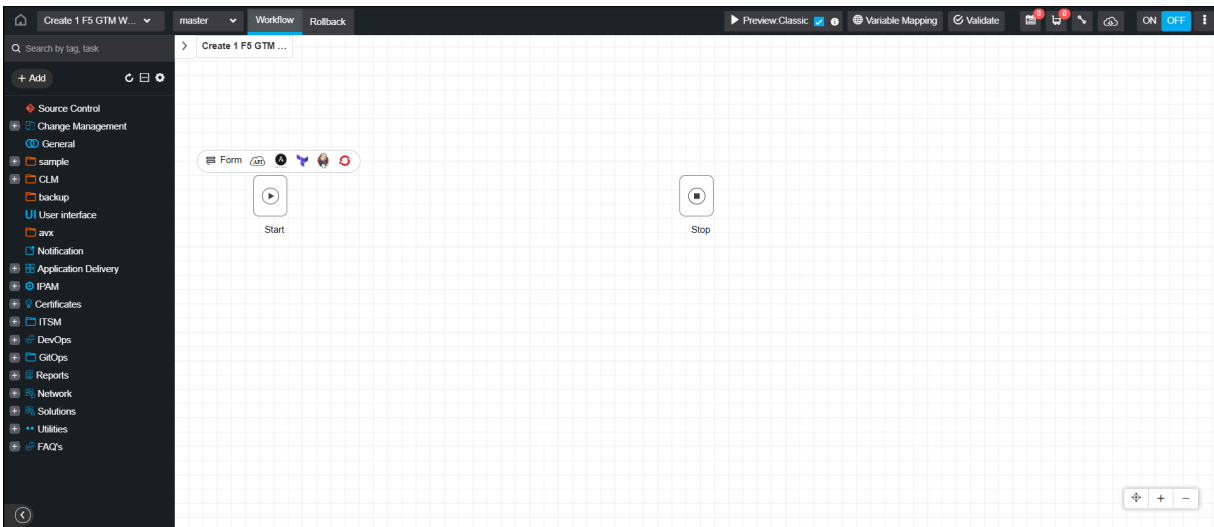
Field	Description
*Name	Name of the workflow.
Description	Description for the workflow.
Category	Select the category as F5 BIG-IP GTM from the drop-down option.
Subcategory	Select sub-category for the workflows from the drop-down option. The possible options are:

Field	Description
	<ul style="list-style-type: none"> • Modify • Create • Default • Delete

5. Click the **Save** button.



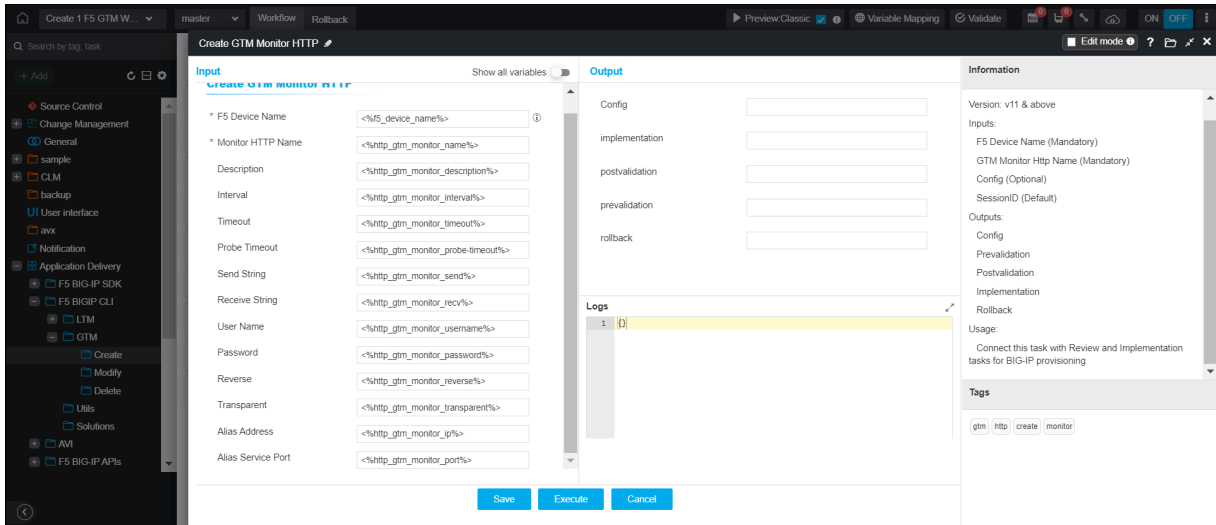
The workflow is created:



6. Go to **Application Delivery > F5 BIG IP CLI > GTM**.

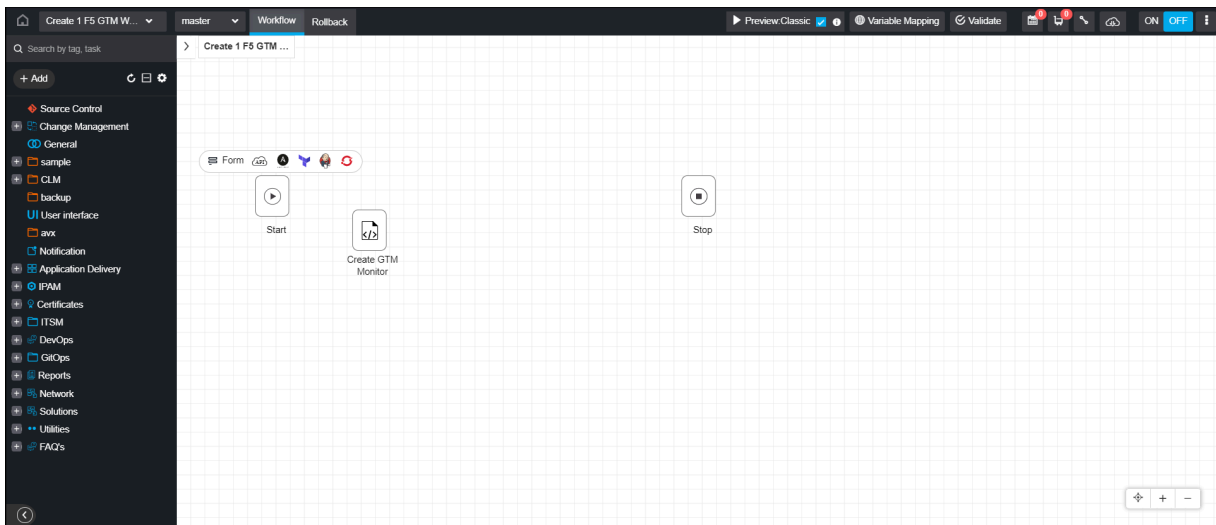
7. Place any **Create GTM Monitor** task. For example, **Create GTM Monitor HTTP**.

The Input, Output, and Information data for **Create GTM Monitor** task are displayed:

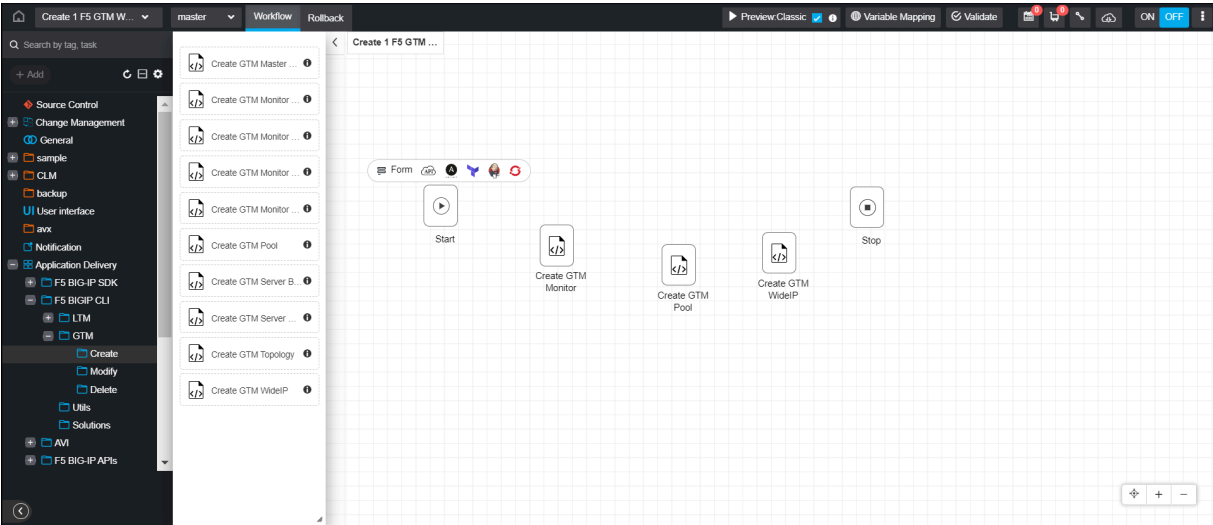


8. Click the **Save** button.

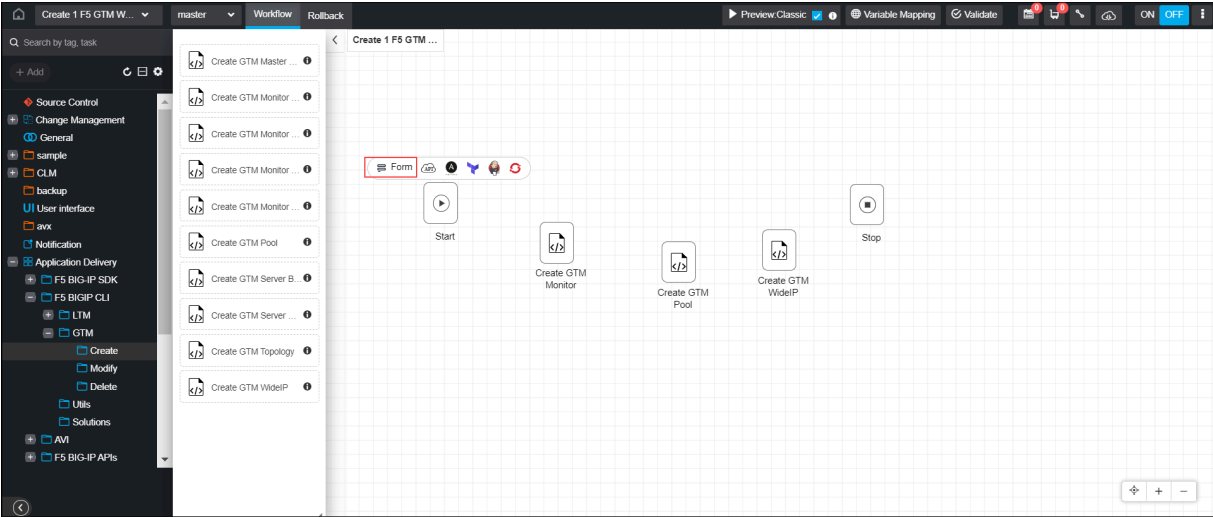
The **Create GTM Monitor HTTP** task has been added to the workflow:



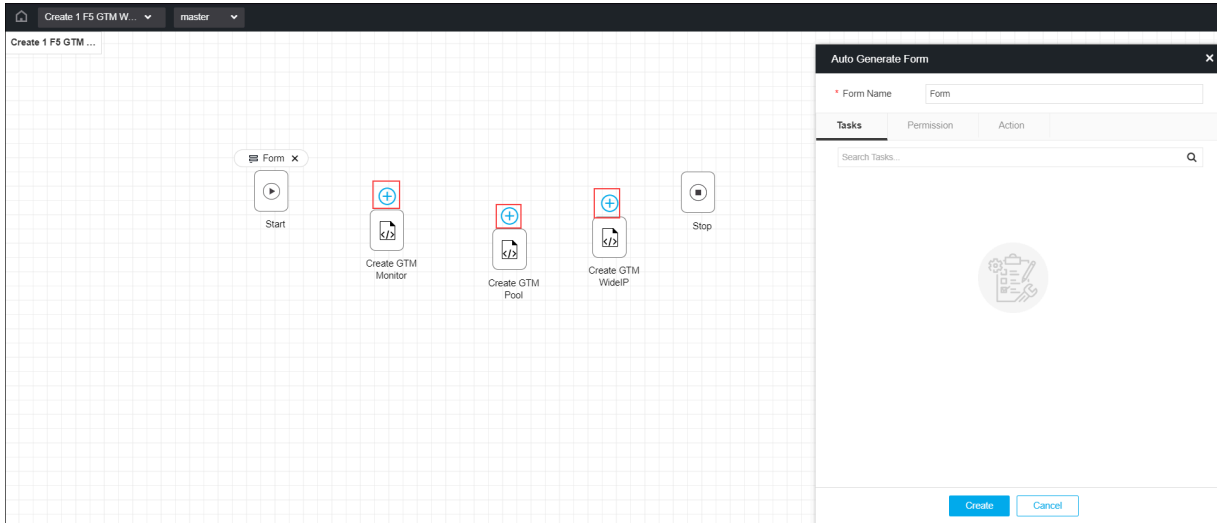
9. Similarly, place **Create GTM Pool** task and **Create GTM WideIP** task from the folder **Application Delivery > F5 BIG IP CLI > GTM**.



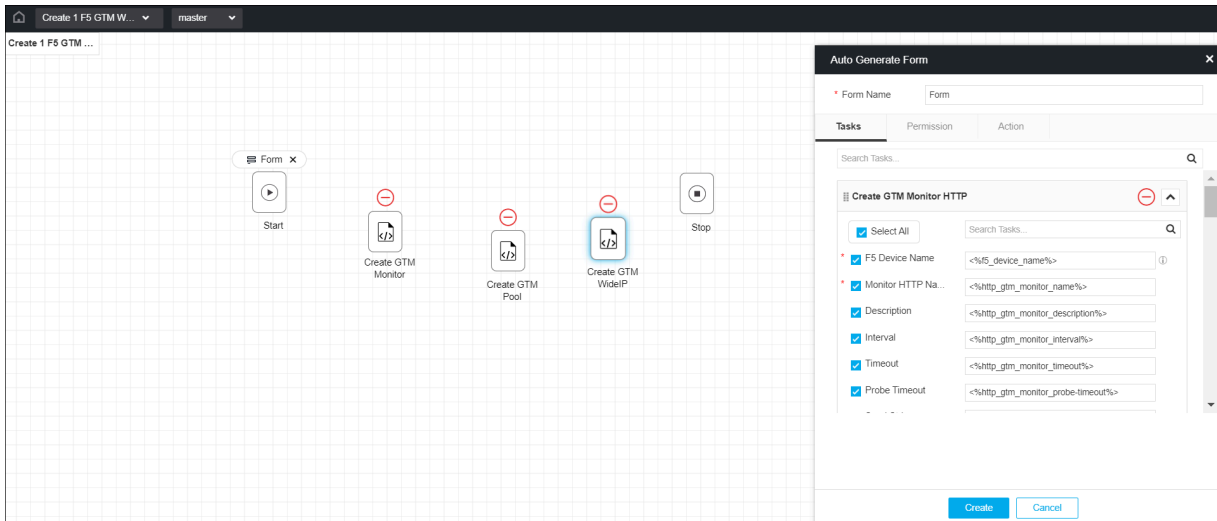
10. Click the **Form** in the Design page to auto-generate the form for the selected tasks.



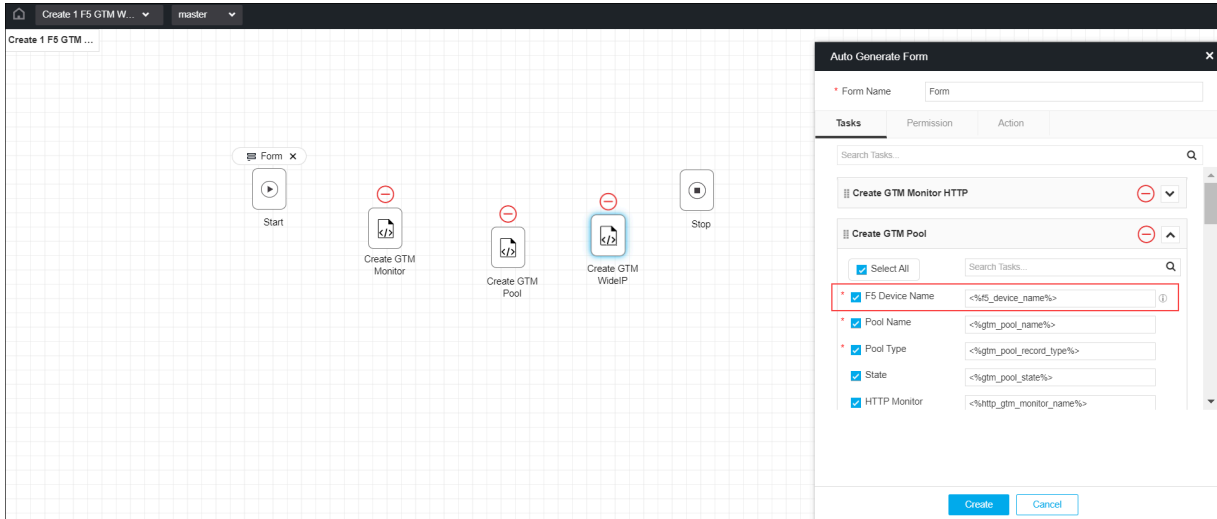
The **Auto Generated** Form appears:



11. Click the add () button of the **Create GTM Monitor HTTP** task, **Create GTM Pool** task and **Create GTM WideIP**.

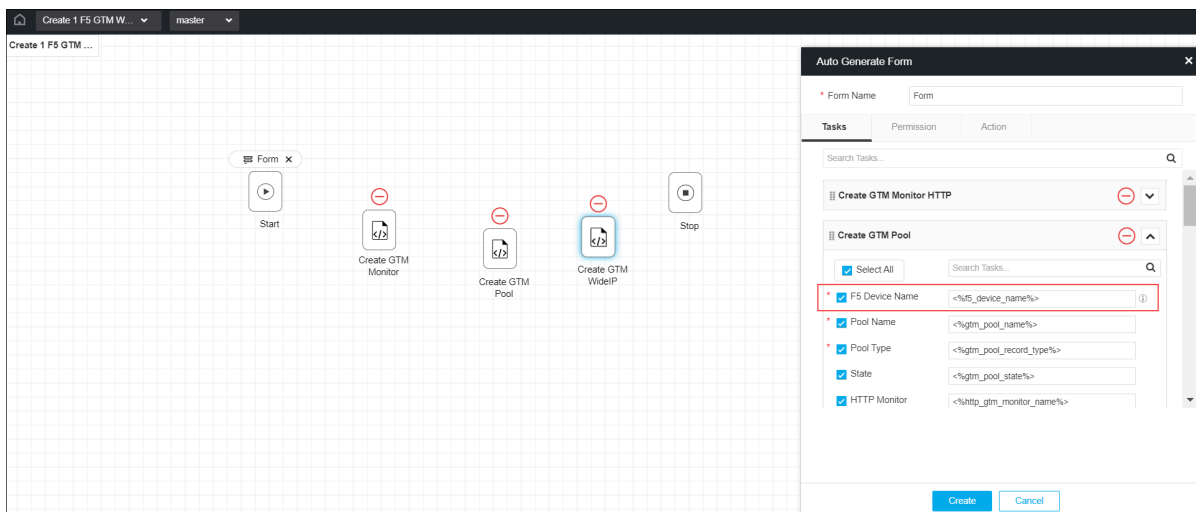


The tasks are added to the Auto Generate Form:

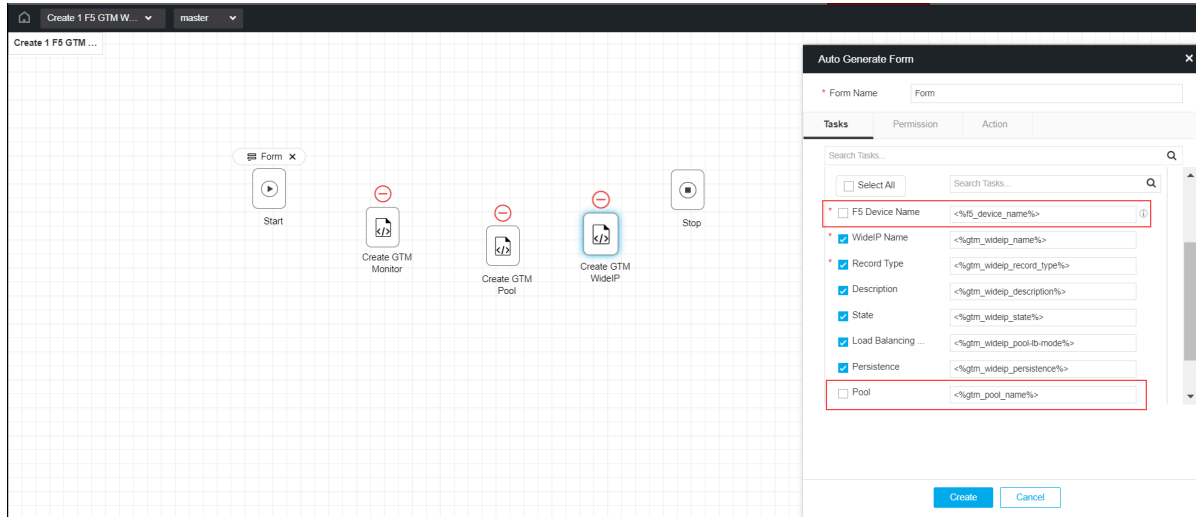


Note: The sequence of the tasks is maintained based on the add button clicked sequence on the tasks. If you want to alter the sequence after adding the tasks to the Auto Generate Form, delete the task(s) from the Auto Generate Form and add them again.

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**.

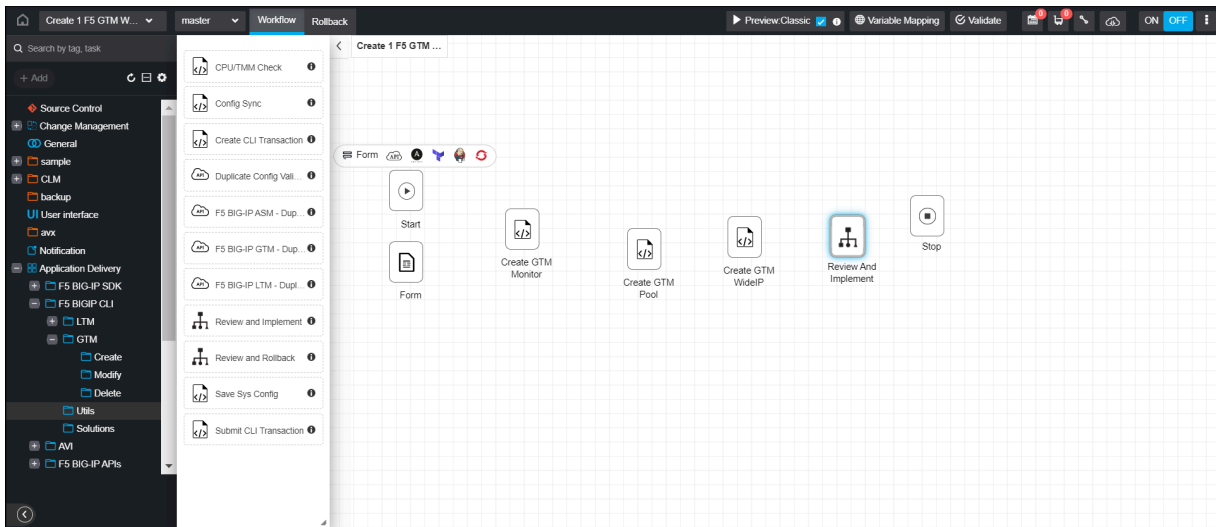


- Clear the checkbox from the **F5 Device Name** and **Pool** fields from the **Create GTM WideIP** task.

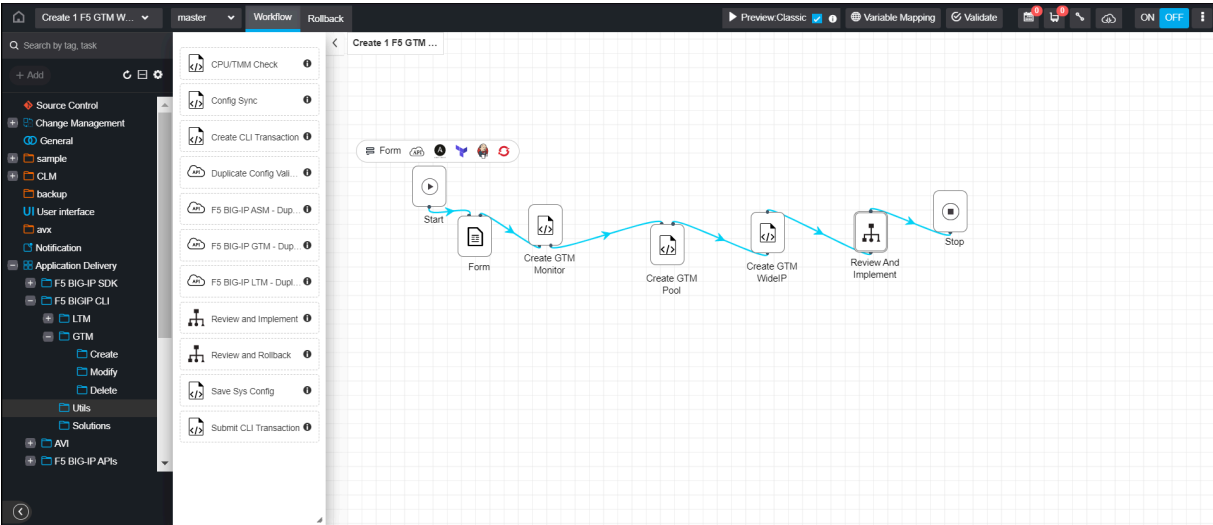


14. Click the **Create** button.

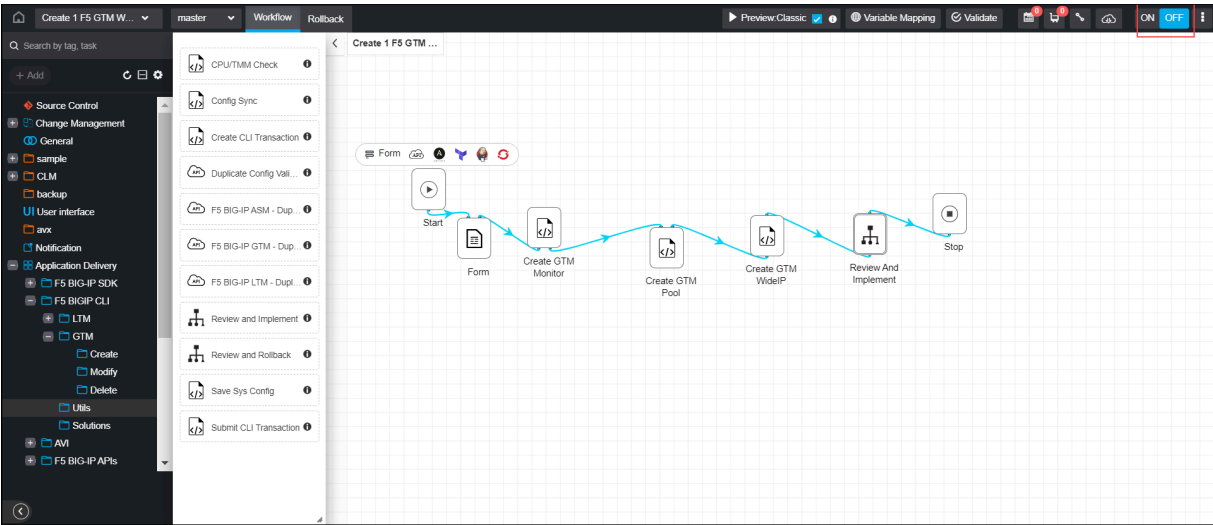
15. Go to **Application Delivery > F5 BIG IP CLI > Utils** folder, and then place **Review and Implement** subflow from the folder.



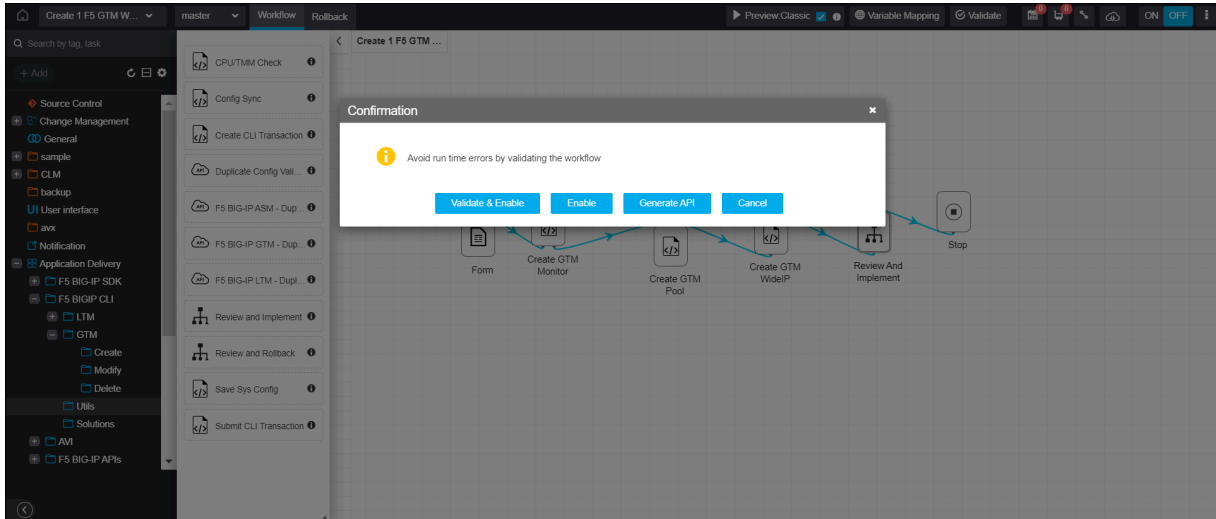
16. Connect all the tasks.



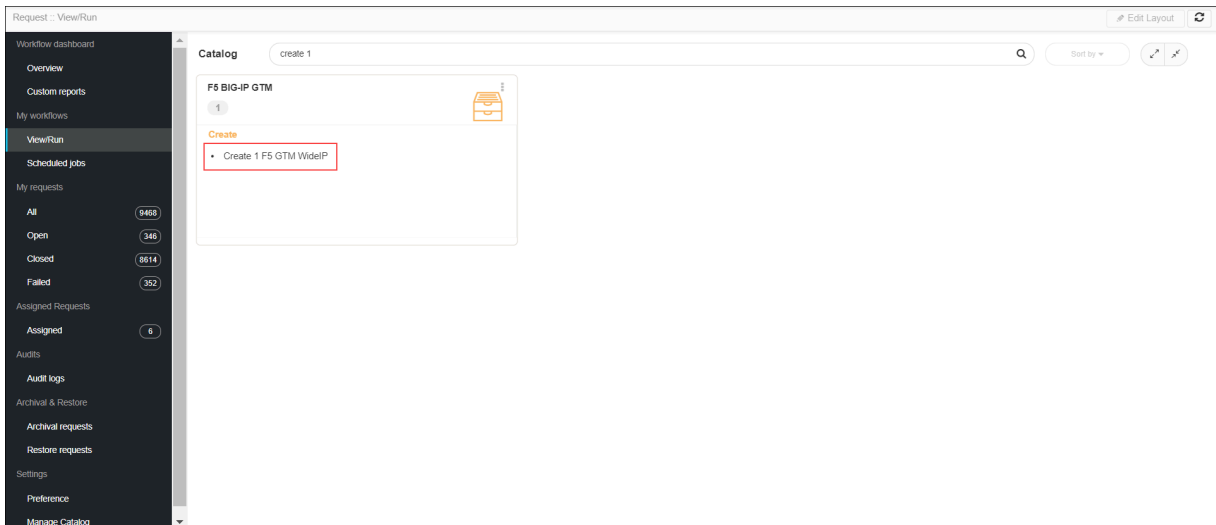
17. Enable the workflow by clicking the **ON** toggle button



18. Click the **Validate & Enable** button.



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.

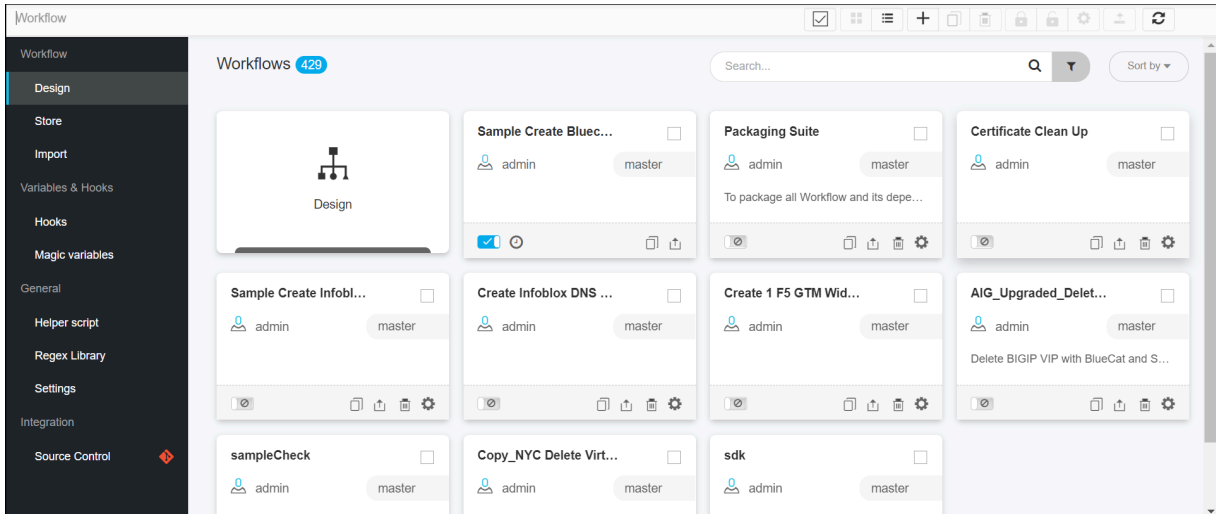
To customize the variables for a task,

1. Go to

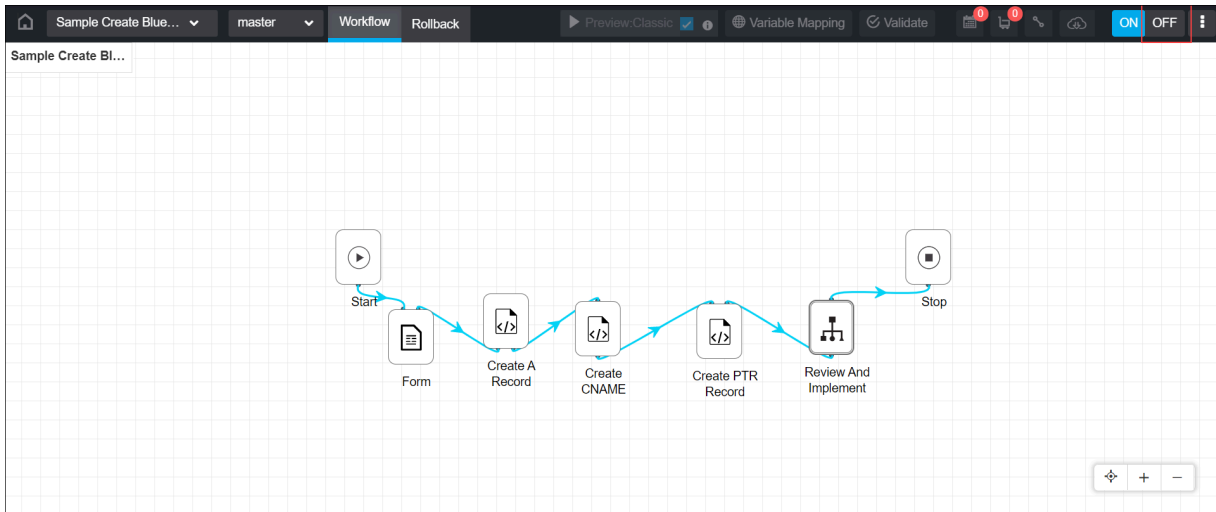


Menu > Studio > Workflow.

The Workflows page appears:

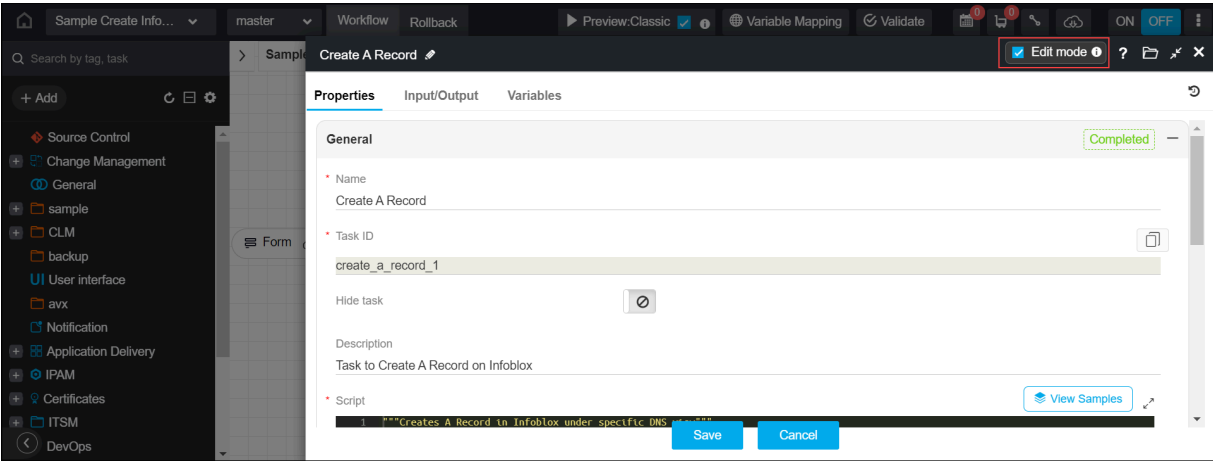


2. Click the workflow for which the variables are to be customized.
3. Disable the workflow by clicking the **OFF** toggle button.

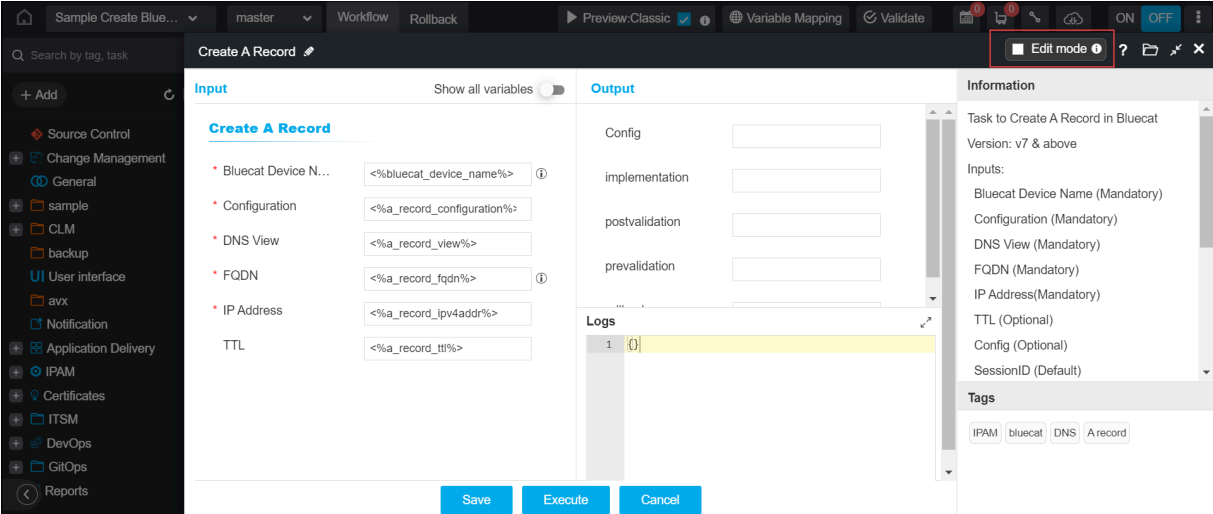


The Confirmation popup appears.

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.



The workflow Properties page appears:



7. Click the **Variables** tab.

Field name	Variable	Value	Default Value
Bluecat Device Name	bluecat_device_name	<%bluecat_device_name%>	(~avx_bluecat_devices
Configuration	a_record_configuration	<%a_record_configuration%>	<%a_record_configura
DNS View	a_record_view	<%a_record_view%>	<%a_record_view%>
FQDN	a_record_fqdn	<%a_record_fqdn%>	<%a_record_fqdn%>
IP Address	a_record_ipv4addr	<%a_record_ipv4addr%>	<%a_record_ipv4addr'
TTL	a_record_ttl	<%a_record_ttl%>	3600
Defer Execution	bluecat_is_deferred	True	True
Commands	commands	<%commands%>	<%commands%>
Sessionid	sessionid	<%sessionid%>	<%sessionid%>



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.