



DDI+ Guides

Version: 2023.1.0 FP3

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Preface

Revision History

Revision	Description	Date
1.2	Updated the document for release 2023.1.0 FP3 HF3.	August 2024
1.1	Updated the document for release 2023.1.0 FP3.	June 2024
1.0	Initial release of document for release 2023.1.0 FP2.	February 2024

About this Guide

This section includes the following guides.

- [DDI+ User Guide](#)
- [DDI+ Admin Guide](#)

Audience

This guide is designed for DNS administrators and Network Operations (NetOps) teams.

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 the 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 with a paragraph, URLs, codes in examples, text that appears on the screen, or text that you enter.

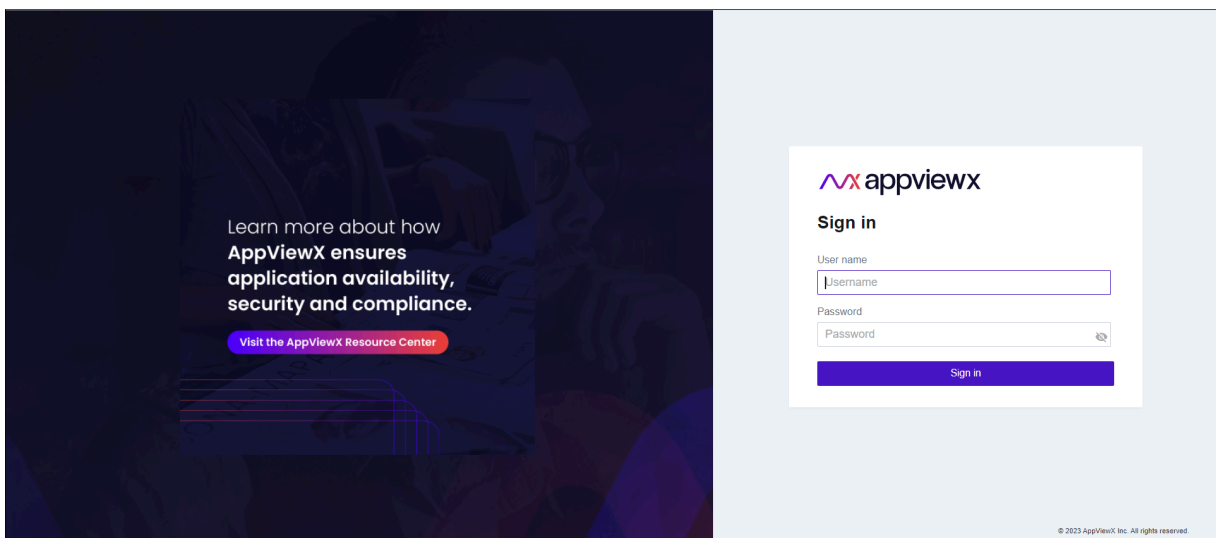
Chapter 1: DDI+ User Guide

- [Accessing the DDI+ Module](#)
- [Introduction](#)
- [Demo Mode](#)
- [Application Topology](#)
- [Getting Started with Dashboard](#)
- [Inventory](#)
- [IP Compliance](#)
- [Self Service](#)

Accessing the DDI+ Module

1. Log into AppViewX with a valid credential (URL provided by AppViewX).

The AppViewX Landing page appears.



2. Go to  (Menu) > **DDI+** .

The **DDI+** module is displayed with the **Get Started** section open by default.

Introduction

DDI+ is a centralized platform designed to simplify and secure the enterprise DNS ecosystem. Experience the convenience of a unified solution seamlessly integrating Domain registrars, DNS, IP Address Management, Load Balancers, Firewalls, and Configuration Management Database (CMDB) assets to streamline the DNS and Domain lifecycle management.

DDI+ Features

Centralised Control and Governance

- Centralized Management of Domain Registrars, DNS, and IPAM.
- Single Source of Truth (SSOT) for Domains, DNS, IPs, Load balancer, and Firewalls

Visibility and Control

- App-centric visibility across DNS, IP, Load Balancers, and Firewalls
- Insights into Domain Expiry and DNSSEC keys (ZSK and KSK)
- IP and CMDB asset violation report
- IP Hygiene Compliance and Remediation

Self-service and Automation

- Automate Domain Lifecycle Management (Domain Procurement, Renewal, Modification, and Create Hosted Zones)
- Automate IPAM and DNS Provisioning

Reports

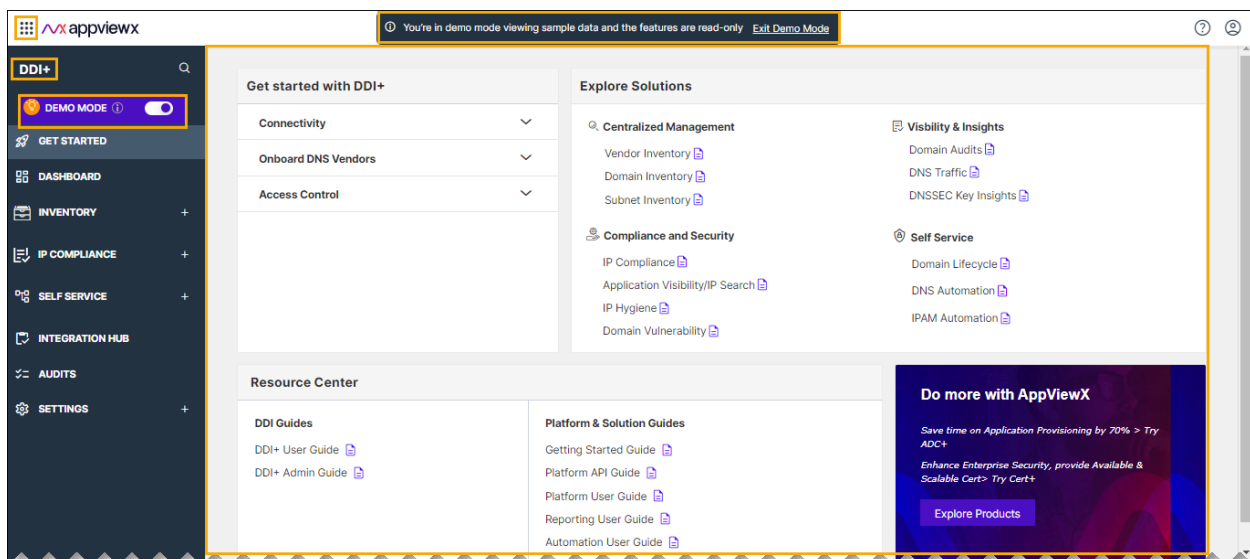
- Orphan/Rogue IP Report
- DNS Traffic utilization
- DNSSEC Keys expiry and rollover
- ADC vs IPAM violation report

Demo Mode

Demo Mode is a state in which the DDI+ system operates to showcase its capabilities and features in a controlled environment. In Demo Mode, you can explore all DDI+ features with sample data, but you will not be able to perform any actions.

The Demo Mode feature option can be found within the left navigation panel. You have the flexibility to enable or disable this feature according to your requirements. Availability of other DDI+ features in Demo Mode might vary depending on the permissions set by the Access Control Framework (ACF).

To access the Demo Mode, Navigate to **Menu > DDI+** and, then click the **DEMO MODE** toggle button. While in Demo Mode, you will notice that the Demo Mode option in the left navigation panel is highlighted. Additionally, there will be a banner displaying content indicating that you are currently in Demo Mode.



- [Enabling Demo Mode](#)
- [Understanding Features in Demo Mode](#)
- [Exiting Demo Mode](#)

Enabling Demo Mode

To enable the Demo Mode:

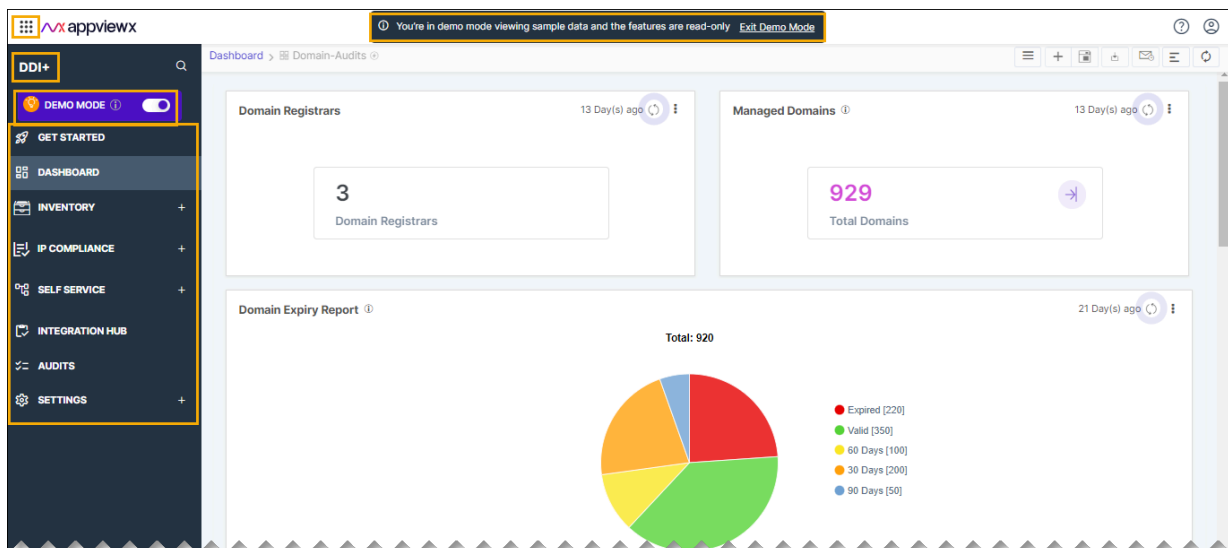
1. Go to **Menu > DDI+**.
2. Click the Demo Mode toggle button.

The Demo Mode option in the left navigation panel is highlighted and a notification message displayed on the banner, indicating that the Demo Mode has been enabled.

Understanding Features in Demo Mode

Though you can not perform any actions within DDI+ while in Demo mode, you can still experience how the output appears for each action performed on the device/object.

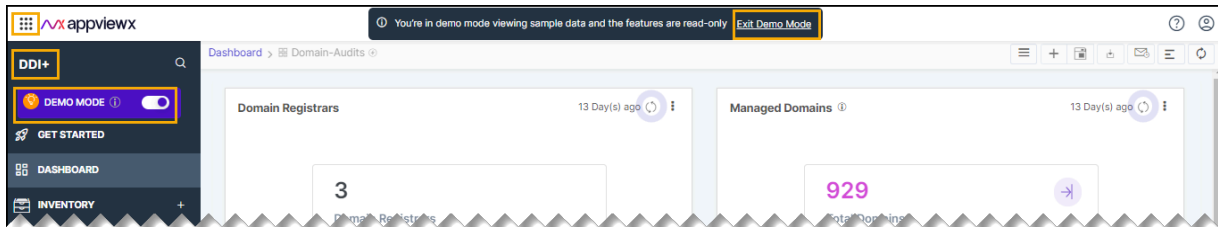
- GET STARTED
- DASBOARD
- INVENTORY
- IP COMPLIANCE
- SELF SERVICE
- INTEGRATION HUB
- AUDITS
- SETTINGS.
-



Exiting Demo Mode

To exit from the Demo Mode:

1. Go to **Menu > DDI+**.
2. Click the Demo Mode toggle button.



The highlight sign on the Demo Mode option in the left navigation panel disappears and the notification message displayed on the banner also disappears.

Application Topology

The application topology enables you to get a holistic insight into your application. It enables you to visualize the entire setup, including DNS entries, server pools, and the firewall. The application topology page initially displays a topology map illustrating all services within a specific icon (application) and their interconnections.

To access the application topology, do the following steps.

1. Go to **DDI+ > APPLICATION TOPOLOGY**.

The **Holistic View** page is displayed.

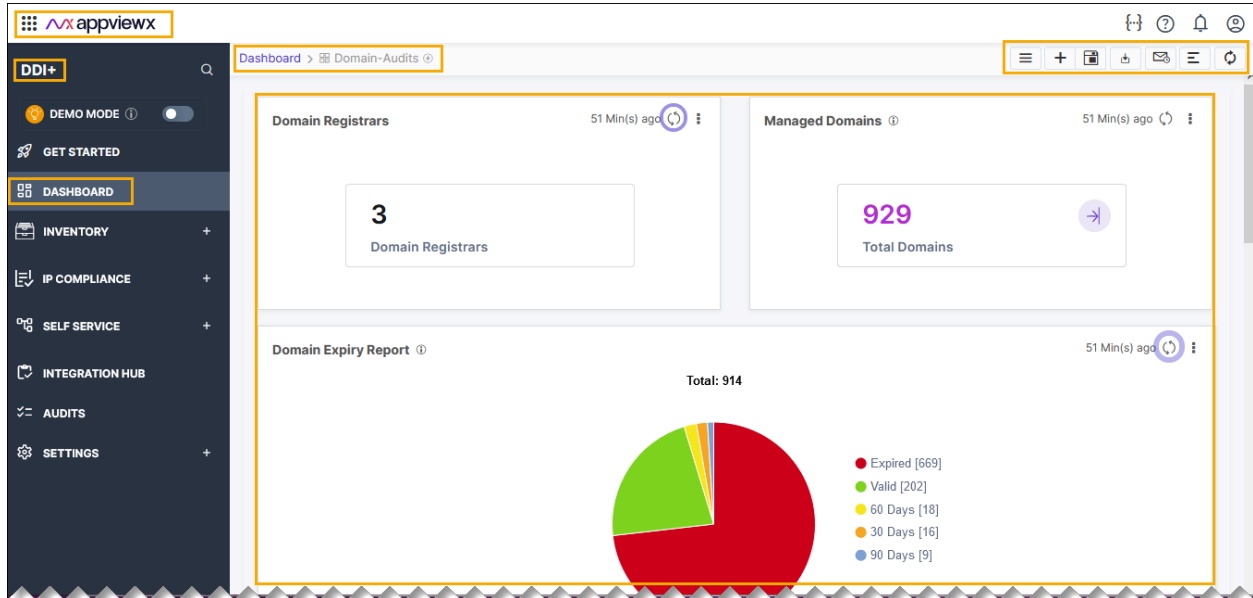
2. Enter the domain name in the search field, and then click **Search**.

The application topology **Summary** page is displayed.






The screenshot displays the AppViewX DDI+ interface. On the left is a dark sidebar with navigation items: DDI+, DEMO MODE (toggle), GET STARTED, DASHBOARD, Application Topology (highlighted), INVENTORY, IP COMPLIANCE, SELF SERVICE, INTEGRATION HUB, AUDITS, and SETTINGS. The main content area shows a search for 'ddiavx.topology.avxtest.info'. A 'Summary' panel lists metrics: 7 ADC, 1 WideIP, 2 LTM VIP Pool Member, 1 LTM VIP, and 1 WideIP Pool. A detailed view for 'ddiavx.topology.avxtest.info' shows: FQDN: ddiavx.topology.a..., CNAME: topology.avxtest.i..., Category: DNS, Record Type: CNAME, Dns Account: GoDaddyOTE, Domain Name: avxtest.info, Domain Vendor: GoDaddy, Domain Account: GoDaddyOTE, and Vendor: GoDaddy. A vertical flow diagram on the right shows the domain's infrastructure: Register: GoDaddy avxtest.info, DNS: GoDaddy x.topology.avxtest.info, and WideIP: S topology.avxtest.info.


Getting Started with Dashboard

The DDI+ module dashboard provides a comprehensive summary of metrics including Domain Audits, IP Compliance, DNS Zone Traffic Reports, F5 DNS Security Reports, Microsoft DNS Audits, and Domain Vulnerability Insights. You can access the features under **DASHBOARD** from the left menu.



- **Dashboards** - Dashboard display reports and widgets that provides consolidated statistics of all data from the respective inventories and recording the key value indicators. The following table describes the options available on this dashboard:

Options	Description
Dashboard name	Displays the name of the current dashboard.
Options	Description
	Allows you to navigate to the Dashboard inventory.
Options	Description
	Allows you to create a dashboard/widget.
Options	Description
	Allows you to save the dashboard.
Options	Description
	Allows to download the dashboard details in the <.pdf> format.
Options	Description
	Allows you to align the widgets on the dashboard.

Options	Description
	Refreshes the dashboard.

- **Custom dashboards** - These dashboards display reports and widgets created and pinned by the user. Widgets and reports on these dashboards can be added, removed, or modified as necessary and can also be shared among multiple roles. These dashboards can also be downloaded to your laptop.

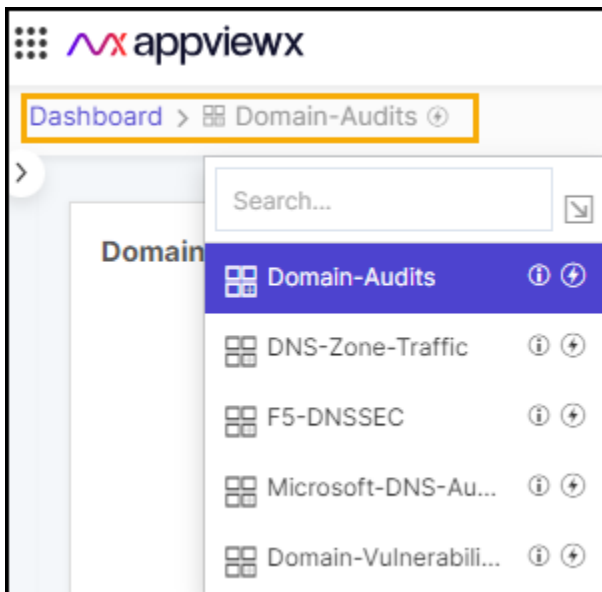
Accessing the Dashboard


To access the dashboard:

1. Go to **Menu > DDI+ > DASHBOARD**.

The dashboard home page appears.

2. Move your cursor to the breadcrumbs field of the current dashboard.
3. Click the current dashboard name.
4. In the dropdown list that appears, click the name of the dashboard you want to view.



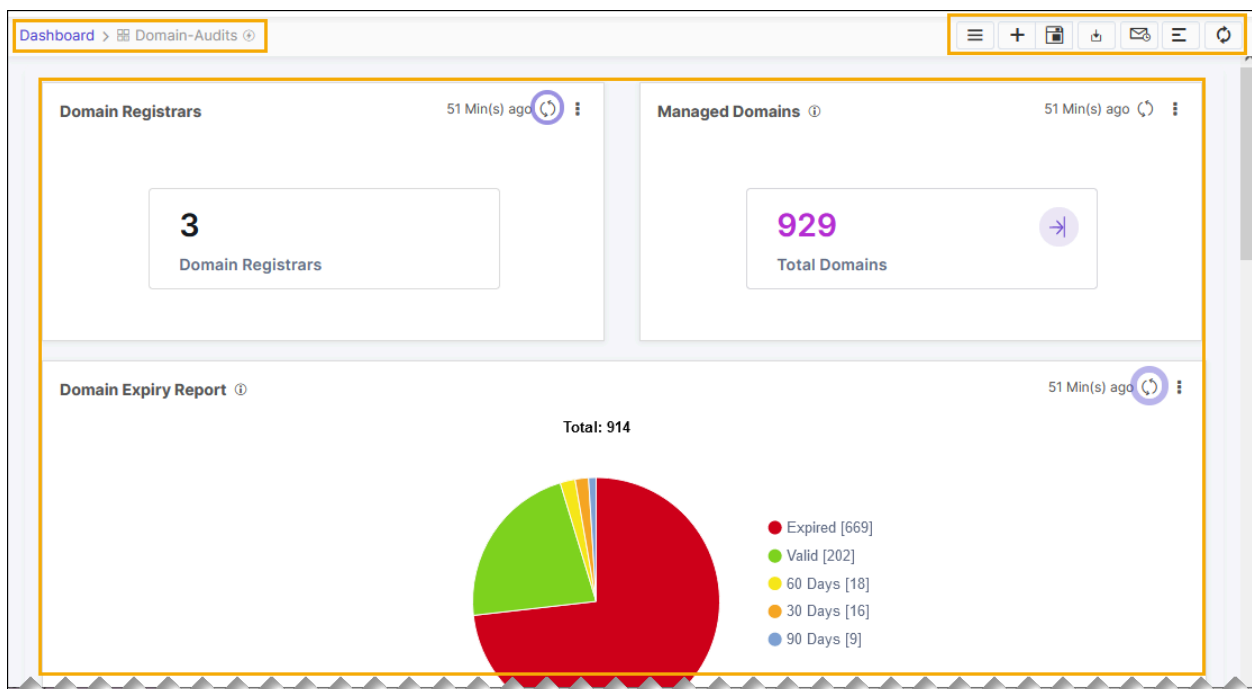
Note: You can also click the  (**Dashboard inventory**) button in the Command Bar and click the name of the dashboard you want to switch to.

- [Domain Audits](#)
- [DNS Zone Traffic Reports](#)

- [F5 DNS Security Reports](#)
- [Microsoft DNS Audits](#)
- [Domain Vulnerability Insights](#)
- [Downloading and Exporting the Dashboard Reports](#)

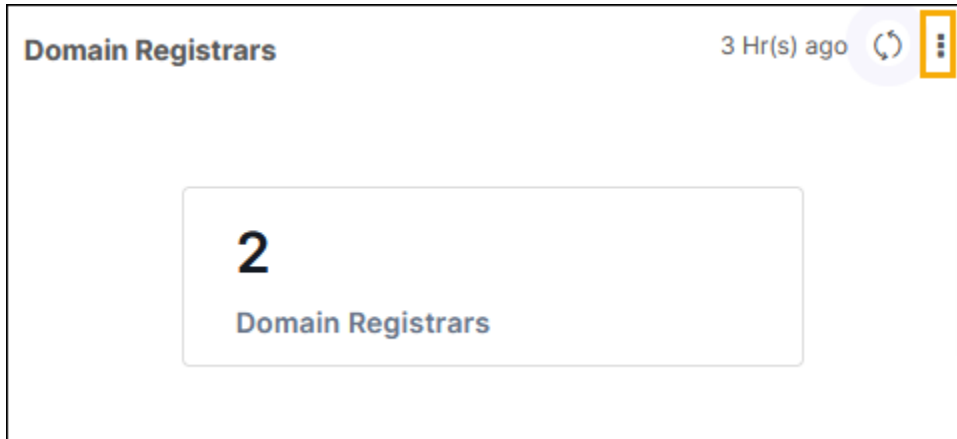
Domain Audits

Domain audits dashboard provides a comprehensive overview of domain landscape in an enterprise. Track the total count of managed domains, get expiry reports, and analyze expiration trends. Additionally, explore the distribution of domains across various top-level domains (TLDs).

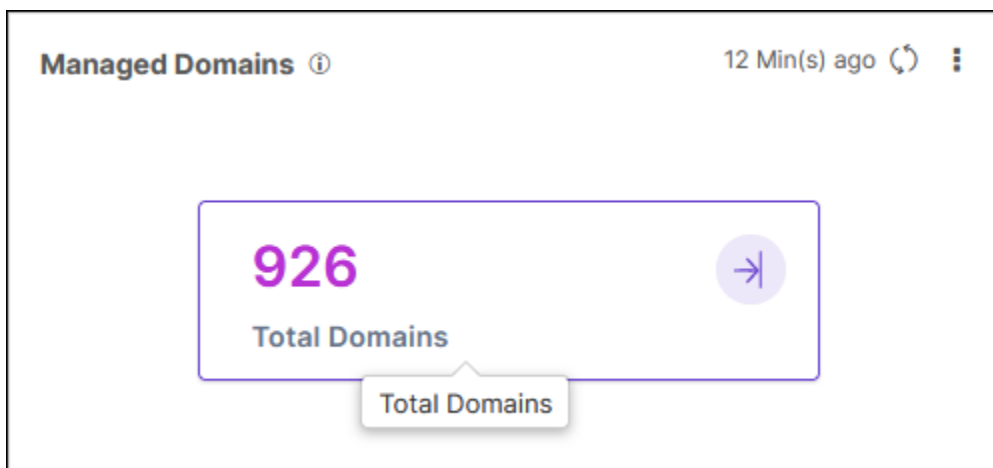


The following reports are available under the **Domain Audits** tab:

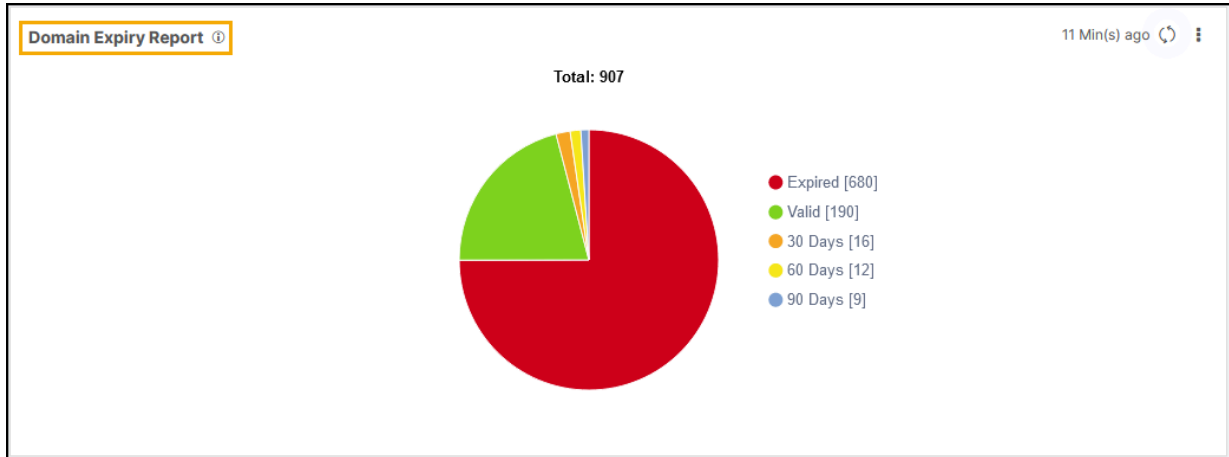
- **Domain Registrars:** This metric displays the total number of domain registrars configured in DDI+ integration hub.



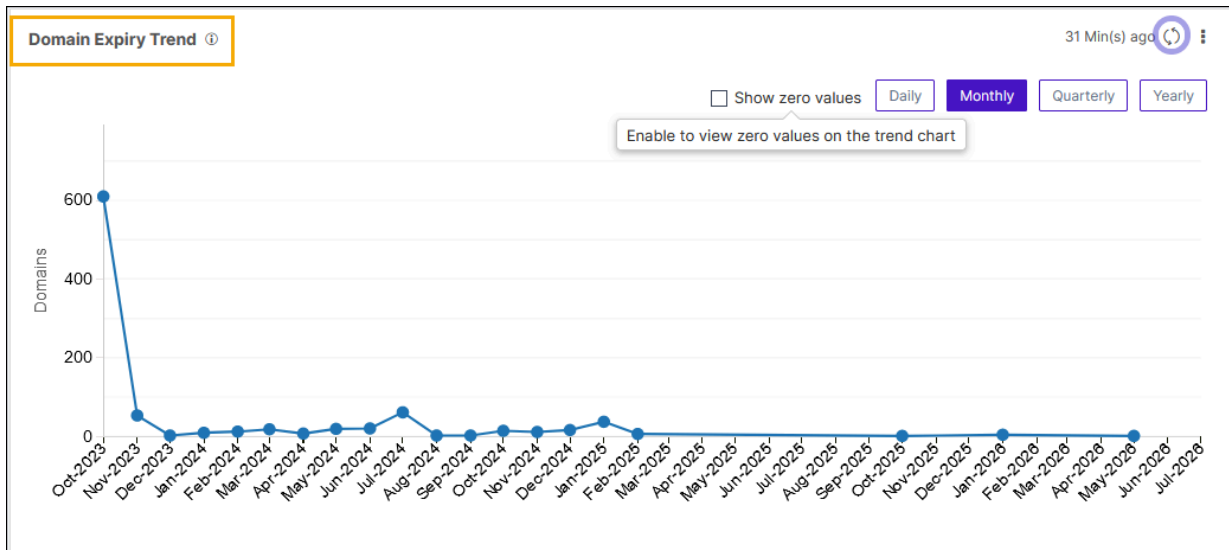
- **Managed Domains:** This metric displays the total number of managed domains in the inventory.



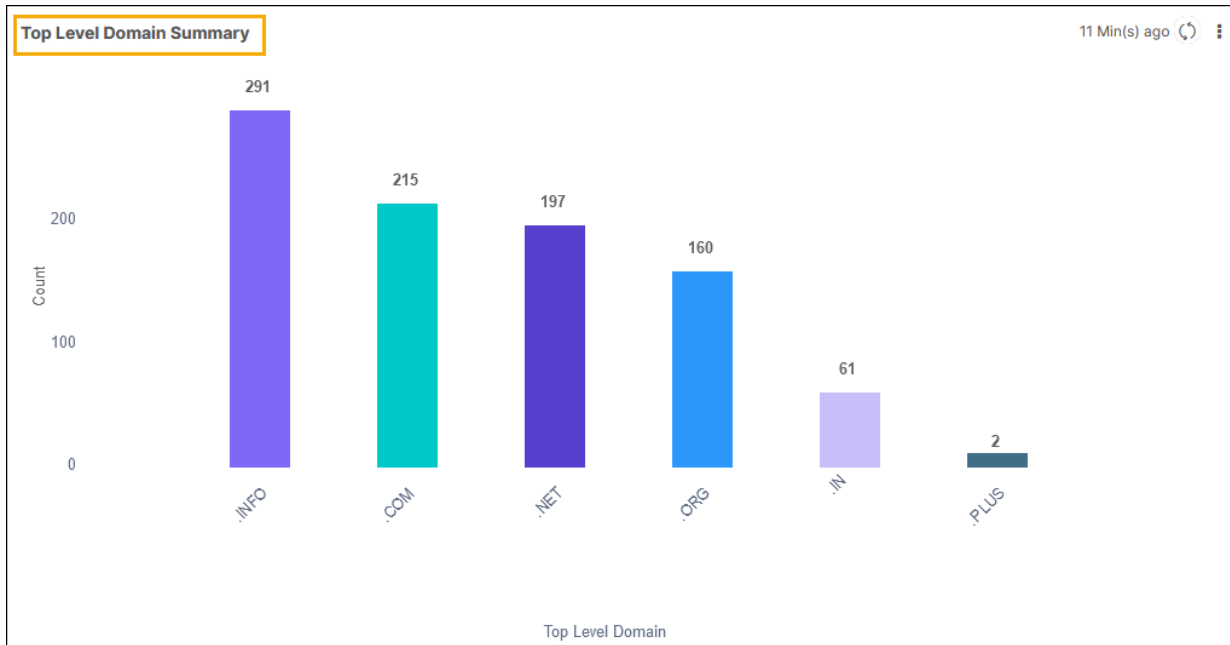
- **Domain Expiry Report:** This report displays the expiry status of the domains. The different colored sections of the pie represent the status of the domains with respect to expiry. For example: valid, expired, expiring in 30 days, 60 days, and 90 days.



- **Domain Expiry Trend:** This trend line chart illustrates the monthly, yearly, and quarterly trends of domain expiry.



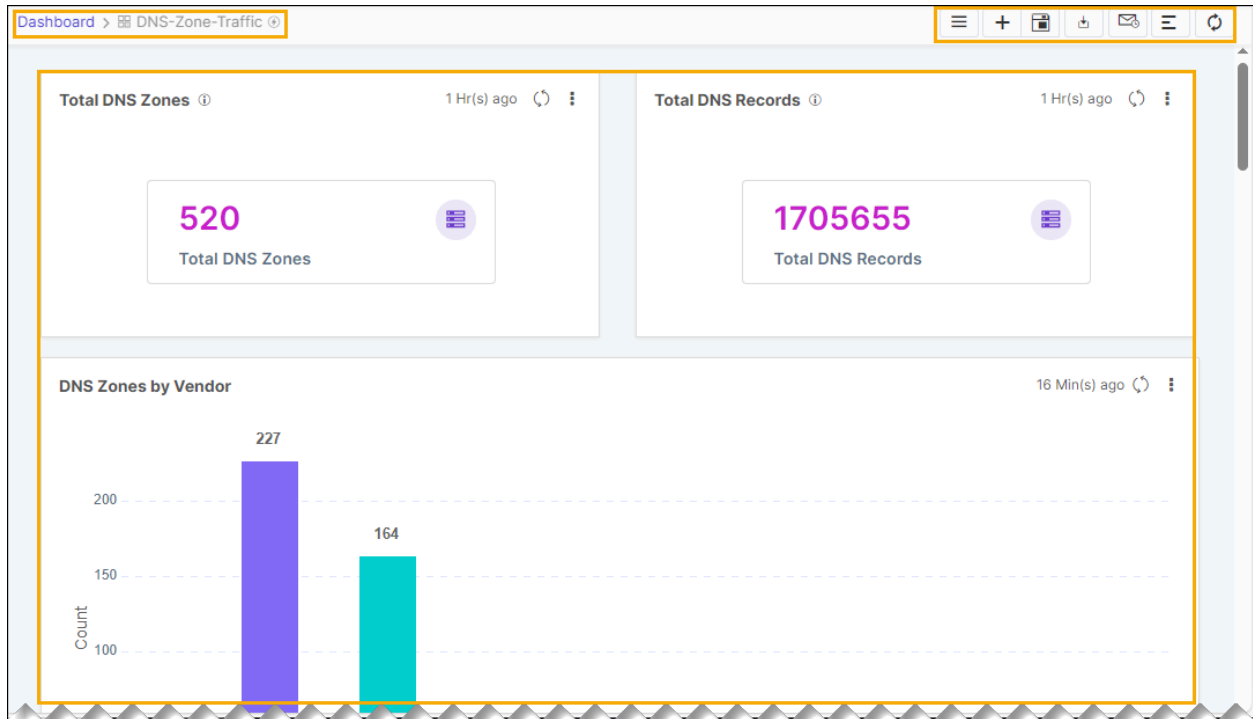
- **Top Level Domain Summary:** This report offers a view of the number of domains categorized by Top-Level Domain (TLD).



Note: You can click on the corresponding metric to view the detailed information.

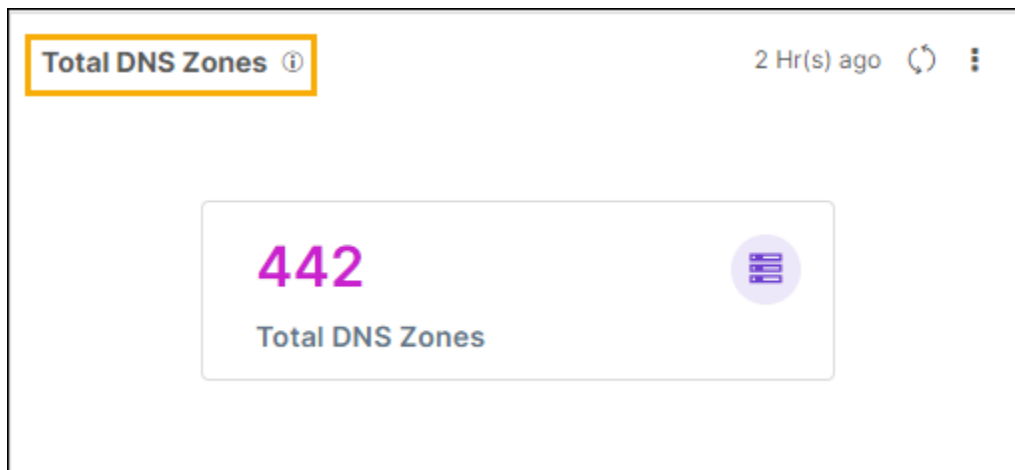
DNS Zone Traffic Reports

In this dashboard users can get insights into the DNS landscape, traffic information, and across multiple DNS Vendors.

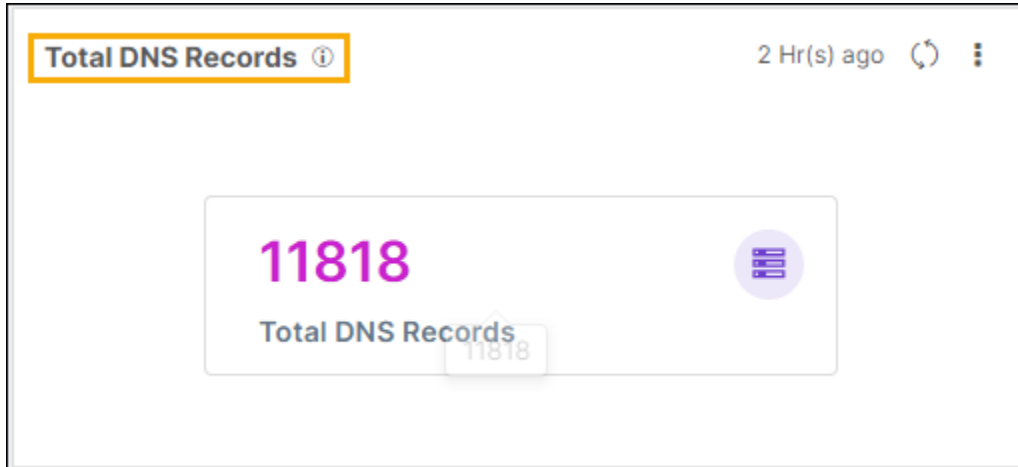


The following reports are available under the **DNS Zone Traffic** tab:

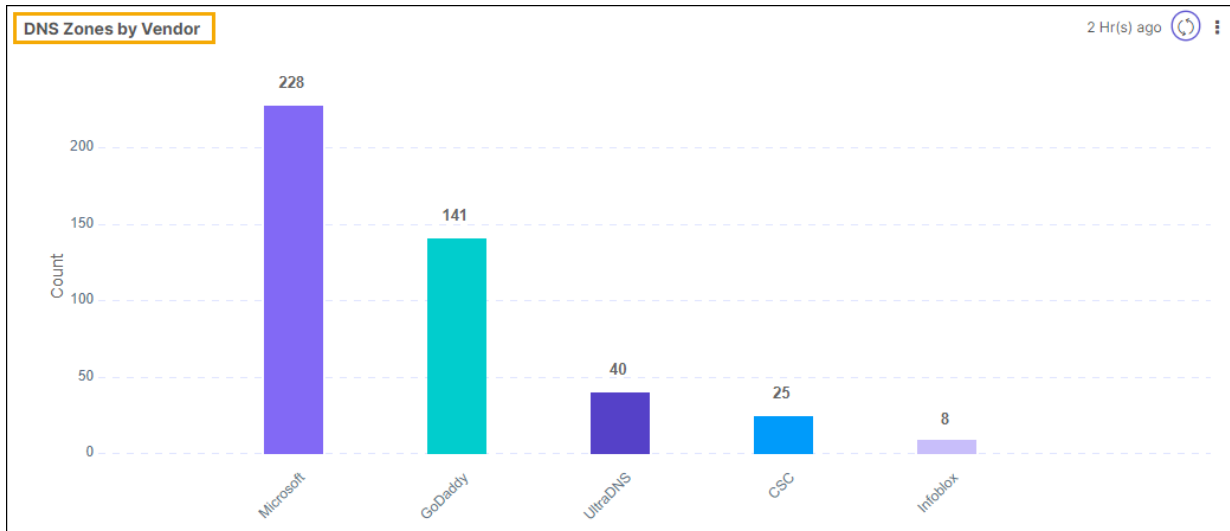
- **Total DNS Zones:** This metric displays the total number of DNS zones managed in the inventory across DNS vendors.



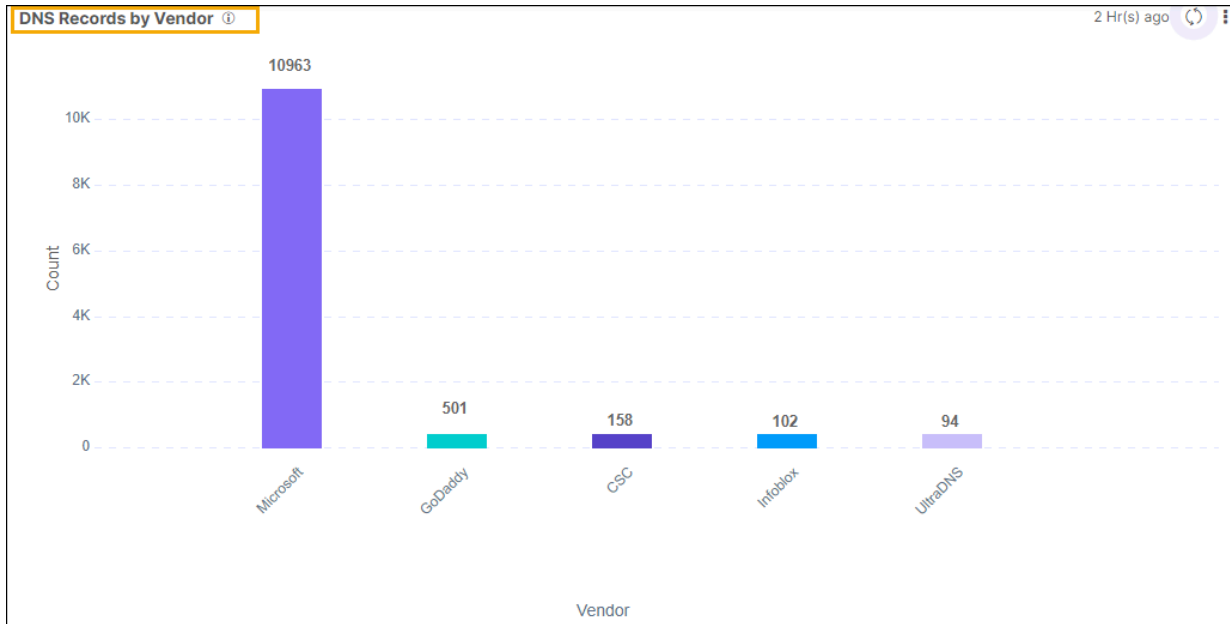
- **Total DNS Records:** This metric displays the total number of DNS records managed in the inventory across DNS vendors.



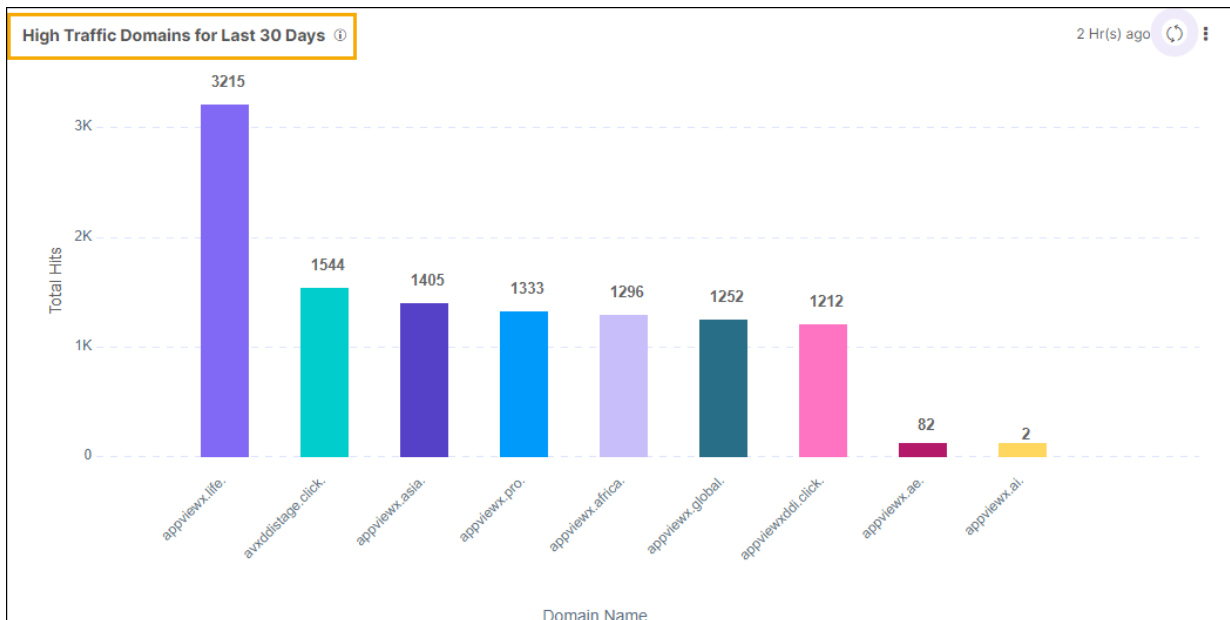
- **DNS Zones by Vendor:** This report displays the number of zones registered by vendor. The X-axis represents the names of the vendors and Y-axis represents the number zones per vendor.



- **DNS Records by Vendor:** This report displays the total number of DNS Records managed across DNS vendors configured in the integration hub. The X-axis displays the names of the vendors and Y-axis represents the number of DNS records.



- **High Traffic Domains for Last 30 Days:** This graph displays information about the domains that received high traffic in the last 30 days. The X-axis represents the domain names and Y-axis represents the number of hits to the domain (in thousands).



- **DNS records count per domain:** This grid displays information about the number of DNS records for each domain. Only 25 records are displayed at a time. You can use the pagination arrows to view more records. Type the domain name in the search bar for DNS records information for that domain.

DNS records count per domain ⓘ 11 Day(s) ago ↻

1 to 25 of 655 < >

Q Search...

Domain Name	A Records	CNAME Records	MX Records	NS Records
akamaiddidemotest.net	9	12	0	3
app1.net	4	8	0	4
app3.net	4	8	0	4
app4.net	4	8	0	4
appdemo.net	3	3	0	3

- **DNS Traffic for Last 30 Days:** This grid displays information on the traffic hits on all domains in the last 30 days. Only 25 records are displayed at a time. You can use the pagination arrows to view more records. Type the domain in the search bar for expiry information about a specific domain.

DNS Traffic for Last 30 Days ⓘ 2 Hr(s) ago ↻

1 to 49 of 49 < >

Q Search...

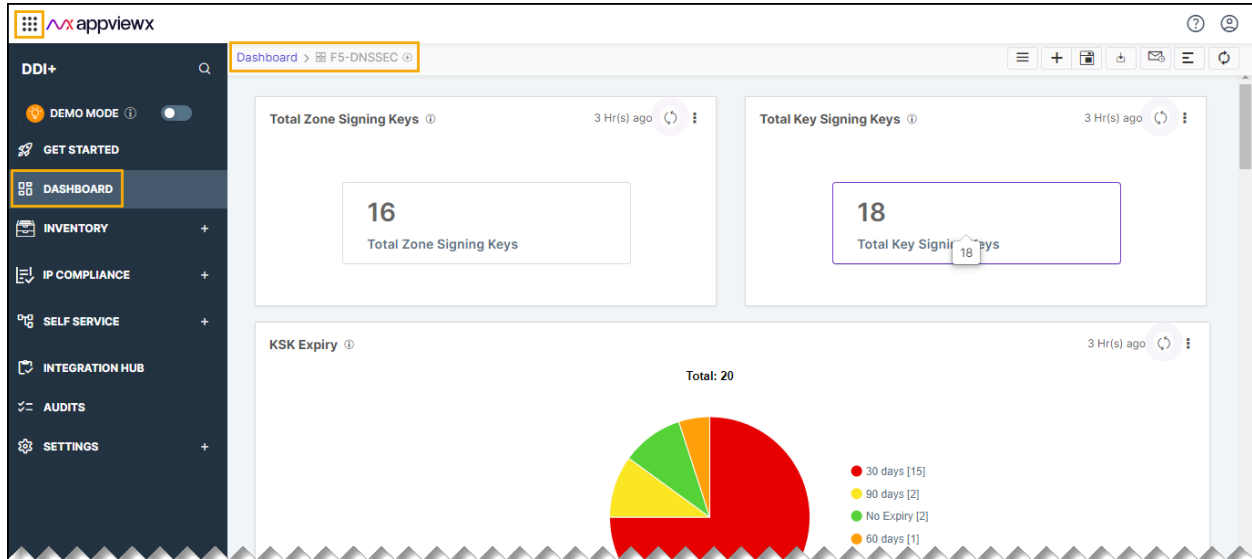
Domain Name	DNS Provider	Total Hits	Total NXDOMAINS
appss30.info	UltraDNS	0	0
appviewx.ae	UltraDNS	0	0
appviewx.ae.	UltraDNS	82	0
appviewx.africa	UltraDNS	0	0



Note: You can click on the corresponding metric to view the detailed information.

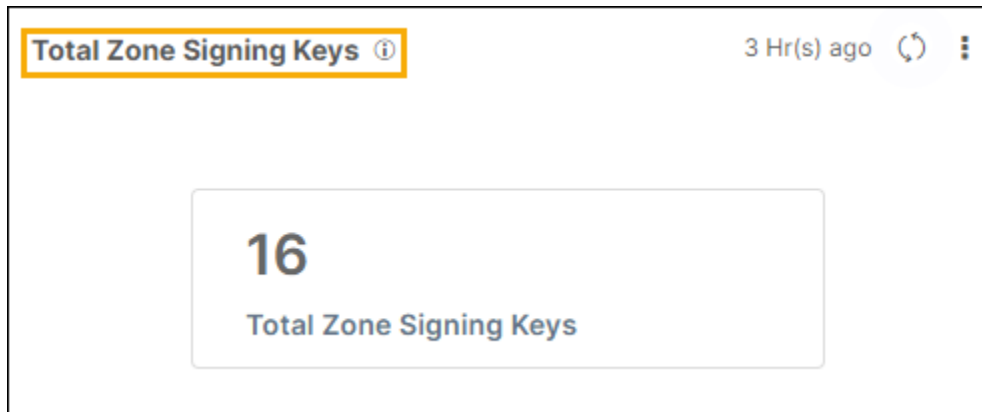
F5 DNS Security Reports

The DNSSEC Dashboard for F5 offers visibility and insights into the management of DNSSEC Keys within F5 DNS. It provides information on the expiration status of KSK keys and trends regarding their expiry. Additionally, it presents a single view of the mapping between Zones and keys.

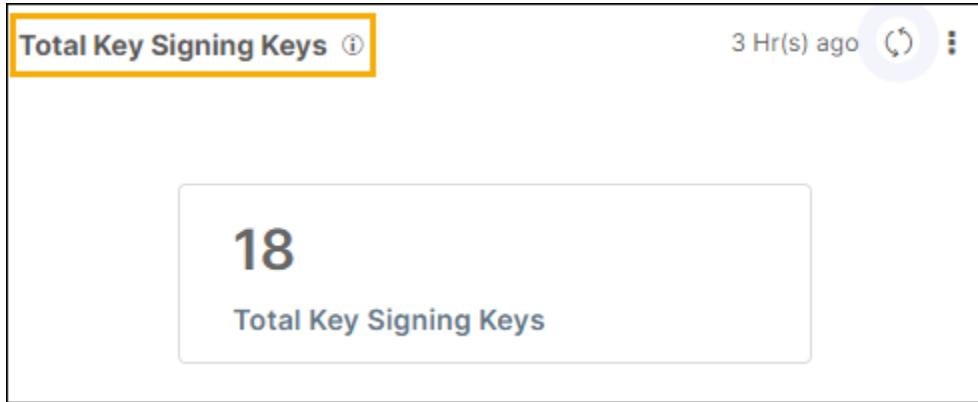


The following reports are available under the **F5_DNSSEC** tab:

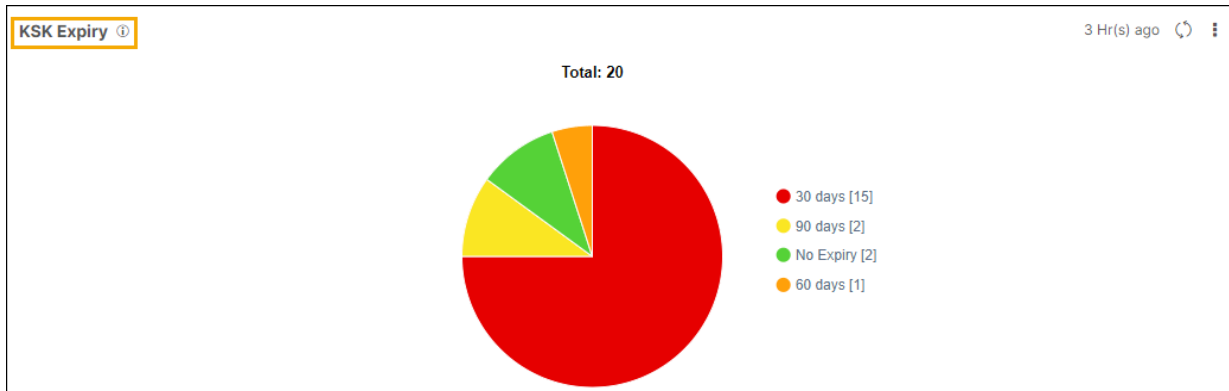
- **Total Zone Signing Keys:** This metric displays the total number of Zone Signing Keys present across the F5 DNS managed in AppViewX.



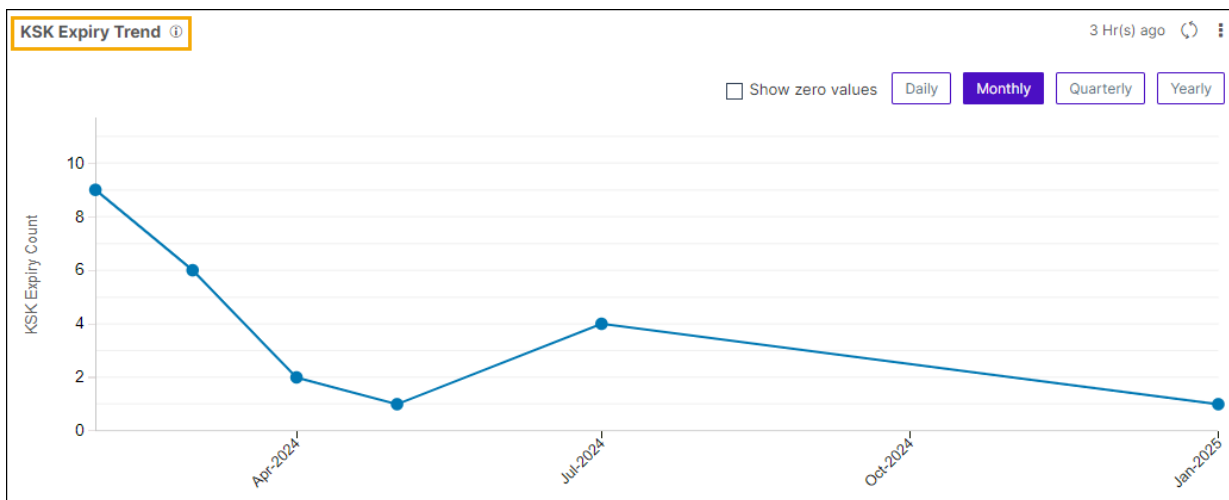
- **Total Key Signing Keys:** This metric displays the total number of Key signing key present across the F5 DNS managed in AppViewX.



- **KSK Expiry:** This report displays the expiry status of the key signing keys. The different colored sections of the pie represent the expiry status of the KSKs. For example: valid, expired, expiring in 30 days, 60 days, and 90 days.



- **KSK Expiry Trend:** This report displays the expiry trend of the key signing keys.



- **KSK Rollover Report:** The following grid displays the rollover and expiry dates for the KSKs along with the DS record that needs to be updated.

KSK Rollover Report ⓘ							
3 Hr(s) ago ↻ ⋮							
1 to 9 of 9 < >							
Q Search...							
Device	Zone	Key Signing Key	Rollover	Expiration	Next Generation Id	DS to Update	
gs-f5-pe310.lab.ap...	test.appvxdidemo...	test.appvxdidemo...	02-12-2024 13:33:...	02-27-2024 13:33:...	27	test.appvxdidemo...	
gs-f5-pe310.lab.ap...	int.appvxdidemo....	int.appvxdidemo....	02-14-2024 06:06:...	02-14-2024 06:11:55	108095	int.appvxdidemo....	

- **Orphan Key Report:** This report displays the key signing keys and zone signing keys that are not associated with any zone. The grid displays the name of the key(s) along with their status.

Orphan Key Report ⓘ			
3 Hr(s) ago ↻ ⋮			
1 to 7 of 7 < >			
Q Search...			
Device	Key Type	Key Name	State
gs-f5-pe309.lab.appviewx.net	KSK	testingkey	Enabled
gs-f5-pe309.lab.appviewx.net	ZSK	testkey	Enabled
gs-f5-pe310.lab.appviewx.net	KSK	test.appvxdidi.com	Enabled
gs-f5-pe310.lab.appviewx.net	KSK	lab.appvxdidemo.com_ksk	Enabled

- **DNSSEC Zone and Key Report:** The DNSSEC zone and key grid displays all the zones with information on their status (enabled/disabled) and the associated Zone Signing Key and Key Signing Key.

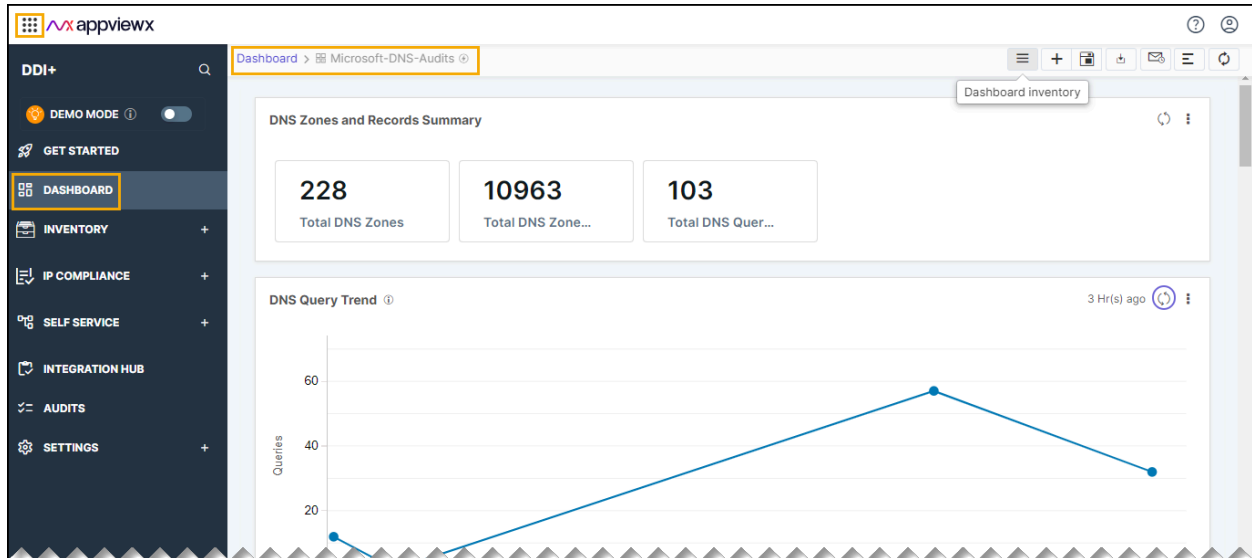
DNSSEC Zone and Key Report ⓘ					
3 Hr(s) ago ↻ ⋮					
1 to 14 of 14 < >					
Q Search...					
Device	Zone	State	Key Signing Key	Zone Signing Key	
gs-f5-pe309.lab.appviewx.net	standby_swat_dnssec_zone_...	Enabled	standby_swat_dnssec_ksk_s...	standby_swat_dnssec_zsk_s...	
gs-f5-pe310.lab.appviewx.net	test.appvxdidemo.com	Enabled	test.appvxdidemo.com_ksk	test.appvxdidemo.com_zsk	
gs-f5-pe310.lab.appviewx.net	appdemo.appvxdidemo.com	Enabled	app.appvxdidemo.com_ksk	app.appvxdidemo.com_zsk	



Note: You can click on the corresponding metric to view the detailed information.

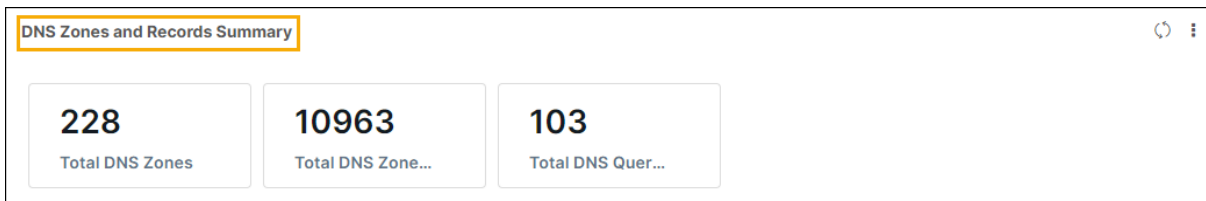
Microsoft DNS Audits

This dashboard displays a comprehensive view of Microsoft DNS landscape, including traffic statistics.

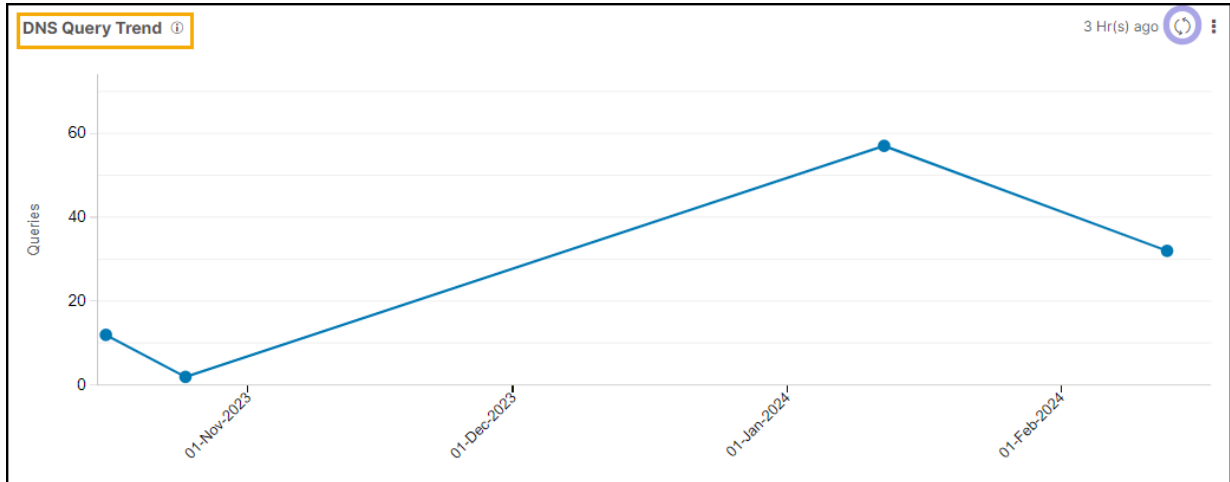


The following reports are available under the **Microsoft DNS_Audits** tab:

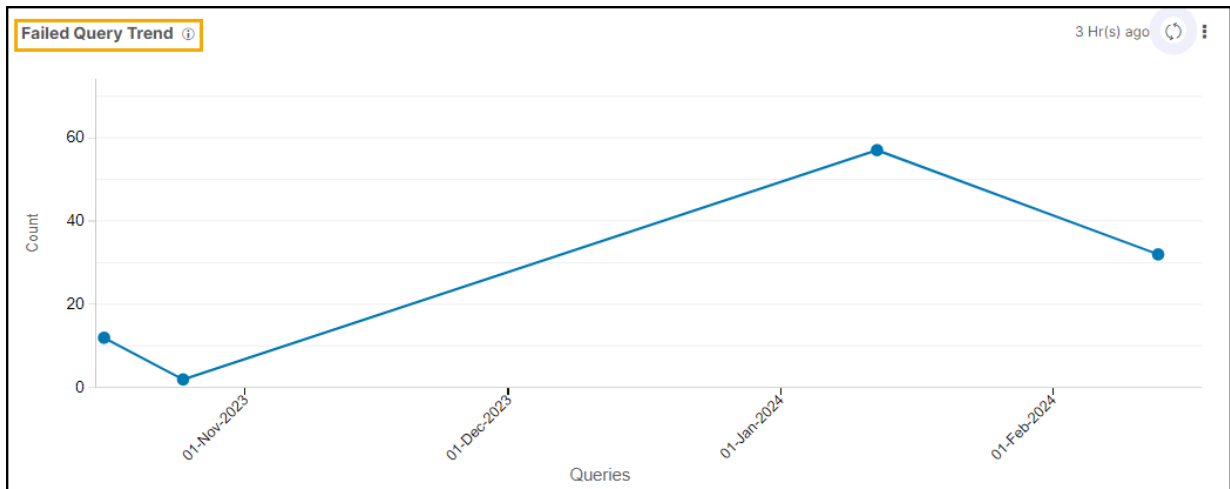
- **DNS Zones and Records Summary:** This metric displays the DNS Zones and Records Summary.
 - **Total DNS Zones:** This metric represent the total number of DNS Zones present across the Microsoft DNS servers managed in DDI+ platform.
 - **Total DNS Records:** This metric represent the total number of DNS records present across the Microsoft DNS servers managed in DDI+ platform.
 - **Total DNS Queries:** This metric represents the total number of DNS queries made on the Microsoft DNS servers managed in DDI+ platform.



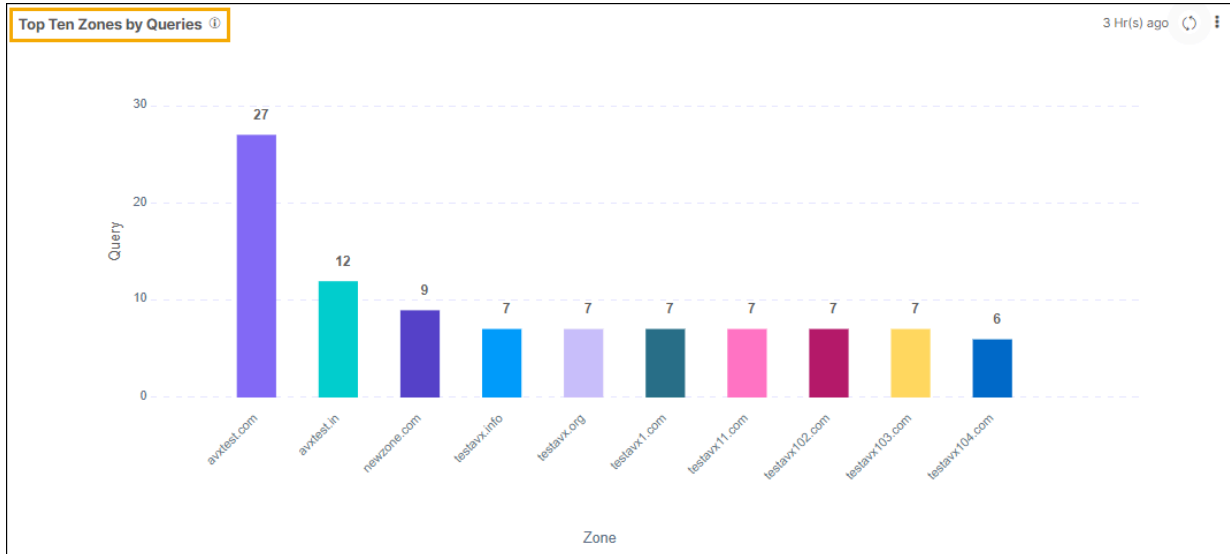
- **DNS Query Trend:** This report represents the daily DNS query trends.



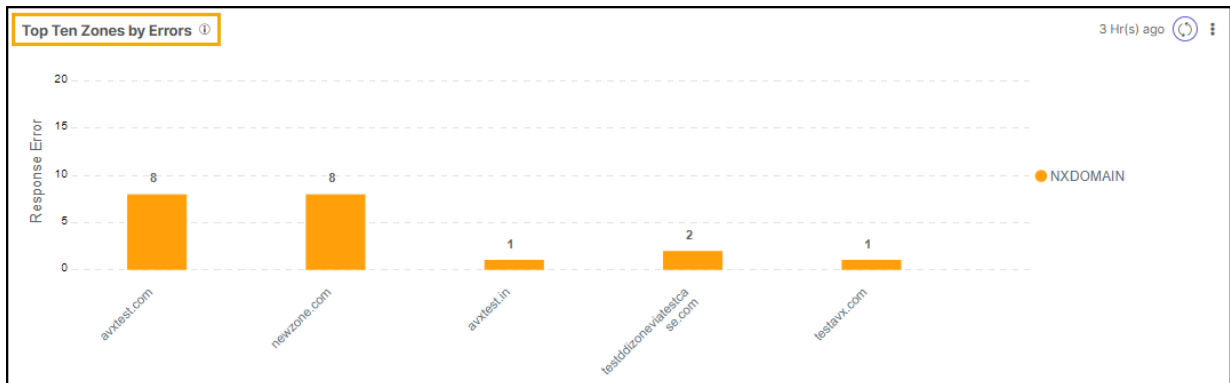
- **Failed Query Trend:** This reports represents the daily DNS failed query trends.



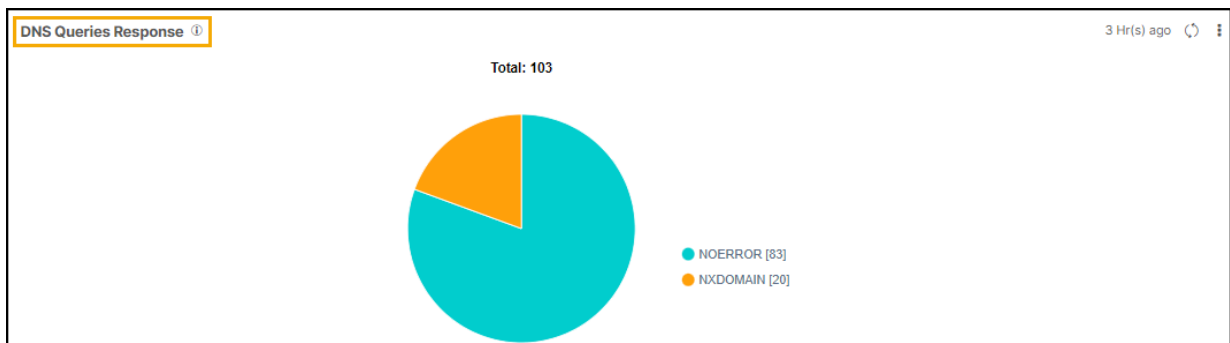
- **Top Ten Zones by Queries:** This bar chart illustrates the DNS Zones with the highest number of queries. The X-axis corresponds to the Zone names, while the Y-axis indicates the number of queries.



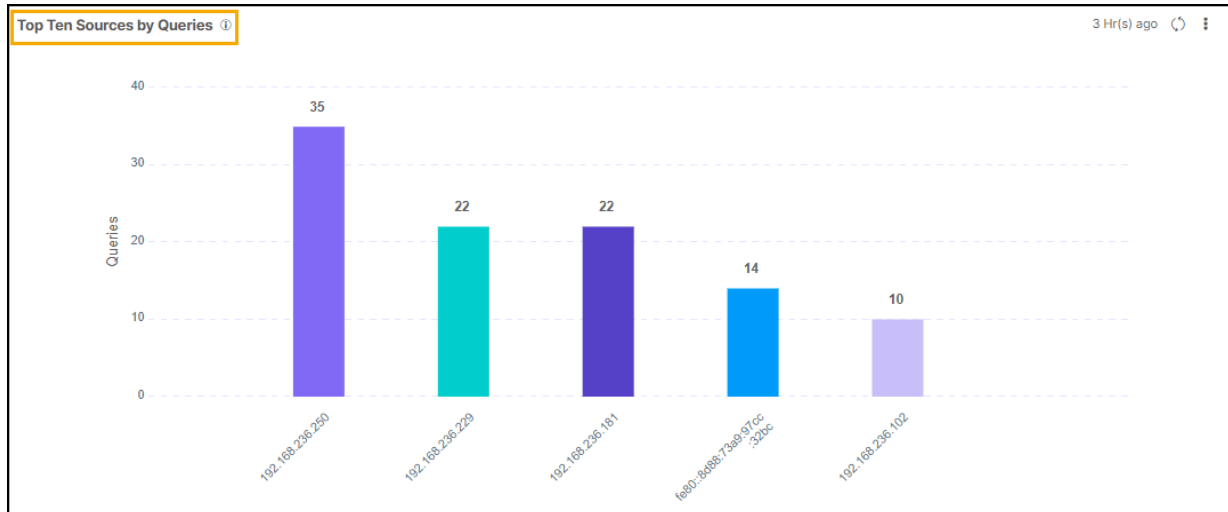
- **Top Ten Zones by Errors:** This bar chart depicts the top 10 DNS Zones with the highest number of query failures. The X-axis represents Zone names, and the Y-axis represents the number of failed queries.



- **DNS Queries Response:** This Pie chart represents total DNS queries response by error code type, such as NXDomain, SERVFAIL, and so on.



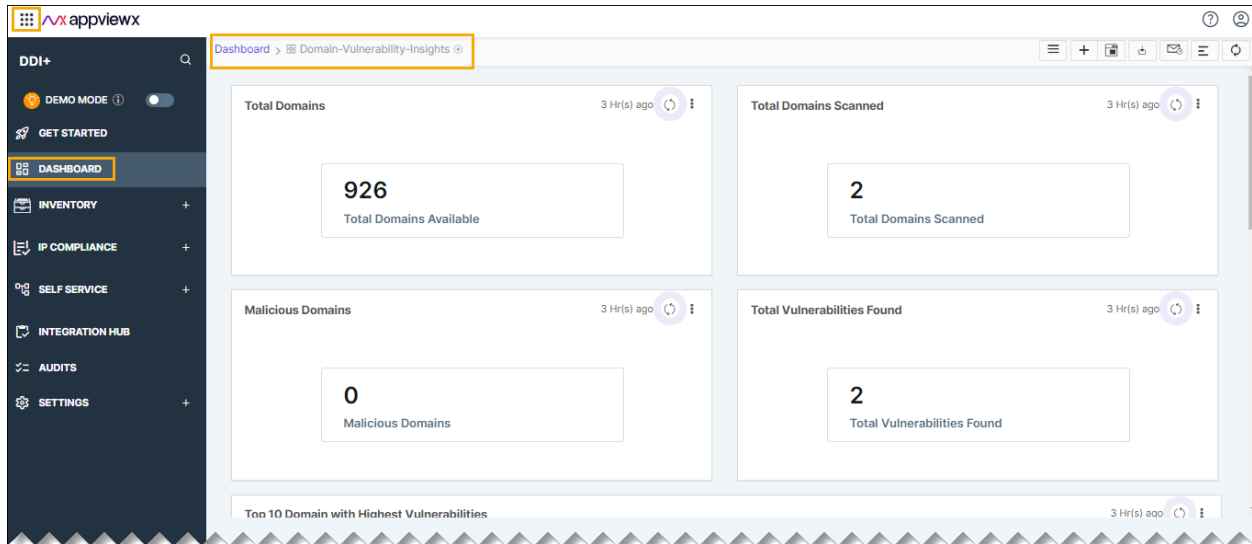
- **Top 10 Sources by Queries:** This bar chart illustrates the sources with the highest number of queries. The X-axis denotes the sources, while the Y-axis represents the corresponding number of queries made.



Note: You can click on the corresponding metric to view the detailed information.

Domain Vulnerability Insights

The Domain Vulnerability Insights Dashboard offers a comprehensive overview of vulnerabilities across domains managed in DDI+ Platform. It provides insights into the total number of domains scanned for vulnerabilities, offering a detailed perspective on vulnerabilities within domains and their associated DNS records. This dashboard serves as a centralized tool for gaining valuable insights into the security posture of the managed domains.



The following reports are available under the **Domain Vulnerability Insights** tab:

- **Total Domains:** Total Domain Scanned provides the metrics of the total number of domains that are scanned from the domains.
- **Total Domains Scanned:** This metric displays the total number of domains scanned for the vulnerabilities.
- **Malicious Domains:** Provides a list of subdomains with CNAMEs redirecting to questionable websites. It specifically identifies instances where the content of the application in the CNAME includes malicious keywords.
- **Total Vulnerabilities Found:** This metric displays the total number of vulnerabilities found in the inventory.
- **Top 10 Domain with Highest Vulnerabilities:** This metric displays the top 10 domain with highest vulnerabilities in the inventory.
- **Domain Vulnerability by Types:** This bar chart illustrates vulnerabilities within domains and subdomains, categorized by various vulnerability scan types.

The following vulnerability scans type:

- **HTTPS/HTTP Scan:** This scan checks if the HTTP/HTTPS status is down for domains and associated subdomains.
- **CNAME scan:** This vulnerability scan assesses vulnerabilities in CNAMEs associated with the domain. The scan includes checks for HTTP/HTTPS status, potential malicious content, and examines CNAMEs for standard response fingerprints susceptible to hijacking.
- **MX Record Scan:** This scan involves checking domains for the presence of MXrecords. If the domains have MX records, the scan verifies whether the servers mentioned in the MX records are unreachable. If any servers are found to be unreachable, they are highlighted as vulnerable.

- **SPF Record Scan:** The SPF Record Scan involves multiple checks:
 - **Syntax Check:** The scan performs a syntax check on the SPF records.
 - **Reachability Check:** Verifies that all hosts mentioned in the SPF records are reachable.
 - **Invalid Directive:** Checks for invalid directives, such as instances where a domain is specified, but the MX record or the A record specified for that domain is invalid.
 - **Obsolete Include Directive:** Identifies and flags obsolete include directives, particularly when an invalid SPF for the domain specified in the existing record is detected.
- **DMARC Scan:** The scan verifies if the DMARC policy for the domain is set to "none." which potentially is a security concern.
- **NS Scan:** This involves verifying the reachability of the Name Servers (NS) associated with the domain through a ping test. The scan assesses the responsiveness of the NS servers, identifying any instances where they may be unreachable.
- **SOA Record Scan:** This scan aims to ensure that the SOA record adheres to specific criteria for optimal DNS configuration. Following are the criteria.
 - Ensures that the primary Name Server (NS) record specified in the SOA record is reachable.
 - Verifies that the refresh interval in the SOA record is set to a value greater than 3600 seconds.
 - Checks that the retry interval in the SOA record is set to a value greater than 900 seconds.
 - Ensures that the expiration time in the SOA record is set to a value greater than 604800 seconds.
 - Verifies that the Time-to-Live (TTL) value in the SOA record is set to a value greater than 300 seconds.



Note: You can click on the corresponding metric to view the detailed information.

Downloading and Exporting the Dashboard Reports

To download/export the respective metrics, perform the following steps:

1. Go to **DDI+ > Dashboard**, and then click on the desired metrics.
The metrics is displayed with detailed information.

Total DNS Zone Summary

Select download

1 to 100 of 442

Search... Zone Name

Zone Name	Zone Type	Status	Vendor
180.12.1.0/24	NA	NA	Infoblox
30.0.0.0/24	NA	NA	Infoblox
TrustAnchors	Primary	Active	Microsoft
appss30.info	PRIMARY	ACTIVE	UltraDNS
appview.info	Primary	HELD_SHOPPER	GoDaddy
appviewx.ae	PRIMARY	ACTIVE	UltraDNS
appviewx.africa	PRIMARY	ACTIVE	UltraDNS

2. Click the  **Kebab** menu, and then click the **Select download** dropdown menu to download or export the file.

The available options are:

- Download as PDF
- Export as Excel
- Export as CSV.

Inventory

The DDI+ inventory comprises a comprehensive list of System of Records, encompassing Domains, DNS Zones, Subnets, and IP addresses. It provides visibility into the correlations among DNS objects, establishing itself as the single source of truth for the DNS ecosystem.

Domain Name	Vendor	Expiry Date	Status
testappvsss.info	GoDaddy		Failed_setup
testappvsss.info	GoDaddy		Failed_setup
appviewx.info	GoDaddy		Failed_setup
appviewx1.info	GoDaddy		Failed_setup
appviewx2.info	GoDaddy	2023-10-06 03:43:15	Cancelled
testapp.info	GoDaddy	2023-10-06 10:49:21	Cancelled
testapp1.info	GoDaddy	2023-10-06 10:56:25	Cancelled
testapp2.info	GoDaddy	2024-10-06 13:03:16	Active
testapp5.info	GoDaddy	2023-10-07 03:04:16	Cancelled
testapp6.info	GoDaddy	2023-10-07 03:09:17	Cancelled
appvsss.com	GoDaddy	2023-10-07 11:45:42	Cancelled

- Domains Inventory
- Zones Inventory
- Subnet Inventory
- IP Address Inventory
- Load Balancer IP Inventory

Domains Inventory

In the Domain Inventory section, users can access comprehensive details about all domains managed within the DDI platform. This includes vital information like domain names, configurations, and associated attributes, providing a detailed and organized overview of the entire domain portfolio. Additionally, this section offers the provision to view associated DNS Zones and records, even if managed by third-party DNS providers, offering a centralized view of domain ecosystem.



Note: Third-party DNS providers needs to be managed in DDI+ platform to view the DNS records and Zones.

1. Go to **DDI+ > Visibility**, and then click **Domain**.

An inventory of all the domains is displayed with information about the vendor, status, expiry date, and so on.

Domain Name	Vendor	Expiry Date	Status
akamaiddidemotest302.net	GoDaddy	2025-10-18 00:16:17	Active
akamaiddidemotest303.com	GoDaddy	2026-10-18 05:16:23	Active
akamaiddidemotest347.net	GoDaddy	2024-10-18 00:19:40	Active
appss30.info	GoDaddy	2025-01-11 12:37:36	Active
appviewxdomainmanagertest.org	GoDaddy	2024-11-27 08:09:48	Active

2. Click on the domain name in the inventory to view the associated zone.

Zone Name	Domain Name	Vendor	Zone Type	Name Server
avxavxcpy10.info	avxavxcpy10.info	GoDaddy	Primary	ns01.ote.domaincontrol.com,ns02.ote...

3. Click the Zone names to view the corresponding DNS records.

Name	Record Type	Record Data	TTL	Vendor
avxdns.click	NS	ns-270.awsdns-33.com,ns-1531.awsdns-63.org,...	172800	Route53
avxdns.click	SOA	ns-270.awsdns-33.com. awsdns-hostmaster.ama...	900	Route53

Updating the Extensible Attributes for Domains

Extensible attributes are additional attributes that organizations may need to record as part of their domains. In the domain inventory, users can select a domain and update these extensible attributes.

1. Select the domain name from the list.
2. Click the actions table.
3. Choose **Update Attributes** from the options.

A pop-up will appear with the attribute name and a field to enter the value. Click to [here](#) to configure the extensible attribute fields.

4. Enter the desired value, and then click **Save**.

The attribute will be appended to the domain information in AppViewX.

Zones Inventory

The zone inventory provides a comprehensive view of all zones and their associated DNS records distributed across a multi vendor DNS ecosystem.

1. Go to **DDI+ > Inventory**, and then click **Zone**.

An inventory of all the zones managed across different DNS Vendors managed in DDI+ platform is displayed with information about the vendor, type of zone, and status.

Total Zones 397			
Search			
Name	Vendor	Type	Status
akamaiddidemotest301.net	GoDaddy	Primary	Active
akamaiddidemotest306.org	Akamai	Primary	Active
akamaiddidemotest309.info	Akamai	Primary	Active
akamaiddidemotest338.org	Akamai	Primary	Active
akamaiddidemotest376.info	GoDaddy	Primary	Held shopper

2. For more information about a particular zone, click on the zone name from the list.

You can view the corresponding DNS records.

Subnet Inventory


The subnet inventory provides a comprehensive overview of all subnets present in the IPAM vendors . This includes detailed information on subnet configurations, associated attributes, and relevant network details.

appviewx						
Network						
Search...						
Network	Utilization	Network View	Vendor	Total Hosts	DHCP Utilization Status	
<input type="checkbox"/> 192.144.24.0/29		default	Infoblox		LOW	
<input type="checkbox"/> 192.194.244.0/31		default	Infoblox		LOW	
<input type="checkbox"/> 192.105.56.0/28		default	Infoblox		LOW	
<input type="checkbox"/> 192.162.114.0/27		default	Infoblox		LOW	
<input type="checkbox"/> 192.159.26.0/32		default	Infoblox		LOW	
<input type="checkbox"/> 192.195.58.0/32		default	Infoblox		LOW	
<input type="checkbox"/> 192.155.136.0/31		default	Infoblox		LOW	
<input type="checkbox"/> 192.146.251.0/32		default	Infoblox		LOW	

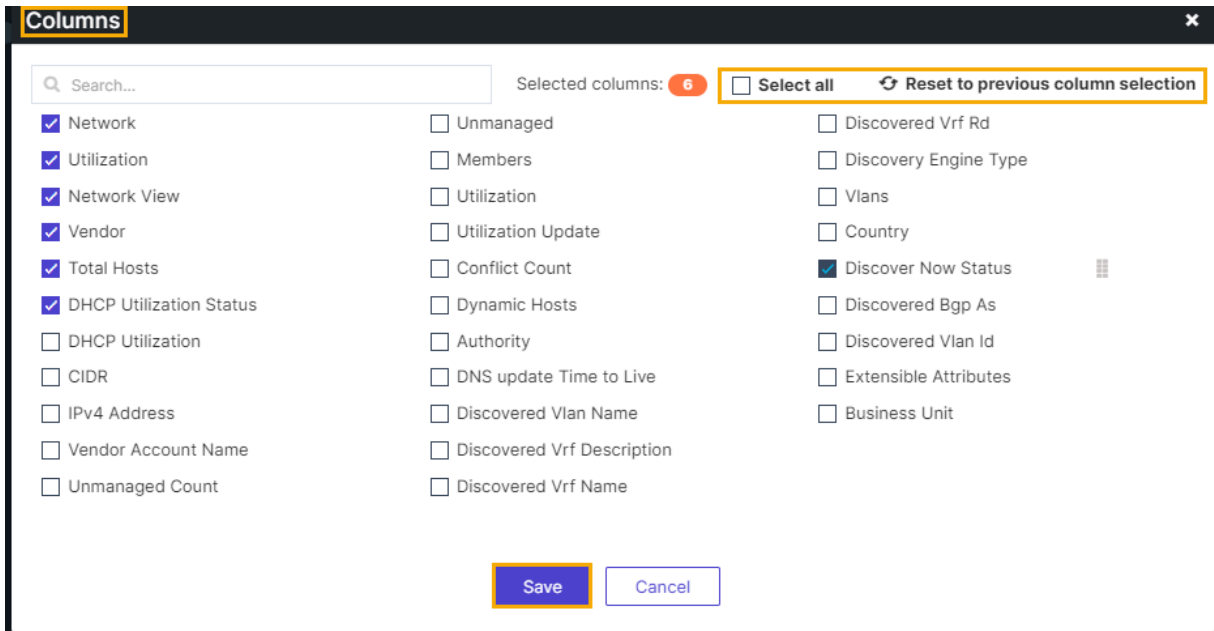
IP - Subnet Inventory

1. Go to **DDI+ > Inventory**, and then click **Subnet**.

The IP address inventory page of the clicked subnet appears.

2. Click the  (**Columns**) icon to display to required columns on the subnet dashboard.

The columns inventory page appears.



Columns

Search...

Selected columns: 6

Select all

<input checked="" type="checkbox"/> Network	<input type="checkbox"/> Unmanaged	<input type="checkbox"/> Discovered Vrf Rd
<input checked="" type="checkbox"/> Utilization	<input type="checkbox"/> Members	<input type="checkbox"/> Discovery Engine Type
<input checked="" type="checkbox"/> Network View	<input type="checkbox"/> Utilization	<input type="checkbox"/> Vlans
<input checked="" type="checkbox"/> Vendor	<input type="checkbox"/> Utilization Update	<input type="checkbox"/> Country
<input checked="" type="checkbox"/> Total Hosts	<input type="checkbox"/> Conflict Count	<input checked="" type="checkbox"/> Discover Now Status
<input checked="" type="checkbox"/> DHCP Utilization Status	<input type="checkbox"/> Dynamic Hosts	<input type="checkbox"/> Discovered Bgp As
<input type="checkbox"/> DHCP Utilization	<input type="checkbox"/> Authority	<input type="checkbox"/> Discovered Vlan Id
<input type="checkbox"/> CIDR	<input type="checkbox"/> DNS update Time to Live	<input type="checkbox"/> Extensible Attributes
<input type="checkbox"/> IPv4 Address	<input type="checkbox"/> Discovered Vlan Name	<input type="checkbox"/> Business Unit
<input type="checkbox"/> Vendor Account Name	<input type="checkbox"/> Discovered Vrf Description	
<input type="checkbox"/> Unmanaged Count	<input type="checkbox"/> Discovered Vrf Name	



Note: You can use the search bar, and filter the search results by selecting the options from the dropdown.

- a. Select the checkbox that to be displayed on the subnet inventory page.
- b. Click **Save**.

IP Address Inventory

The IP address inventory offers a thorough overview of all IP addresses within the network infrastructure. Users can access detailed information on IP configurations, associated attributes, and relevant network details across the IPAM, CMDB and Load Balancers. The IP Address Inventory provides a centralized view, enabling effective management and understanding of the entire IP address landscape across the network infrastructure.

IP Address	Network	Names	Usage	ADC Details	Vendor	Status
1.0.0.10	1.0.0.10/32	test.avddi.com,av...	DHCP,DNS	Not Available	Infoblox	Used
1.0.0.11	1.0.0.11/32		DHCP	Not Available	Infoblox	Used
1.0.0.12	1.0.0.12/32		DHCP	Not Available	Infoblox	Used
1.0.0.13	1.0.0.13/32		DHCP	Not Available	Infoblox	Used
1.0.1.0	1.0.1.0/27			Not Available	Infoblox	Used
1.0.1.1	1.0.1.0/27			Not Available	Infoblox	Unused
1.0.1.10	1.0.1.0/27			Not Available	Infoblox	Unused

1. Go to **DDI+ > Inventory**, and then click **IP Address**.


The **IP Address** inventory page appears.



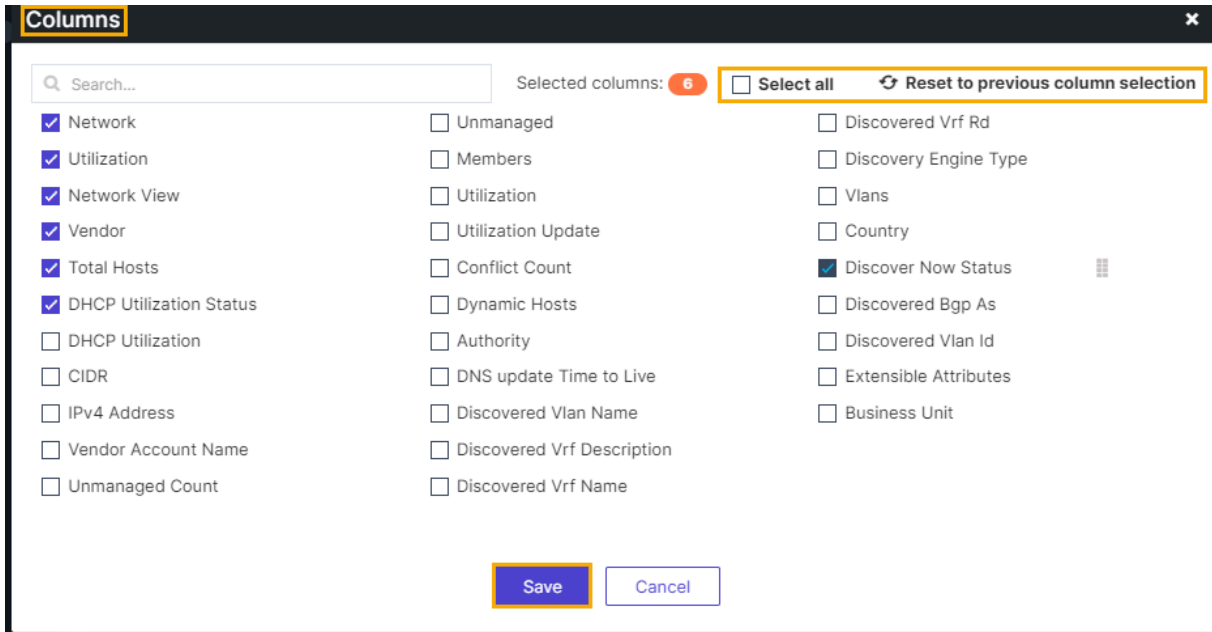
Note: This inventory includes a column labeled **ADC Details**, indicating that the ADC details are available for each IP. This column comprises two values:

- **Available**
- **Not Available**

If the **Available** is indicated, you can click on the hyperlink associated with the **Available** text to access and view the corresponding ADC details linked to the respective IP address.

2. Click the  (**Columns**) icon to display to required columns on the subnet dashboard.

The columns inventory page appears.

**Note:**

- You can use the search bar, and filter the search results by selecting the options from the dropdown.
- Column to be selected may contain the fields from the CMDB configured in DDI+ platform.

- Click the checkbox that to be displayed on the subnet inventory page.
- Click **Save**.


Load Balancer IP Inventory

The load balancer IP inventory presents a comprehensive view of all IP addresses associated with enterprise load balancers network infrastructure. It includes detailed information on configurations, attributes, and relevant load balancing details such as object types and associated objects such VIP to pool member association, IPAM status, and so on.

ADC IP Address	Device Name	Port	Pool	Record Type	IPAM Status	Object Type
192.168.128.0	gs-qa-f5-n2.lab.appviewx.net	80	PoolIde...	NO Records	Unused	Pool Member
192.168.128.0	gs-qa-f5-n1.lab.appviewx.net	80	Correlat...	NO Records	Unused	Pool Member
7.6.7.6	gs-qa-f5-n1.lab.appviewx.net	80	testpool...	HOST_IPV4ADDR	No Records	VIP
192.168.0.1	gs-qa-f5-n2.lab.appviewx.net	80	PoolIde...	HOST_IPV4ADDR,A	Used	VIP
192.168.0.1	gs-qa-f5-n1.lab.appviewx.net	80	Correlat...	HOST_IPV4ADDR,A	Used	VIP
192.168.0.1	gs-qa-f5-n1.lab.appviewx.net	90		HOST_IPV4ADDR,A	Used	VIP

1. Go to **DDI+ > Inventory**, and then click **Load Balancer IP**.

The Load Balancer IP page appears.

2. Click the  (**Columns**) icon to display to required columns on the subnet dashboard.

The columns inventory page appears.

Columns

Search...

Selected columns: 6

Select all

- Network
- Utilization
- Network View
- Vendor
- Total Hosts
- DHCP Utilization Status
- DHCP Utilization
- CIDR
- IPv4 Address
- Vendor Account Name
- Unmanaged Count
- Unmanaged
- Members
- Utilization
- Utilization Update
- Conflict Count
- Dynamic Hosts
- Authority
- DNS update Time to Live
- Discovered Vlan Name
- Discovered Vrf Description
- Discovered Vrf Name
- Discovered Vrf Rd
- Discovery Engine Type
- Vlans
- Country
- Discover Now Status
- Discovered Bgp As
- Discovered Vlan Id
- Extensible Attributes
- Business Unit



Note: You can use the search bar, and filter the search results by selecting the options from the dropdown.

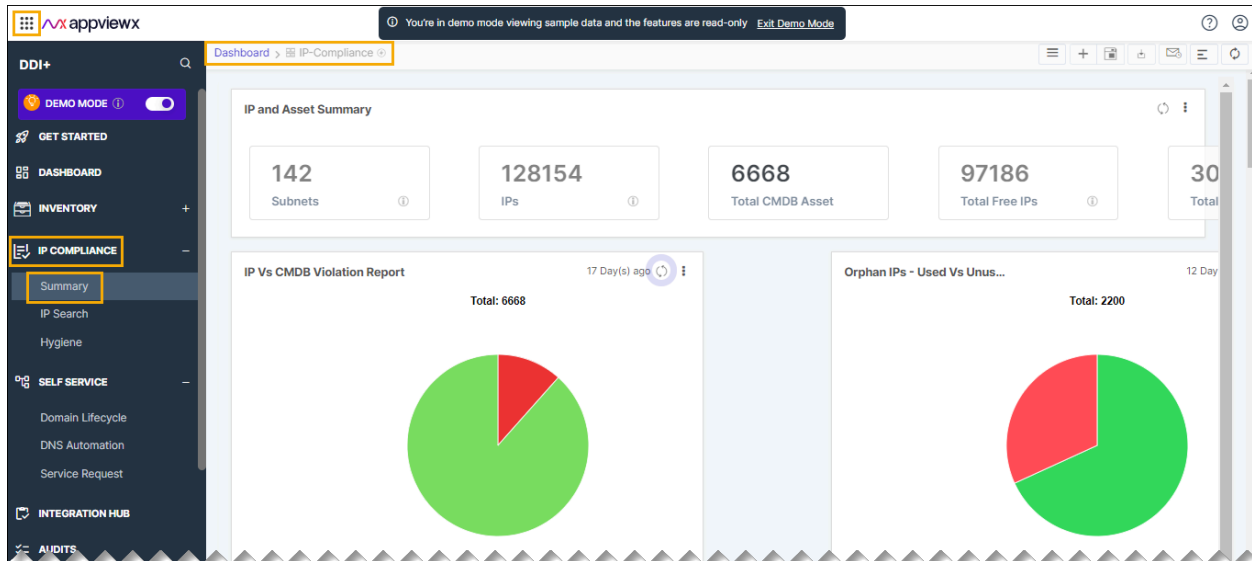
- a. Click the checkbox that to be displayed on the subnet inventory page.
- b. Click **Save**.

IP Compliance

DDI+ empowers enterprises to gain comprehensive insights into the compliance of IP addresses distributed across IPAM, CMDB, and Load Balancers. By seamlessly integrating with IPAM and CMDB, it facilitates the correlation of IP addresses with CMDB assets, enabling the identification of ownership and detection of any discrepancies in IPAM and CMDB data. The solution ensures synchronization between CMDB and IPAM, highlighting IPs lacking ownership information and providing visibility into potential violations between load balancer, IPAM, and ADC IP addresses. Additionally it provides app-centric correlation across IPAM, CMDB, Load Balancers and Firewalls.

IP Compliance Features:

- **IP Compliance Dashboard**
 - Provides end-to-end visibility into the IP estate and identifies any violations across IPAM, CMDB, and Load Balancers.
 - Comprehensive overview of IP compliance status.
- **IP Search**
 - Enables users to search for IP addresses or FQDNs, providing application-centric visibility across IPAM, CMDB, Load Balancers, and firewalls.
 - Quick and targeted access to IP-related information.
- **IP Hygiene**
 - Ensures compliance across CMDB and IPAM by allowing users to update information through a self-service form, streamlining the process.
 - Efficient maintenance of accurate and compliant IP information.



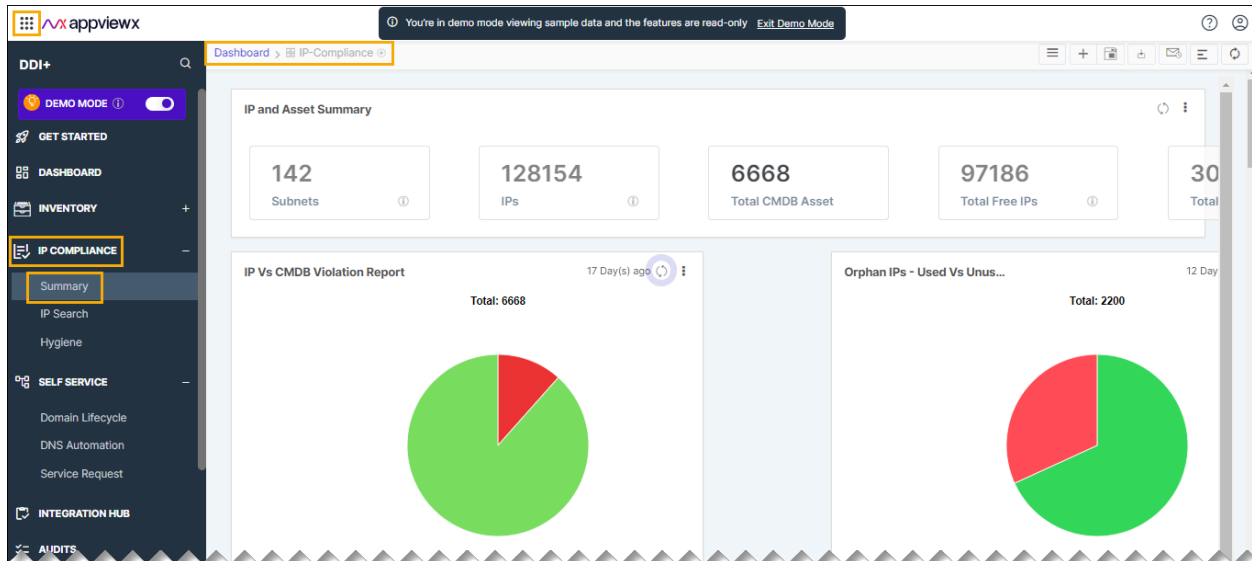
Configuring IP Compliance

To configure compliance reports and build the compliance dashboard, the following steps need to be performed:

- **Integrate CMDB:** Configure the DDI+ platform with the tables in [CMDB](#) from which CMDB IP asset information needs to be synced.
- **Integrate IPAM:** Onboard the IPAM vendor and select the pre-configured CMDB settings in AppViewX.
- **Integrate ADC:** Onboard ADC vendors in AppViewX to obtain ADC IP correlation and identify compliance violations.
- **Integrate Firewall:** Onboard Firewall vendors in AppViewX to obtain firewall NAT IP correlation. Identify Public to Private translation and view translate IP meta data and correlation.
- [Summary](#)
- [IP Search](#)
- [Hygiene](#)

Summary

The IP compliance summary dashboard provides an overview of IP address landscape and compliance status with CMDB and Load balancing configuration.



The following reports are available under the **IPCompliance** tab:

- **IP and Asset Summary:**

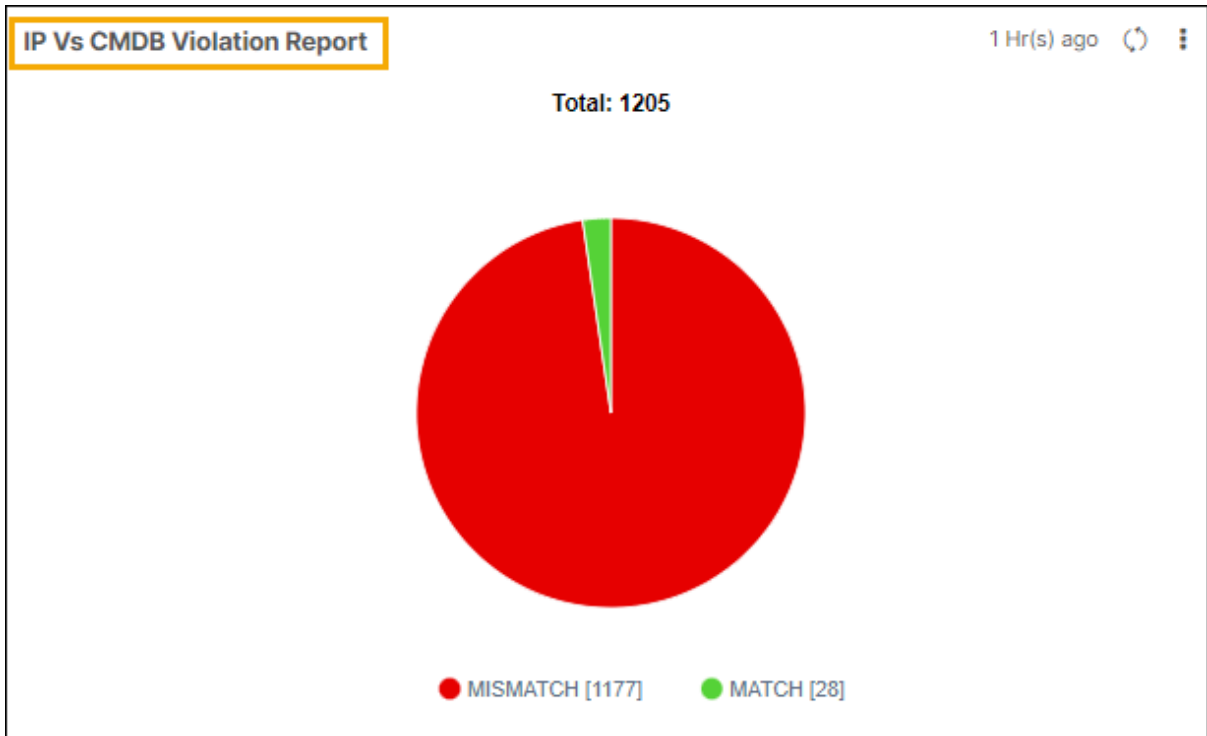
The IP and Asset Summary provides a comprehensive overview of IP address details, encompassing information on the number of subnets, total IP addresses, and the allocation status (free and used) sourced from IP Address Management (IPAM). It also includes the total count of IP assets synchronized from the Configuration Management Database (CMDB).



- **IP vs CMDB Violation Report:** The IP vs CMDB Violation Reports provide insights into the match and mismatch of IP addresses between IP Address Management (IPAM) and the Configuration Management Database (CMDB).

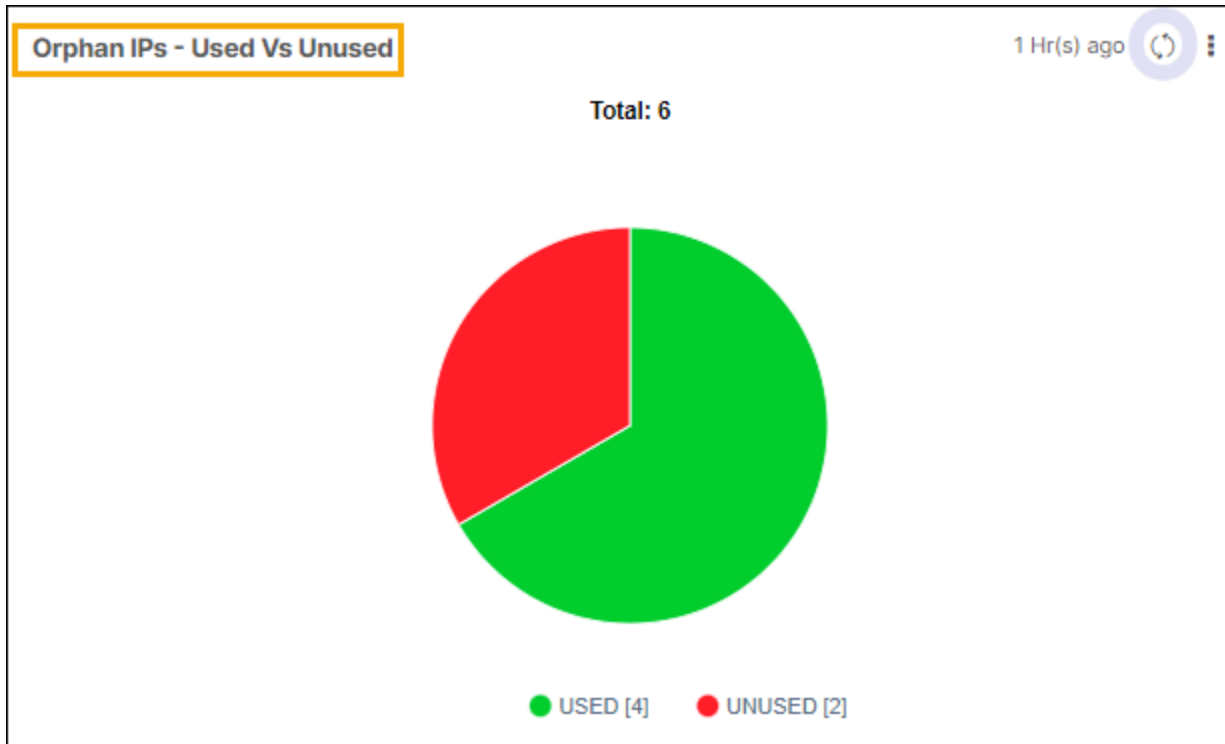
Report is a pie chart with two sections match and mismatch:

- Match - IP addresses used in IPAM with corresponding CMDB entries.
- Mismatch - Mismatch has following two conditions:
 - Mismatch Condition 1: IP addresses are used in IPAM but no CMDB entries.
 - Mismatch Condition 2: IP addresses not used in IPAM with entries in CMDB

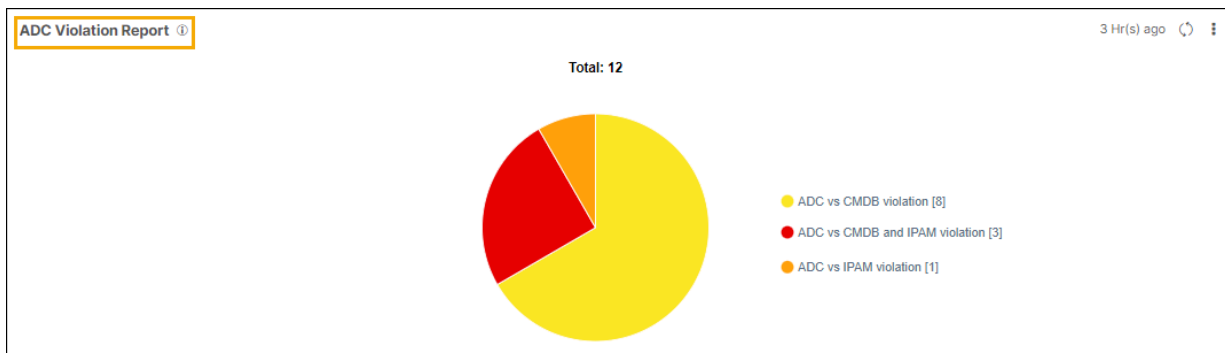


Click on each section of the pie chart to view the details of the IP address and reason for match and mismatch.

- **Orphan IPs - Used Vs Unused:** This report gives users a breakdown of used and unused orphan IPs in IPAM.



- **ADC Violation Report:** This report shows discrepancies in ADC IP addresses within IPAM and the CMDB. The pie chart consists of three sections:
 - ADC vs CMDB vs IPAM Violation: Depicts IP addresses lacking both IPAM reservations and CMDB entries.
 - ADC vs IPAM Violation: Illustrates ADC IP addresses without IPAM entries but with corresponding CMDB entries.
 - ADC vs CMDB Violation: Highlights ADC IP addresses without CMDB entries but with IPAM reservations.



- **Orphan IPs:**

Orphan IPs are those with entries in the CMDB but may lack essential details such as ownership information or business units.

The definition of orphan IPs can vary between enterprises, allowing customization through AppViewX CMDB configuration. Users can establish custom policies to choose certain IPs as orphan based on configured fields in the CMDB.

Orphan IPs ⓘ 0 Min(s) ago ↻ ⋮

1 to 6 of 6 < >

Q Search... IP Address ▾

IP Address	Names	Network	Status	Types	CMDB Status
10.10.100.130		10.10.100.0/24	UNUSED		MISMATCH
10.10.100.2	testcor2.testavx.info	10.10.100.0/24	USED	HOST	MATCH
10.10.100.3	testcor5.testavx.info	10.10.100.0/24	UNUSED	HOST	MATCH

- **Top 10 Orphan Subnets:** This grid report displays the top 10 subnets with the highest number of orphan IPs.

Top 10 Orphan Subnets ⓘ 3 Hr(s) ago ↻ ⋮

1 to 3 of 3 < >

Q Search...

Subnet	Orphan IPs
10.10.100.0/24	4
192.15.1.0/24	1
192.168.32.0/24	1

Maximum 1000 records shown. (*Date format - DD-MM-YYYY)

- **Top 10 IP Subnets by Utilization:** This grid report displays the top 10 subnets with the highest utilization.

Top 10 Subnets by Utilization ⓘ 3 Hr(s) ago ↻ ⋮

1 to 10 of 10 < >

Q Search...

Subnet	% IP Space Used	IPs Used	IPs Available
10.10.100.0/24	100	1	0
10.10.100.0/24	100	1	0
10.10.100.0/24	100	1	0
10.0.43/32	100	1	0

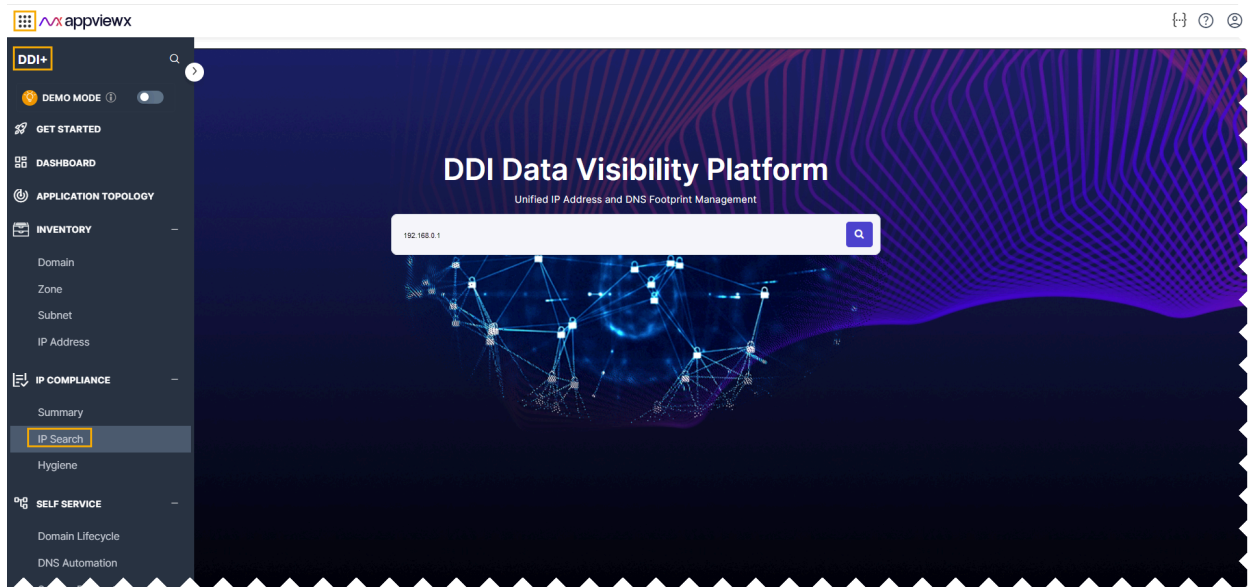
- **Lowest 10 IP Subnets by Utilization:** This grid report presents the ten subnets with the lowest utilization.

The screenshot shows a report titled "Lowest 10 Subnets by Utilization" with a search bar and a table of results. The table has columns for Subnet, % IP Space Used, IPs Used, and IPs Available. The data is as follows:

Subnet	% IP Space Used	IPs Used	IPs Available
10.1.1.0/24	0	2	254
180.1.1.0/24	0	2	14
180.1.2.0/24	0	0	1
182.1.1.0/24	0	2	254
182.1.2.0/24	0	2	254

IP Search

The IP Search page allows users to search for an IP address or FQDN, providing Appcentric visibility and correlation across IPAM, Load balancers, and Firewalls. Users have the flexibility to search for both private and public IP addresses or FQDNs.

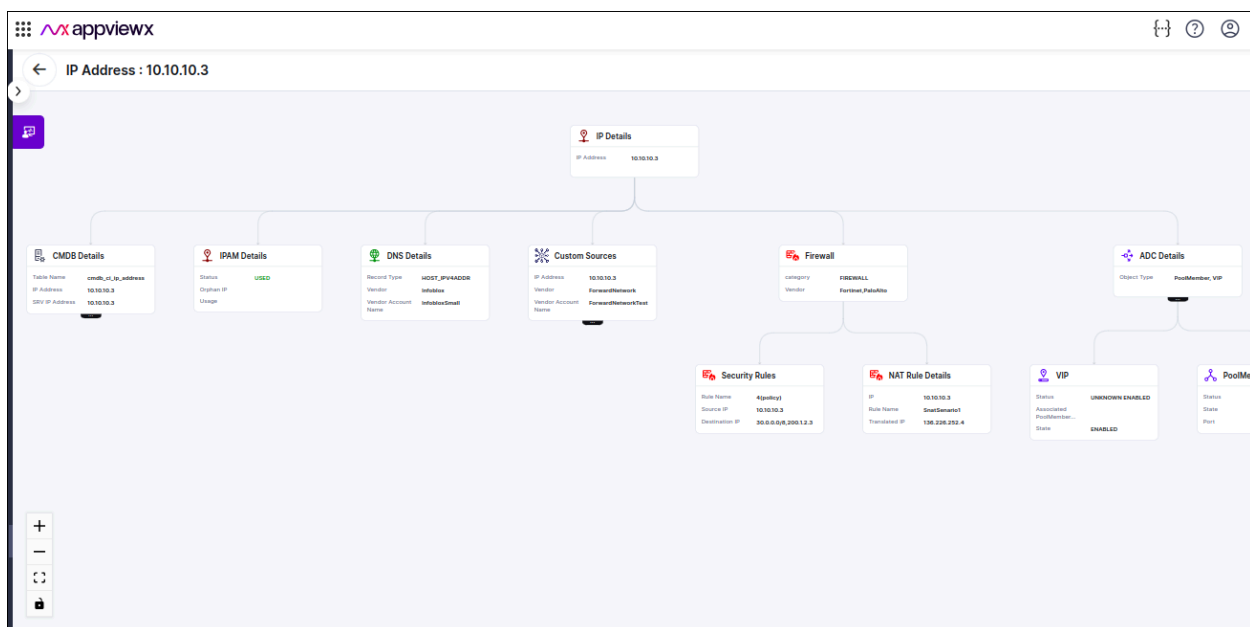


When a public IP is searched, the system presents a grid displaying any Network Address Translation (NAT) rules associated with the translation to a private IP. Users can explore these NATTED rules and view correlations with private IP addresses in a hierarchical format. In the case of a private IP search, users will be directly presented with the hierarchical view.

Translated IP Address

Vendor	Device(s)	IP	RuleName	Translated IP
PaloAlto	gs-pa-pe40.lab.appviewx.net(192...	10.1	SnatSenario1	136.2

Once the IP users clicks the search icon or view button incase of NAT IP, a correlation of all IP addresses will be shown in a hierarchical view as below.



In the hierarchical view, users can:

- Search asynchronously across multiple data endpoints or sources.
- View a summary of the sources.
- If a source contains multiple IP addresses, click the view more Rules option associated with the node to view the detailed tables for each source.

IP Address : 10.10.10.3

CMDB Details

Table Name: cldb_ci_ip_address
IP Address: 10.10.10.3
SRV IP Address: 10.10.10.3

DNS Details

Record Type: HOST_IPV4ADDR
Vendor: Infoblox
Vendor Account Name: InfobloxSmall

Vendor	Vendor Account Na...	IP Address	SRV IP Address	Table Name
CMDB	cldb_ip_search	10.10.10.3	10.10.10.3	cldb_ci_ip_address
CMDB	cldb_ip_search	10.10.10.3	10.10.10.3	cldb_ci_ip_address
CMDB	cldb_ip_search	10.10.10.3	10.10.10.3	cldb_ci_ip_address
CMDB	cldb_ip_search	10.10.10.3	10.10.10.3	cldb_ci_ip_address
CMDB	cldb_ip_search	10.10.10.3	10.10.10.3	cldb_ci_ip_address
CMDB	cldb_ip_search	10.10.10.3	10.10.10.3	cldb_ci_ip_address
CMDB	cldb_ip_search	10.10.10.3	10.10.10.3	cldb_ci_ip_address
CMDB	cldb_ip_search	10.10.10.3	10.10.10.3	cldb_ci_ip_address
CMDB	cldb_ip_search	10.10.10.3	10.10.10.3	cldb_ci_ip_address
CMDB	cldb_ip_search	10.10.10.3	10.10.10.3	cldb_ci_ip_address

Users can click on each node to view the corresponding details such as IPAM, DNS, CMDB, Load balancer, Firewall details. Users have the ability to manage the data displayed in each node through the IP Search settings, accessible under the settings page.

IP Details

IP Details node represents the IP address details retrieved from IPAM, encompassing associated information such as subnets, status, device name, etc. Click on the node to view more details.

IP Details

IP Address: 10.10.10.3

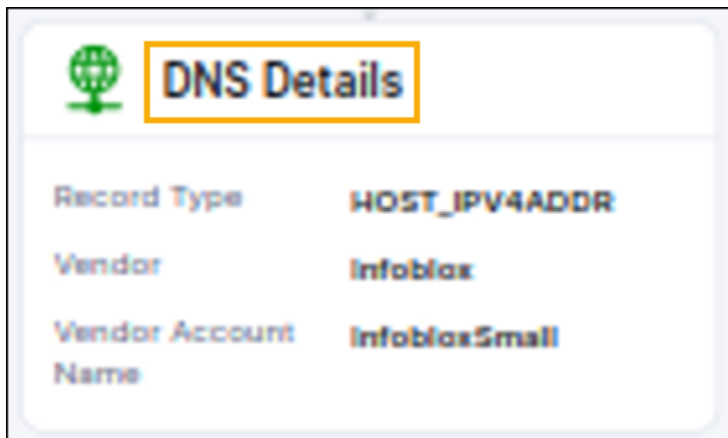
IP Address

This node represents the IP address searched.



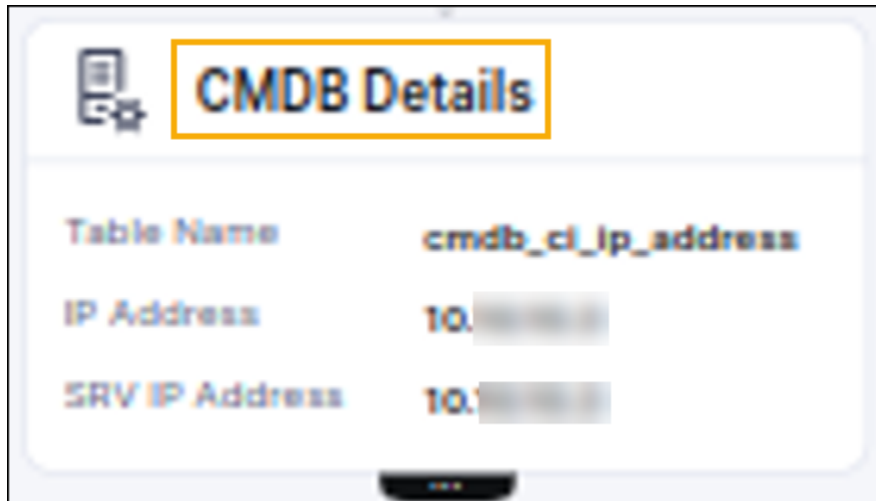
DNS Details

The DNS Details node represents associated DNS record details for the respective IP address. Users can click on the node to access additional details.



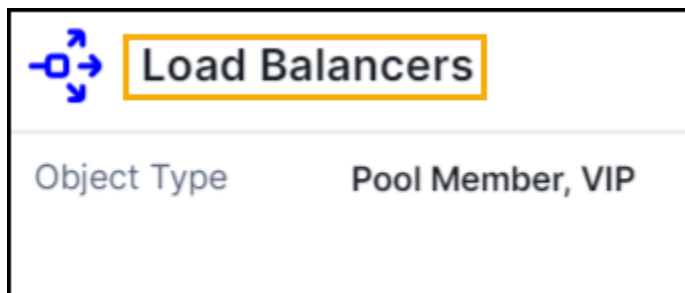
CMDB Assets

CMDB details represent all the IP asset information retrieved from the CMDB. Click on the node to view more information.



Load balancers

This node denotes the type of Load Balancer objects linked to the searched IP address. For instance, if the searched IP address functions as both a Pool member and VIP object, the "Object Type" will display as "Pool Member, VIP." The child of this node contains additional details specific to either the VIP or Pool member.



VIP Node

This node signifies details about the VIP associated with the IP, providing additional information specific to the respective VIP upon clicking. Additionally, this node may have one child representing all the Pool members associated with the VIP.

 	
Device Name	gs-qa-f5-n1.lab.a...
IP Address	192 [blurred]
Port	443

Firewall Details

This node represents the if there is any Firewall NAT rule association with the searched IP address. The child node represents the details of the Firewall NAT rules as shown below.

1. Go to **DDI+ > IP Compliance**, and then click **IP Search**.

The IP Search page appears.

2. Select the **IP Address** or **Domain/FQDN** from the dropdown that you want to search.
3. Enter the value <IP Address or Domain name> in the field.
4. Click **Search**.

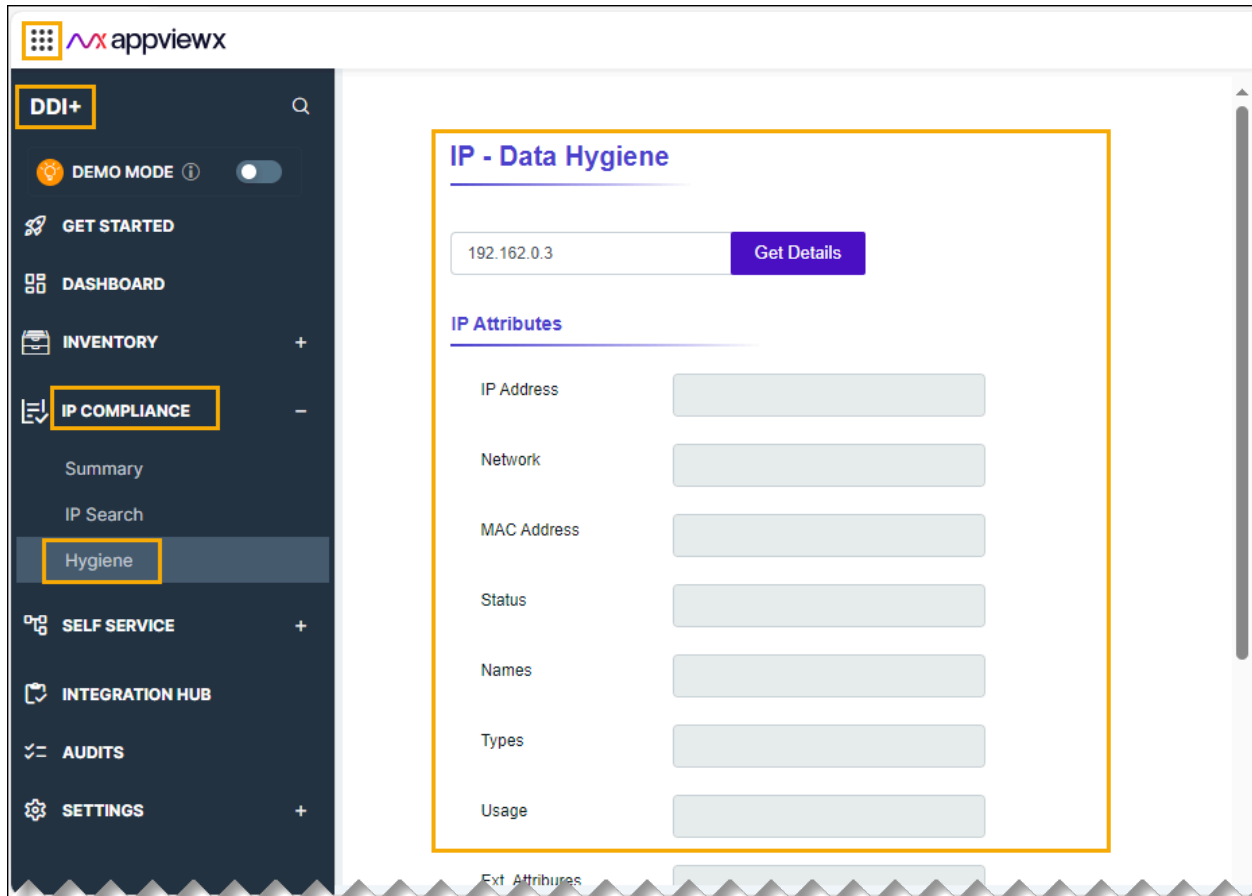
The search result appears on the page.

Hygiene

IP Compliance Data Hygiene refers to the status and cleanliness of IP address data within the network infrastructure. It involves ensuring that all IP addresses are properly allocated, organized, and compliant with the network's configuration standards and policies.

Ensure compliance for IP addresses across IPAM, DNS, and CMDB. Utilize this Self-Service form to:

The following reports are available under the **Hygiene** tab:



1. Go to **DDI+ > IP Compliance**, and then click **Hygiene**.

The Hygiene page appears.

2. Ensure compliance for IP addresses across IPAM, DNS, and CMDB. Utilize this Self-Service form to:
 - a. Enter an IP Address and search for details across DDI and CMDB.
 - b. View DNS and IPAM details.
 - c. Create IP reservations if no reservation is found.
 - d. Create DNS records.
 - e. Update CMDB information.

Self Service

This section offers a comprehensive catalog for provisioning DNS and domain services across multiple vendors. Users can leverage self-service functionalities and automation tools to efficiently manage the entire lifecycle of domains and DNS configurations, ensuring a streamlined automation process.

- [Domain Lifecycle](#)
- [DNS Automation](#)
- [Viewing Service Requests](#)

Domain Lifecycle

- [Register a Domain](#)
- [Provisioning DNS Records](#)
- [Decommissioning Domains](#)
- [Updating Domain Info](#)
- [Generating Domain Expiry Report](#)
- [Creating Hosted Zones](#)
- [Renewing a Domain](#)
- [Domain Vulnerability](#)


Register a Domain

To register a domain follow the below steps.

1. Go to **DDI+ > Self Service > Domain Lifecycle**, and then click **Register Domain**.

The workflow execution page is displayed with the workflow inputs requested at the first stage.



Note: You can navigate back to the **DDI+** home page, by clicking  (**Home**) icon from the top left corner of the screen.

2. In the **Info** field, read the workflow usage instructions.
3. In the **Requester Details** section, enter the **Requester Name**, **Requester Email Address**, and **Team DL** in the respective field.

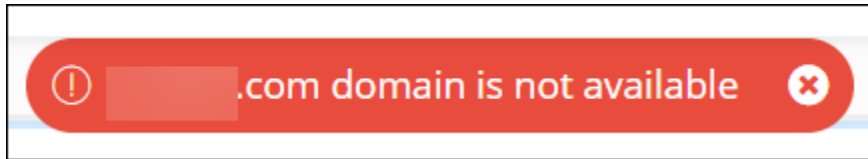


Note: Multiple email addresses must be entered as comma-separated values. The field information for the first two fields will be fetched automatically from the logged in user information.

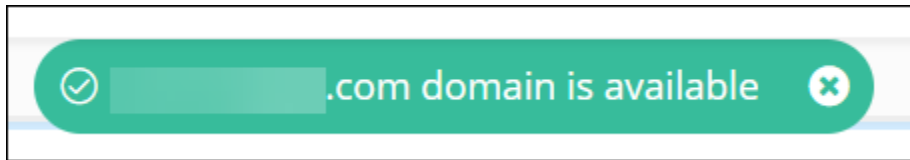
4. In the **Domain Search** section, enter the **Domain Registrar**, **Domain Account**, and **Domain Name** that you want to register.

5. To check if the requested domain name is available, click **Check Domain Availability**.


- If the domain name is already registered, the following header notification is displayed on the top of your screen in red:



- If the domain name is available, the following header notification is displayed on the top of your screen in green and the remaining fields in the Domain Search section are auto-populated:



The following table describes the other fields in this section:

Field	Description
*Domain Price (USD)	Displays the price (per annum) for registering the domain.
*Auto Renewal	Select Off or On depending on whether you want to enable Auto Renewal. <div style="border: 1px solid #add8e6; border-radius: 10px; padding: 10px; background-color: #e6f2ff;">  Note: If Auto Renewal field selection is On, the domain name is automatically renewed when it is about to expire. If the selection is Off, an expiry notification will be sent to the approver to renew the domain name. </div>
*Validity Period (Years)	By default, this value is auto-populated as 1 year. You can change the value for up to 10 years.
*NameServer Selection	Select the method for NameServer Selection: <ul style="list-style-type: none"> • Registrar's Default: A default NameServer is provided by the Registrar. • Auto: NameServer will be fetched from the values configured during the Registrar integration. • Manual: You can manually add custom NameServers.
*: Mandatory fields	

6. In the **Additional Domain Info** section, enter or select the required field information.


Field	Description
Business Unit	Select the business unit as configured during the Registrar integration.
Tags	Enter tags to be associated with the domain (if required).
Comments	Enter any comments (if required).

7. Click **Submit**.

At the **Verification** stage of the workflow execution, an email for domain name approval is sent to the approver. Once the approver approves the request, the domain is procured.

The screenshot shows a workflow execution interface. On the left, a sidebar lists the workflow steps: Domain Search, Approval Text, Send Domain Approval Request, Verification, Payload Generator, GoDaddy Domain Procurement (highlighted), Get Order Summary, Order Summary, and Purchase Notification. The main area displays a 'GoDaddy Domain Procurement' success message with a cloud and server icon. Below the main area, a logs panel shows the execution details for the 'GoDaddy Domain Procurement' step, including the timestamp, currency, item count, order ID, and total amount.

8. To view the order details, go to the **Order Summary** stage of workflow execution.

9. To download a copy of the order summary, from the top right corner of the screen click  (Download) icon.

Provisioning DNS Records

DNS records provide information about domains such as IP address(es) associated with that domain, handling requests for the domain, and so on.

To add DNS records to your hosted zones:

1. From the **Domain Lifecycle** section, click **Add DNS Records**.

The workflow execution page is displayed in a new tab with the workflow inputs requested at the first stage.

- In the **Requester Details** section, in the **Team DL** field, enter the email addresses to which the domain registration email should be sent.



Note: Multiple email addresses must be entered as comma-separated values. The field information for the first two fields will be fetched automatically from the logged in user information.

- In the **DNS Details** section, in the **Search Domain** field, enter search text/keywords for searching domains.
- Click **Search Domains**.
The values in the next fields in the **DNS Details** section will be populated based on the information provided in the above fields.
- Enter or select the required field information in the remaining fields in the **DNS Details** section.

^ DNS Details

* Search Domain

[Search Domains](#)


* Domain Name i

* DNS Provider

* DNS Provider Account

The following table describes the field information required here:

Field	Description
* Domain Name	Select the Domain Name from the options available in the dropdown list, to create the record. <div style="border: 1px solid #007bff; border-radius: 10px; padding: 10px; margin-top: 10px;"> Note: The values in this field will be fetched based on the domain name search results. </div>
* DNS Provider	Select the DNS provider from the options available in the dropdown.

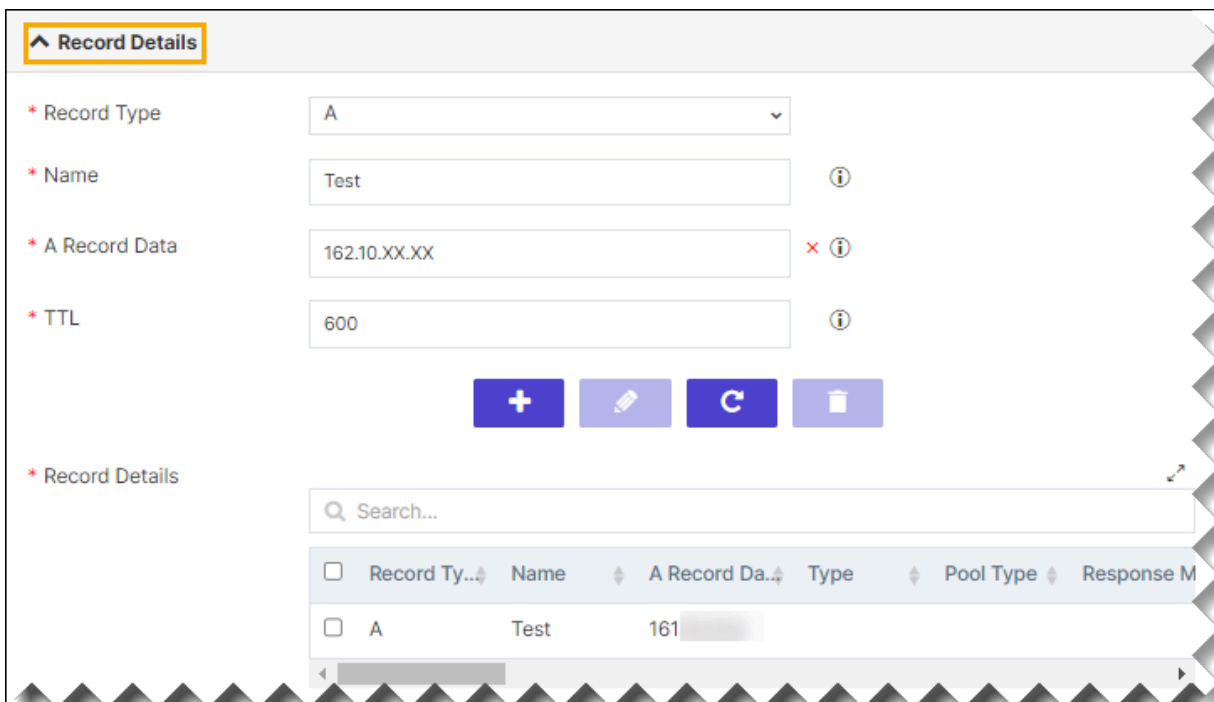
Field	Description
	 Note: The value(s) in this field will be fetched based on the domain name (TLD). For example, you can configure the TLD settings such that if the domain name selected is .net, the DNS Provider field will display Akamai or if the domain name selected is .org, then the DNS Provider field will display UltraDNS and so on.
*DNS Provider Account	Select the DNS provider account from the options available in the dropdown.
*: Mandatory fields	

6. In the **Record Details** section, enter or select the required field information.



Note: The fields displayed in this section will change depending on the **Record Type** selected.

7. To add the selected record details to the **Record Details** grid, click the  (Add) icon.



Record Details

* Record Type: A

* Name: Test

* A Record Data: 162.10.XX.XX


* TTL: 600



Buttons: +, Pencil, C, Trash

* Record Details

Search...

Record Ty...	Name	A Record Da...	Type	Pool Type	Response M
<input type="checkbox"/>	A	Test	161		

8. To edit the record details in the **Record Details** grid, select the row, modify the details, and click the  (Pencil) icon.

9. To delete a record detail, select the row to be deleted in the grid and click the  (**Delete**) icon.
10. To maximize the **Record Details** grid, from the top right corner of the grid, click the  (**Expand**) icon.
11. To search for a particular profile/application in the grid, type the keyword(s) in the search field.
12. Click **Submit**.
13. At the **Zone Creation** stage of workflow execution, verify the information displayed and click **Submit**.
DNS Record is created successfully.

Decommissioning Domains

You can decommission domains that are no longer in use and delete them from the registrars.

To decommission a domain:

1. Go to **DDI+ > Self Service > Domain Lifecycle**, and then click **Decommissioning Domains**.
The workflow execution page is displayed with the workflow inputs requested at the first stage.
2. In the **Requester Details** section, in the **Team DL** field, enter the email addresses to which the domain registration email should be sent. Multiple email addresses must be entered as comma-separated values.

Requester Details

* Requester Name

* Requester Email Address

* Team DL 



Note: The field information for the first two fields will be fetched automatically from the logged in user information.

3. In the **Domain Decommissioning** section, enter or select the required field information.

The following table describes the field information in this section:


Field	Description
*Search Condition	Select from the following search conditions: <ul style="list-style-type: none"> • Starts With: Domains search result will list domains that start with the value provided in the next field. • Contains: Domains search result will list domains that start with the value provided in the next field. • Ends With: Domains search result will list domains that start with the value provided in the next field.
*Search Domain Name	Enter the search text/keywords for searching the domains.
*: <i>Mandatory fields</i>	

4. Click **Fetch Domains**.

The values in the next field in the **Domain Decommissioning** section will be populated based on the information provided in the previous fields.

5. Enter or select the required field information in the remaining fields.

The following table describes the field information required here:

Field	Description
*Select Domain	Select the Domain from the options available in the dropdown. <div style="border: 1px solid #0070C0; border-radius: 10px; padding: 10px; margin-top: 10px;">  Note: The values in this field will be fetched based on the domain name search results. </div>
*Vendor	The vendor name is fetched automatically based on the domain name selection
*Do you want to remove associated DNS Records?	Select if you want to delete the DNS records associated with the selected domain name and vendor.
*: <i>Mandatory fields</i>	

6. Click **Submit**.

An approval request is sent to the approver to approve or reject the domain decommissioning. Once the request is approved, the selected domain is decommissioned.

Updating Domain Info

This workflow allows you to update the domain information in the AppViewX inventory.

To update the domain information:

1. Go to **DDI+ > Self Service > Domain Lifecycle**, and then click **Update Domain Information**.

The workflow execution page is displayed with the workflow inputs requested at the first stage.



Note: In the **Requester Details** section, the field information will be fetched automatically from the logged in user information.

2. In the **Domain Info** section, enter or select the required field information.

The following table describes the field information in this section:

Field	Description
*Search Condition	Select from the following search conditions: <ul style="list-style-type: none"> • Starts With: Domains search result will list domains that start with the search text provided in the next field. • Contains: Domains search result will list domains that start with the search text provided in the next field. • Ends With: Domains search result will list domains that start with the search text provided in the next field.
*Search Domain Name	Enter search text that is part of the domain name to show matching results.
*: <i>Mandatory fields</i>	

3. Click **Search Domains**.



Note: The **Domain Name** field is auto-populated with domain names matching the search query.

4. Select the **Domain Name** for which the information has to be updated.
5. Select the **Domain Registrar** from the options available in the dropdown.



Note: The options available in the Domain Registrar field will vary according to the Domain Name selected.

6. Select if you want the **Auto Renewal** feature **On** or **Off**.
7. Enter the **NameServers** that will redirect traffic to the DNS servers.
8. Click **Submit**.

The Domain information for the selected domain is updated.

Generating Domain Expiry Report

You can generate different reports displaying the domain statuses based on:

- Domains that have expired
- Domains that will expire in a specific number of days
- List of all domains

To generate any of these reports:

1. Go to **DDI+ > Self Service > Domain Lifecycle**, and then click **Generate Domain Expiry Report**.

The workflow execution page is displayed with the workflow inputs requested at the first stage.

The screenshot displays the AppViewX interface for generating a domain expiry report. The breadcrumb trail is 'Domain Lifecycle > Request > Domain Expiry Report Notification :: FormBuilder'. The page is divided into two main sections: 'Workflow Info' and 'Domain Expiry Report'.

Workflow Info: This section contains an information box stating: 'This workflow enables you to generate different types of report based on domain status. a. Expiring Domains List b. Expired Domains List c. Complete Domains List'. Below this, there is a step indicator: '1. Select the report type that needs to be generated.'



Domain Expiry Report: This section contains several input fields:

- Domain Registrar:** A dropdown menu with 'GoDaddy' selected.
- Report Type:** A dropdown menu with 'By Expiry Days' selected.
- Time Frame:** A dropdown menu with 'Exact' selected.
- Domain Expiry Days:** A text input field containing '90'.
- Email Type:** Radio buttons for 'User Email' (selected) and 'Domain Email'.
- Email:** A text input field containing 'nareshkumar.gunadass@appviewx.com'.


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

2. In the **Domain Expiry Report** section, enter or select the required field information.

The following table describes the fields in this section:

Field	Description
*Domain Registrar	Select the configured domain registrar account from the options available in the dropdown.
*Report Type	Select the type of report you want to generate. The options available are: <ul style="list-style-type: none"> • By Expiry Days: This generates a report listing the domains expiring within the specified number of days. • Expired Domains: This generates a report listing all the expired domains. • Complete Report: This generates a report listing all active and expired domains.
*Domain Expiry Days	Enter the number of days to the date of expiry, for which you want to generate a report. For example: If you enter the value 10, the report generated will display a list of domains expiring 10 days before the date of expiry. <div style="border: 1px solid #00a0e3; border-radius: 10px; padding: 10px; margin-top: 10px;">  Note: This field is displayed only when you select the option By Expiry Days in the Report Type field. </div>
*Email	Enter the email address of the user to whom the report will be sent. <div style="border: 1px solid #00a0e3; border-radius: 10px; padding: 10px; margin-top: 10px;">  Note: You can enter multiple email addresses as comma-separated values. </div>
*: <i>Mandatory fields</i>	

3. Click **Next**.

The **Domain Expiry Report** is generated. You can download it by clicking  from the top right corner of the screen.

Domain	NameServers	Auto Renewal	ExpiryDate	Status
ssdomain.net				
appviewx.info		false		PENDING_SETUP
appviewx1.info		false		PENDING_SETUP
testappvsss.info		false		PENDING_SETUP
testappvsss.info		false		PENDING_SETUP
appviewx2.info	ns01.ote.domaincontrol.com, ns02.ote.domaincontrol.com	false	2023-10-06	ACTIVE
testapp.info	a1-225.akam.net, a10-65.akam.net, a26-66.akam.net, a20-66.akam.net, a5-66.akam.net, a3-66.akam.net	false	2023-10-06	ACTIVE
testapp1.info	a1-225.akam.net, a10-65.akam.net, a26-66.akam.net, a20-66.akam.net, a5-66.akam.net, a3-66.akam.net	false	2023-10-06	ACTIVE
testapp2.info	a1-225.akam.net, a10-65.akam.net, a26-66.akam.net, a20-66.akam.net, a5-66.akam.net, a3-66.akam.net	false	2024-10-06	ACTIVE
appview.info	ns01.ote.domaincontrol.com, ns02.ote.domaincontrol.com	false	2027-10-07	ACTIVE
appview2.info	ns01.ote.domaincontrol.com,	false	2023-10-07	ACTIVE

Creating Hosted Zones

A hosted zone contains records that store information on how the traffic for a specific domain should be routed.

1. Go to **DDI+ > Self Service > Domain Lifecycle**, and then click **Create Hosted Zones**.

The workflow execution page is displayed in a new tab with the workflow inputs requested at the first stage.



Note: In the **User Details** section, the field information will be fetched automatically from the logged in user information.

2. In the **Zone Details** section, under **Domain Search**, enter or select the required field information.

The following table describes the field information required here:

Field	Description
*Search Condition	<p>Select from the following search conditions:</p> <ul style="list-style-type: none"> • Starts With: Domains search result will list domains that start with the search text provided in the next field. • Contains: Domains search result will list domains that start with the search text provided in the next field. • Ends With: Domains search result will list domains that start with the search text provided in the next field.




Field	Description
*Search Domain Name	Enter the search text/keywords for searching the domains.
*: <i>Mandatory fields</i>	

3. Click **Search Domains**.

The values in the next fields in the **Zone Details** section will be populated based on the information provided in the above fields.

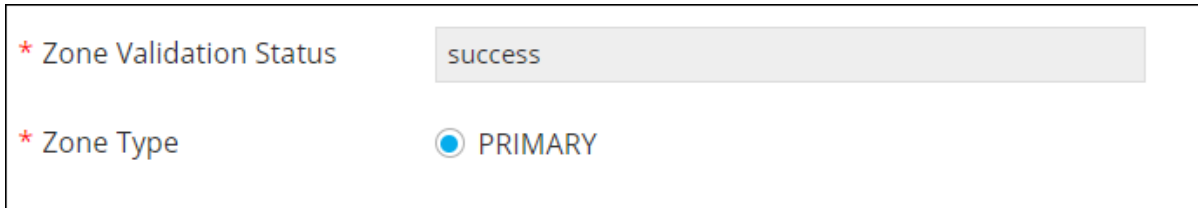
4. Enter or select the required field information in the remaining fields.

The following table describes the field information required here:

Field	Description
*Zone Name	<p>Select the Zone name from the options available in the dropdown.</p> <div style="border: 1px solid #0070C0; border-radius: 10px; padding: 10px; margin-top: 10px;">  Note: The values in this field are fetched based on the domain name search in the previous fields. </div>
*DNS Provider	<p>Select the DNS provider from the options available in the dropdown.</p> <div style="border: 1px solid #0070C0; border-radius: 10px; padding: 10px; margin-top: 10px;">  Note: The value(s) in this field will be fetched based on the domain name (TLD). For example, you can configure the TLD settings such that if the domain name selected is .net, the DNS Provider field will display Akamai or if the domain name selected is .org, then the DNS Provider field will display UltraDNS and so on. </div>
*DNS Provider Account	<p>Select the DNS provider account from the options available in the dropdown.</p> <div style="border: 1px solid #0070C0; border-radius: 10px; padding: 10px; margin-top: 10px;">  Note: The value(s) in this field are populated based on the option selected in the DNS Provider field. </div>
*: <i>Mandatory fields</i>	

5. To check if a zone is available, click **Zone Availability**.

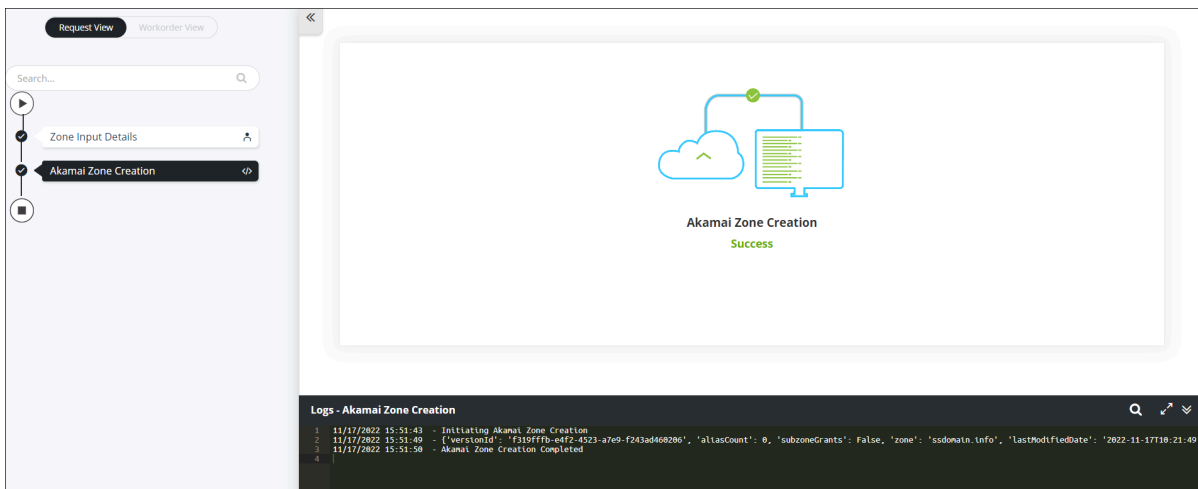
A zone availability check runs in the background and the **Zone Validation Status** is updated as success or failure.



Note: Currently only primary **Zone Type** is supported.

6. Click **Submit**.

The hosted zone is created successfully.



Renewing a Domain

A domain is typically registered for a period of one year. At the end of the year, the domain can be decommissioned (if not in use) or renewed. AppViewX facilitates the automation of the domain renewal process.

To renew a domain:

1. Go to **DDI+ > Self Service > Domain Lifecycle**, and then click **Renew Domains**.

The workflow execution page is displayed with the workflow inputs requested at the first stage.

2. In the **Requester Details** section, in the **Team DL** field, enter the email addresses to which the domain registration email should be sent. Multiple email addresses must be entered as comma-separated values.

^ Requester Details

* Requester Name

* Requester Email Address

* Team DL i




Note: The field information for the first two fields will be fetched automatically from the logged in user information.

3. In the **Domain Search** section, enter or select the required field information.




The following table describes the field information in this section:

Field	Description
* Search By	Select if you want to search the domain that you want to renew by: <ul style="list-style-type: none"> • Domain Name: You can use this option when you know the specific domain that needs to be renewed. • Expiry Days: You can use this option when you want to renew domain(s) expiring within a specific number of days
* Domain Name	Enter the domain name that you want to renew. <div style="border: 1px solid #0070C0; border-radius: 10px; padding: 5px; margin-top: 10px;"> <p> Note: This field is displayed only when you select Domain Name in the Search By field.</p> </div>
* Domain Expiry Days	Enter the number of days till the expiry of the domain. <div style="border: 1px solid #0070C0; border-radius: 10px; padding: 5px; margin-top: 10px;"> <p> Note: This field is displayed only when you select Expiry Days in the Search By field.</p> </div>

Field	Description
Get Domains	Click this button to get a list of domains that are expiring within the number of days specified in the Domain Expiry Days field.
*Expiry Domains List	Select the domain(s) that you want to renew from the dropdown list. <div style="border: 1px solid #00a0e3; border-radius: 10px; padding: 5px; margin-top: 10px;">  Note: This list is populated only when you click the Get Domains button. </div>
*: <i>Mandatory fields</i>	

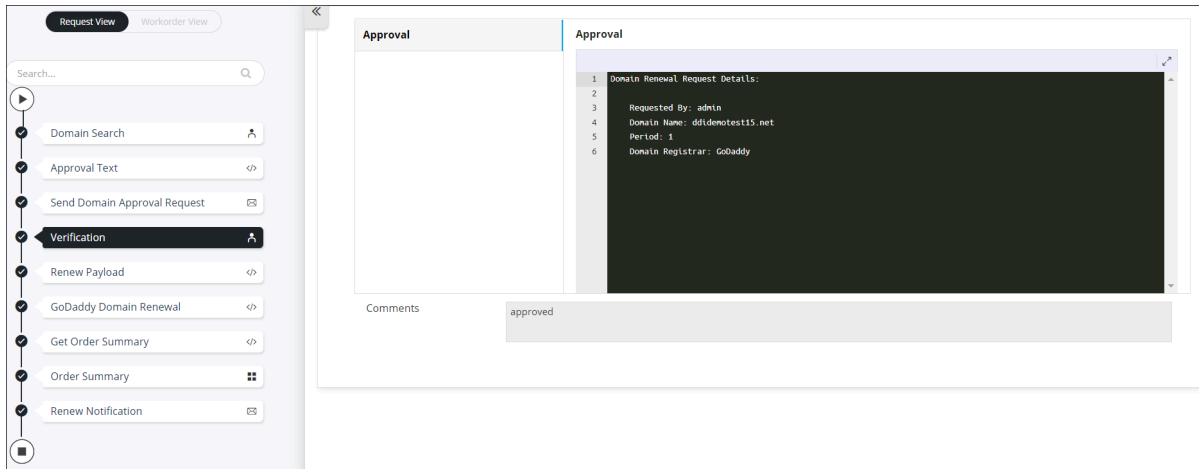
4. In the **Domain Information** section, enter the required field information.

The following table describes the field information in this section:

Field	Description
*Domain Name	Displays the name of the domain that is to be renewed based on the selection in the Domain Search section. <div style="border: 1px solid #00a0e3; border-radius: 10px; padding: 5px; margin-top: 10px;">  Note: This is an auto-populated, read-only field. </div>
*Domain ID	Displays the domain ID of the domain to be renewed. <div style="border: 1px solid #00a0e3; border-radius: 10px; padding: 5px; margin-top: 10px;">  Note: This is an auto-populated, read-only field. </div>
*Expiring At	Displays the date on which the domain will expire. <div style="border: 1px solid #00a0e3; border-radius: 10px; padding: 5px; margin-top: 10px;">  Note: This is an auto-populated, read-only field. </div>
*Validity Period (Years)	Enter the number of years for which this domain is to be renewed.
Name Servers	Enter the name server details.
*: <i>Mandatory fields</i>	

5. Click **Submit**.

Domain renewal is approved and Domain Renewal notification is sent to the requester.



6. For more details on the renewal order, go to the **Order Summary** stage of the workflow.

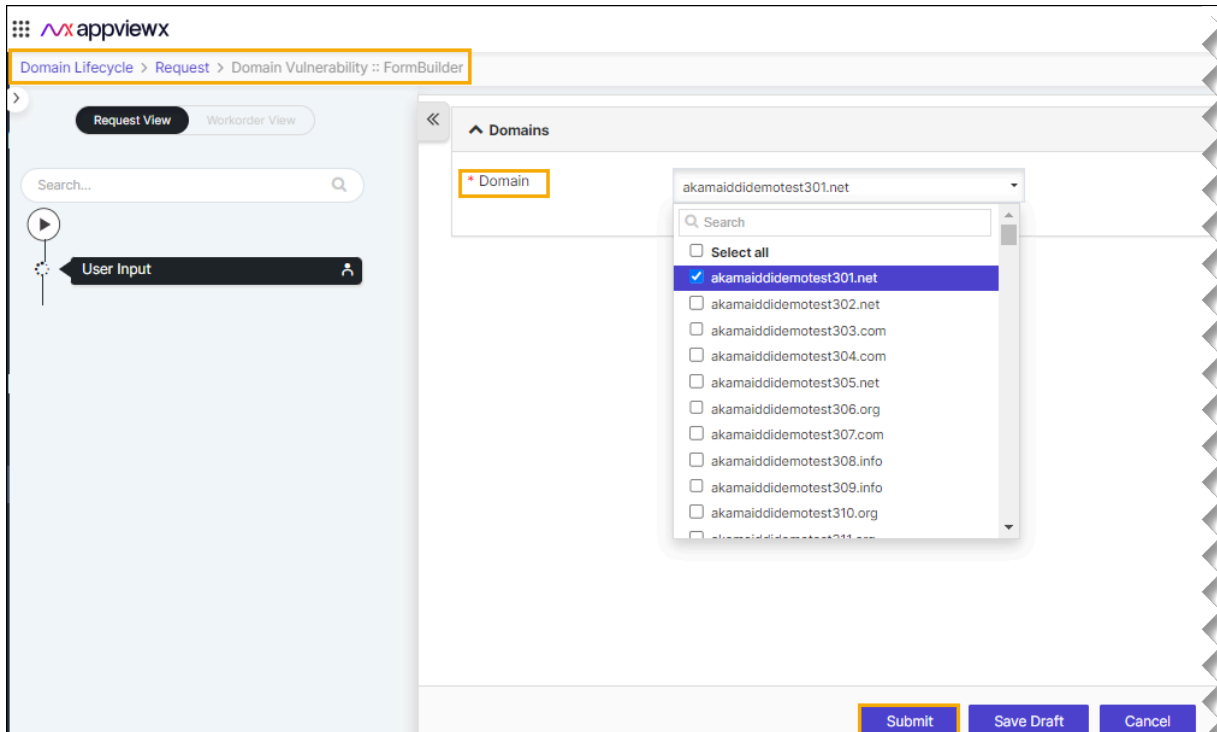
Domain Vulnerability

A domain vulnerability enables the scanning of potential vulnerabilities across domains and sub-domains. It categorizes these vulnerabilities based on various scan types including HTTPS/HTTP Scan, CNAME Scan, MX Record Scan, SPF Record Scan, DMARC Scan, and NS Scan.

To create a domain vulnerability:

1. Go to **DDI+ > Self Service > Domain Lifecycle**, and then click **Domain Vulnerability**.

The workflow execution page is displayed with the workflow inputs requested at the first stage.



2. In the **Domains** section, in the **Domain** field, select the desired domain vulnerability that you want submit.
3. Click **Submit**.

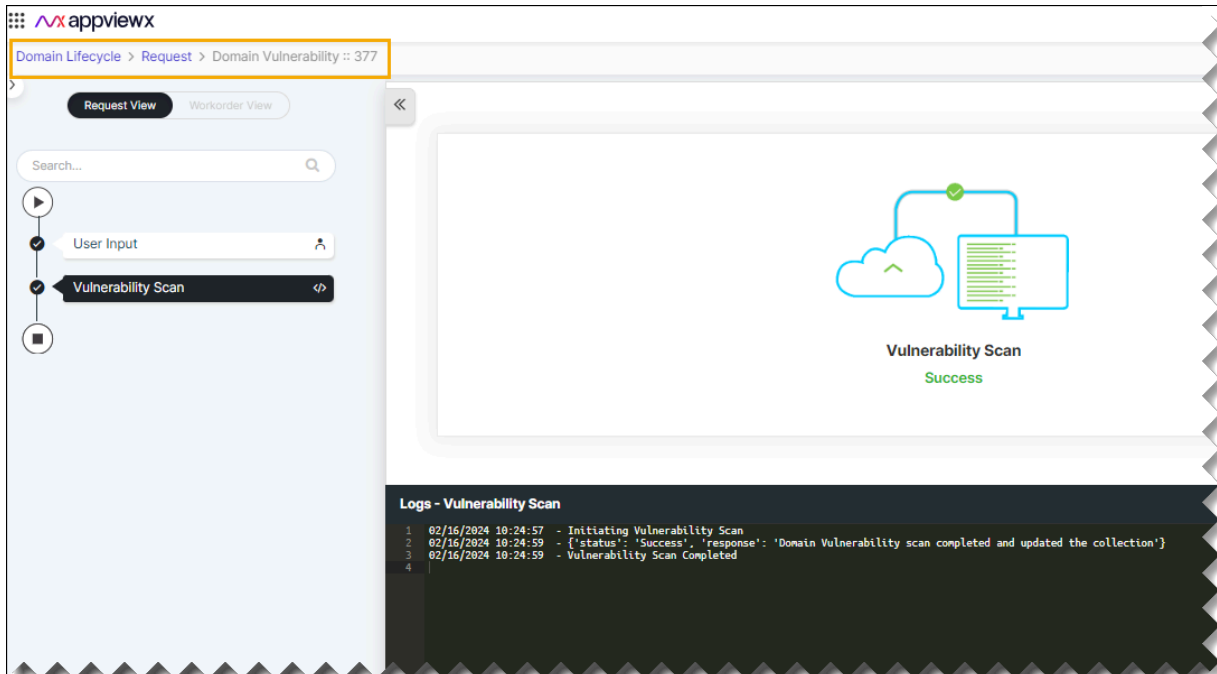
The pop-up message appears as

Are you sure you want to Submit?

4. Click **Ok**.

The pop-up message appears as

Request ID 123 Submitted Successfully.



5. For more details on the domain vulnerability, go to the **Domain Vulnerability Insights** dashboard.

DNS Automation

The DNS Automation section displays all workflows specific to DNS and domain lifecycle management, categorized under catalogs. The following workflow catalogs are available here:

- AWS Route53
- Ultra DNS
- Akamai Edge DNS
- Infoblox IPAM
- Bluecat IPAM
- Alerts and Notifications.
- [AWS Route53 Automation Catalog](#)
- [Ultra DNS Automation Catalog](#)
- [Akamai Edge Grid Automation Catalog](#)
- [Microsoft Automation Catalog](#)

- [Infoblox IPAM Automation Catalog](#)
- [Bluecat IPAM Automation Catalog](#)

AWS Route53 Automation Catalog

The following workflows are available under this catalog:

- [Creating Route53 DNS Records](#)
- [Creating Route53 Hosted Zone](#)
- [Modifying Route53 DNS Records](#)
- [Deleting Route53 DNS Records](#)

Creating Route53 DNS Records


DNS records provide information about domains such as IP address(es) associated with that domain, handling requests for the domain, and so on.

To create a Route53 DNS record:

1. In the **DNS Automation** section, under the **AWS Route53** catalog, hover your mouse over the **Create Route53 DNS Records** workflow and click .

The workflow execution page is displayed in the same tab with the workflow inputs requested at the first stage.



Note: You can go back to the **DNS Automation** page by clicking  (**Back arrow**) from the top left corner of the page.

2. In the **Requester Details** section, in the **Team DL** field, enter the email addresses to which the domain registration email should be sent. Multiple email addresses must be entered as comma-separated values.



Note: The field information for the first two fields will be fetched automatically from the logged in user information.

3. In the **DNS Details** section, enter or select the required field information.

The following table describes the field information required here:


Field	Description
* DNS Provider	This is a read only field and displays the DNS Provider name (Route53).
* Search Domain	Enter the search text/keywords for searching the domains.
*: <i>Mandatory fields</i>	

4. Click **Search Domains**.

The values in the next fields in the **DNS Details** section will be populated based on the information provided in the above fields.


5. Enter or select the required field information in the remaining fields.

The following table describes the field information required here:


Field	Description
* Domain Name	Select the Domain Name from the options available in the dropdown list, to create the record. <div style="border: 1px solid #0070c0; border-radius: 10px; padding: 10px; background-color: #e6f2ff;">  Note: The values in this field will be fetched based on the search keywords entered in the previous fields. </div>
* DNS Provider Account	Select the DNS provider account from the options available in the dropdown.
*: <i>Mandatory fields</i>	

6. In the **Record Details** section, enter or select the required field information.

7. To add the selected record details to the **Record Details** grid, click the  (**Add**) icon.

8. To edit the record details in the **Record Details** grid, select the row, modify the details, and click the  (**Pencil**) icon.

9. To delete a record detail, select the row to be deleted in the grid and click the  (**Delete**) icon.

10. To maximize the **Record Details** grid, from the top right corner of the grid, click the  (**Expand**) icon.


11. To search for a particular profile/application in the grid, type the keyword(s) in the search field.

12. Click **Submit**.

Creating Route53 Hosted Zone


A hosted zone contains records that store information on how the traffic for a specific domain should be routed.

To create a Route53 hosted zone:

1. In the **DNS Automation** section, under the **Akamai Edge DNS** catalog, hover your mouse over the **Create Akamai Edge Hosted Zone** workflow and click .

The workflow execution page is displayed in the same tab with the workflow inputs requested at the first stage.



Note: In the **User Details** section, the field information will be fetched automatically from the logged in user information. You can go back to the **DNS Automation** page by clicking  from the top left corner of the page.

2. In the **Zone Details** section, enter or select the required field information in the remaining fields.

The following table describes the field information required here:

Field	Description
* DNS Provider	This is a read only field and displays the name of the DNS Provider (in this case, Akamai).
* DNS Provider Account	Select the DNS provider account in which the Hosted Zone will be created from the options available in the dropdown. <div data-bbox="467 1333 516 1388" data-label="Image"> </div> Note: The value(s) in this field are populated based on the option selected in the DNS Provider field.
* Domain Name	Enter a valid domain name to create the hosted zone. For example: app.com, prod.app.com
*: <i>Mandatory fields</i>	

3. To check if a zone is available, click **Zone Validation**.



Note: Currently only Primary **Zone Type** is supported.

A zone availability check runs in the background and the **Zone Validation Status** is updated as success or failure.

4. Click **Submit**.

Modifying Route53 DNS Records

This workflow allows you to modify the record type, name, and other record details.

To modify a Route53 DNS record:

1. In the **DNS Automation** section, under the **AWS Route53** catalog, hover your mouse over the **Modify Route53 DNS Records** workflow and click .

The workflow execution page is displayed in the same tab with the workflow inputs requested at the first stage.



Note: You can go back to the **DNS Automation** page by clicking the  (**Back arrow**) icon from the top left corner of the page.

2. In the **Requester Details** section, in the **Team DL** field, enter the email addresses to which the domain registration email should be sent. Multiple email addresses must be entered as comma-separated values.



Note: The field information for the first two fields will be fetched automatically from the logged in user information.

3. In the **DNS Details** section, enter or select the required field information.

The following table describes the field information required here:


Field	Description
* DNS Provider	This is a read only field and displays the DNS Provider name (Route53).
* Search Domain	Enter the search text/keywords for searching the domains.
*: <i>Mandatory fields</i>	





4. Click **Search Domains**.

The values in the next fields in the **DNS Details** section will be populated based on the information provided in the above fields.

5. Enter or select the required field information in the remaining fields.

The following table describes the field information required here:

Field	Description
* Domain Name	Select the Domain Name from the options available in the dropdown list, to modify the record. <div style="border: 1px solid #0070c0; border-radius: 10px; padding: 10px; margin-top: 10px;">  Note: The values in this field will be fetched based on the search keywords entered in the previous fields. </div>
* DNS Provider Account	Select the DNS provider account from the options available in the dropdown.
*: <i>Mandatory fields</i>	

6. In the **Record Details** section, enter or select the required field information.
7. To add the selected record details to the **Record Details** grid, click .
8. To edit the record details in the **Record Details** grid, select the row, modify the details, and click .
9. To delete a record detail, select the row to be deleted in the grid and click .
10. To maximize the **Record Details** grid, from the top right corner of the grid, click .
11. To search for a particular profile/application in the grid, type the keyword(s) in the search field.
12. Click **Submit**.

Deleting Route53 DNS Records

You can delete a DNS record(s) and completely remove them from your zone file when it is no longer needed or the TTL (Time To Live) for the record expires.

To delete a Route53 DNS record:

1. In the **DNS Automation** section, under the **AWS Route53** catalog, hover your mouse over the **Delete Route53 DNS Records** workflow and click .

The workflow execution page is displayed in the same tab with the workflow inputs requested at the first stage.



Note: You can go back to the **DNS Automation** page by clicking  from the top left corner of the page.

- In the **Requester Details** section, in the **Team DL** field, enter the email addresses to which the domain registration email should be sent. Multiple email addresses must be entered as comma-separated values.



Note: The field information for the first two fields will be fetched automatically from the logged in user information.

- In the **DNS Details** section, enter or select the required field information.

The following table describes the field information required here:


Field	Description
* DNS Provider	This is a read only field and displays the DNS Provider name (Route53).
* Search Domain	Enter the search text/keywords for searching the domains.
*: <i>Mandatory fields</i>	





- Click **Search Domains**.

The values in the next fields in the **DNS Details** section will be populated based on the information provided in the above fields.

- Enter or select the required field information in the remaining fields.

The following table describes the field information required here:

Field	Description
* Domain Name	Select the Domain Name from the options available in the dropdown list, to delete the record. <div data-bbox="462 1564 1421 1690" style="border: 1px solid #00a0e3; border-radius: 10px; padding: 10px; margin: 10px 0;">  Note: The values in this field will be fetched based on the search keywords entered in the previous fields. </div>
* DNS Provider Account	Select the DNS provider account from the options available in the dropdown.
*: <i>Mandatory fields</i>	

6. In the **Record Details** section, enter or select the required field information.
7. To add the selected record details to the **Record Details** grid, click .
8. To edit the record details in the **Record Details** grid, select the row, modify the details, and click .
9. To delete a record detail, select the row to be deleted in the grid and click .
10. To maximize the **Record Details** grid, from the top right corner of the grid, click .
11. To search for a particular profile/application in the grid, type the keyword(s) in the search field.
12. Click **Submit**.

Ultra DNS Automation Catalog

The following workflows are available under this catalog:

- [Creating UltraDNS Records](#)
- [Creating UltraDNS Hosted Zone](#)
- [Modifying UltraDNS Records](#)
- [Deleting UltraDNS Records](#)

Creating UltraDNS Records

DNS records provide information about domains such as IP address(es) associated with that domain, handling requests for the domain, and so on.

To create a UltraDNS record:

1. In the **DNS Automation** section, under the **UltraDNS** catalog, hover your mouse over the **Create UltraDNS Records** workflow and click .

The workflow execution page is displayed in the same tab with the workflow inputs requested at the first stage.



Note: You can go back to the **DNS Automation** page by clicking  (**Back arrow**) icon from the top left corner of the page.

2. In the **Requester Details** section, in the **Team DL** field, enter the email addresses to which the domain registration email should be sent. Multiple email addresses must be entered as comma-separated values.



Note: The field information for the first two fields will be fetched automatically from the logged in user information.

- In the **DNS Details** section, enter or select the required field information.

The following table describes the field information required here:


Field	Description
* DNS Provider	This is a read only field and displays the DNS Provider name (UltraDNS).
* Search Domain	Enter the search text/keywords for searching the domains.
*: <i>Mandatory fields</i>	

- Click **Search Domains**.


The values in the next fields in the **DNS Details** section will be populated based on the information provided in the above fields.

- Enter or select the required field information in the remaining fields.

The following table describes the field information required here:

Field	Description
* Domain Name	Select the Domain Name from the options available in the dropdown list, to create the record. <div data-bbox="462 1220 1419 1354" style="border: 1px solid #0070C0; border-radius: 10px; padding: 10px; margin: 10px 0;">  Note: The values in this field will be fetched based on the search keywords entered in the previous fields. </div>
* DNS Provider Account	Select the DNS provider account from the options available in the dropdown.
*: <i>Mandatory fields</i>	


- In the **Record Details** section, enter or select the required field information.

- To add the selected record details to the **Record Details** grid, click .

- To edit the record details in the **Record Details** grid, select the row, modify the details, and click




- To delete a record detail, select the row to be deleted in the grid and click .

10. To maximize the **Record Details** grid, from the top right corner of the grid, click .
11. To search for a particular profile/application in the grid, type the keyword(s) in the search field.
12. Click **Submit**.

Creating UltraDNS Hosted Zone

A hosted zone contains records that store information on how the traffic for a specific domain should be routed.

To create a UltraDNS hosted zone:

1. In the **DNS Automation** section, under the **UltraDNS** catalog, hover your mouse over the **Create UltraDNS Hosted Zone** workflow and click .

The workflow execution page is displayed in the same tab with the workflow inputs requested at the first stage.



Note: In the **User Details** section, the field information will be fetched automatically from the logged in user information.

2. In the **Zone Details** section, enter or select the required field information in the remaining fields.

The following table describes the field information required here:

Field	Description
* DNS Provider	This is a read only field and displays the name of the DNS Provider (in this case, Akamai).
* DNS Provider Account	Select the DNS provider account in which the Hosted Zone will be created from the options available in the dropdown. <div data-bbox="467 1501 521 1551" data-label="Image"></div> Note: The value(s) in this field are populated based on the option selected in the DNS Provider field.
* Domain Name	Enter a valid domain name to create the hosted zone. For example: app.com, prod.app.com
*: <i>Mandatory fields</i>	

3. To check if a zone is available, click **Zone Validation**.



Note: Currently only Primary **Zone Type** is supported.

A zone availability check runs in the background and the **Zone Validation Status** is updated as success or failure.

4. Click **Submit**.

Modifying UltraDNS Records

This workflow allows you to modify the record type, name, and other record details.

To modify a UltraDNS record:

1. In the **DNS Automation** section, under the **UltraDNS** catalog, hover your mouse over the **Modify**

UltraDNS Records workflow and click .

The workflow execution page is displayed in the same tab with the workflow inputs requested at the first stage.

2. In the **Requester Details** section, in the **Team DL** field, enter the email addresses to which the domain registration email should be sent. Multiple email addresses must be entered as comma-separated values.



Note: The field information for the first two fields will be fetched automatically from the logged in user information.

3. In the **DNS Details** section, enter or select the required field information.

The following table describes the field information required here:


Field	Description
* DNS Provider	This is a read only field and displays the DNS Provider name (UltraDNS).
* Search Domain	Enter the search text/keywords for searching the domains.
*: <i>Mandatory fields</i>	





4. Click **Search Domains**.

The values in the next fields in the **DNS Details** section will be populated based on the information provided in the above fields.

5. Enter or select the required field information in the remaining fields.

The following table describes the field information required here:

Field	Description
* Domain Name	Select the Domain Name from the options available in the dropdown list, to modify the record. <div style="border: 1px solid #0070C0; border-radius: 10px; padding: 10px; background-color: #E6F2FF;">  Note: The values in this field will be fetched based on the search keywords entered in the previous fields. </div>
* DNS Provider Account	Select the DNS provider account from the options available in the dropdown.
All * marked fields are mandatory.	

6. In the **Record Details** section, enter or select the required field information.
7. To add the selected record details to the **Record Details** grid, click .
8. To edit the record details in the **Record Details** grid, select the row, modify the details, and click .
9. To delete a record detail, select the row to be deleted in the grid and click .
10. To maximize the **Record Details** grid, from the top right corner of the grid, click .
11. To search for a particular profile/application in the grid, type the keyword(s) in the search field.
12. Click **Submit**.

Deleting UltraDNS Records

You can delete a DNS record(s) and completely remove them from your zone file when it is no longer needed or the TTL (Time To Live) for the record expires.

To delete a UltraDNS record:

1. In the **DNS Automation** section, under the **UltraDNS** catalog, hover your mouse over the **Delete UltraDNS Records** workflow and click .

The workflow execution page is displayed in the same tab with the workflow inputs requested at the first stage.

2. In the **Requester Details** section, in the **Team DL** field, enter the email addresses to which the domain registration email should be sent. Multiple email addresses must be entered as comma-separated values.



Note: The field information for the first two fields will be fetched automatically from the logged in user information.

- In the **DNS Details** section, enter or select the required field information.

The following table describes the field information required here:


Field	Description
* DNS Provider	This is a read only field and displays the DNS Provider name (UltraDNS).
* Search Domain	Enter the search text/keywords for searching the domains.
*: <i>Mandatory fields</i>	




- Click **Search Domains**.


The values in the next fields in the **DNS Details** section will be populated based on the information provided in the above fields.

- Enter or select the required field information in the remaining fields.

The following table describes the field information required here:

Field	Description
* Domain Name	Select the Domain Name from the options available in the dropdown list, to delete the record. <div data-bbox="462 1220 1419 1352" style="border: 1px solid #0070C0; border-radius: 10px; padding: 10px; margin: 10px 0;">  Note: The values in this field will be fetched based on the search keywords entered in the previous fields. </div>
* DNS Provider Account	Select the DNS provider account from the options available in the dropdown.
*: <i>Mandatory fields</i>	

- In the **Record Details** section, enter or select the required field information.
- To add the selected record details to the **Record Details** grid, click the  (**Add**) icon.
- To edit the record details in the **Record Details** grid, select the row, modify the details, and click the  (**Pencil**) icon.
- To delete a record detail, select the row to be deleted in the grid and click the  (**Delete**) icon.

10. To maximize the **Record Details** grid, from the top right corner of the grid, click the  (**Expand**) icon.
11. To search for a particular profile/application in the grid, type the keyword(s) in the search field.
12. Click **Submit**.

Akamai Edge Grid Automation Catalog


The following workflows are available under this catalog:

- [Creating Akamai Edge DNS Records](#)
- [Creating Akamai Edge Hosted Zone](#)
- [Modifying Akamai Edge DNS Records](#)
- [Deleting Akamai Edge DNS Records](#)

Creating Akamai Edge DNS Records

DNS records provide information about domains such as IP address(es) associated with that domain, handling requests for the domain, and so on.

To create a Akamai Edge DNS record:

1. In the **DNS Automation** section, under the **Akamai Edge DNS** catalog, hover your mouse over the **Create Akamai Edge DNS Records** workflow and click . The workflow execution page is displayed in the same tab with the workflow inputs requested at the first stage.
2. In the **Requester Details** section, in the **Team DL** field, enter the email addresses to which the domain registration email should be sent. Multiple email addresses must be entered as comma-separated values.



Note: The field information for the first two fields will be fetched automatically from the logged in user information.

3. In the **DNS Details** section, enter or select the required field information.

The following table describes the field information required here:

Field	Description
*DNS Provider	This is a read only field and displays the DNS Provider name (Akamai).


Field	Description
* Search Domain	Enter the search text/keywords for searching the domains.
*: <i>Mandatory fields</i>	

4. Click **Search Domains**.

The values in the next fields in the **DNS Details** section will be populated based on the information provided in the above fields.


5. Enter or select the required field information in the remaining fields.

The following table describes the field information required here:


Field	Description
* Domain Name	Select the Domain Name from the options available in the dropdown list, to create the record. <div style="border: 1px solid #0070c0; border-radius: 10px; padding: 10px; margin-top: 10px;">  Note: The values in this field will be fetched based on the search keywords entered in the previous fields. </div>
* DNS Provider Account	Select the DNS provider account from the options available in the dropdown.
*: <i>Mandatory fields</i>	

6. In the **Record Details** section, enter or select the required field information.

7. To add the selected record details to the **Record Details** grid, click the  (**Add**) icon.

8. To edit the record details in the **Record Details** grid, select the row, modify the details, and click the  (**Pencil**) icon.

9. To delete a record detail, select the row to be deleted in the grid and click the  (**Delete**) icon.

10. To maximize the **Record Details** grid, from the top right corner of the grid, click the  (**Expand**) icon.


11. To search for a particular profile/application in the grid, type the keyword(s) in the search field.

12. Click **Submit**.

Creating Akamai Edge Hosted Zone

A hosted zone contains records that store information on how the traffic for a specific domain should be routed.

To create a Akamai Edge hosted zone:

1. In the **DNS Automation** section, under the **Akamai Edge DNS** catalog, hover your mouse over the **Create Akamai Edge Hosted Zone** workflow, and then click the  (**Play**) icon.

The workflow execution page is displayed in the same tab with the workflow inputs requested at the first stage.



Note: In the **User Details** section, the field information will be fetched automatically from the logged in user information.

2. In the **Zone Details** section, enter or select the required field information in the remaining fields.

The following table describes the field information required here:

Field	Description
* DNS Provider	This is a read only field and displays the name of the DNS Provider (in this case, Akamai).
* DNS Provider Account	Select the DNS provider account in which the Hosted Zone will be created from the options available in the dropdown. <div data-bbox="467 1270 516 1323" data-label="Image"></div> Note: The value(s) in this field are populated based on the option selected in the DNS Provider field.
* Domain Name	Enter a valid domain name to create the hosted zone. For example: app.com, prod.app.com
*: <i>Mandatory fields</i>	

3. To check if a zone is available, click **Zone Validation**.



Note: Currently only Primary **Zone Type** is supported.


A zone availability check runs in the background and the **Zone Validation Status** is updated as success or failure.

4. Click **Submit**.

Modifying Akamai Edge DNS Records

This workflow allows you to modify the record type, name, and other record details.

To modify a Akamai Edge DNS record:

1. In the **DNS Automation** section, under the **Akamai Edge DNS** catalog, hover your mouse over the **Modify Akamai Edge DNS Records** workflow and click .

The workflow execution page is displayed in the same tab with the workflow inputs requested at the first stage.

2. In the **Requester Details** section, in the **Team DL** field, enter the email addresses to which the domain registration email should be sent. Multiple email addresses must be entered as comma-separated values.



Note: The field information for the first two fields will be fetched automatically from the logged in user information.

3. In the **DNS Details** section, enter or select the required field information.

The following table describes the field information required here:


Field	Description
* DNS Provider	This is a read only field and displays the DNS Provider name (Akamai).
* Search Domain	Enter the search text/keywords for searching the domains.
*: <i>Mandatory fields</i>	





4. Click **Search Domains**.

The values in the next fields in the **DNS Details** section will be populated based on the information provided in the above fields.

5. Enter or select the required field information in the remaining fields.

The following table describes the field information required here:


Field	Description
* Domain Name	Select the Domain Name from the options available in the dropdown list, to modify the record. <div style="border: 1px solid #00a0e3; border-radius: 10px; padding: 10px; background-color: #e6f2ff;">  Note: The values in this field will be fetched based on the search keywords entered in the previous fields. </div>
* DNS Provider Account	Select the DNS provider account from the options available in the dropdown.
*: <i>Mandatory fields</i>	

6. In the **Record Details** section, enter or select the required field information.
7. To add the selected record details to the **Record Details** grid, click the  (**Add**) icon.
8. To edit the record details in the **Record Details** grid, select the row, modify the details, and click the  (**Pencil**) icon.
9. To delete a record detail, select the row to be deleted in the grid and click the  (**Delete**) icon.
10. To maximize the **Record Details** grid, from the top right corner of the grid, click the  (**Expand**) icon.
11. To search for a particular profile/application in the grid, type the keyword(s) in the search field.
12. Click **Submit**.

Deleting Akamai Edge DNS Records

You can delete a DNS record(s) and completely remove them from your zone file when it is no longer needed or the TTL (Time To Live) for the record expires.

To delete a Akamai Edge DNS record:

1. In the **DNS Automation** section, under the **Akamai Edge DNS** catalog, hover your mouse over the **Delete Akamai Edge DNS Records** workflow and click .
The workflow execution page is displayed in the same tab with the workflow inputs requested at the first stage.
2. In the **Requester Details** section, in the **Team DL** field, enter the email addresses to which the domain registration email should be sent. Multiple email addresses must be entered as comma-separated values.



Note: The field information for the first two fields will be fetched automatically from the logged in user information.

- In the **DNS Details** section, enter or select the required field information.

The following table describes the field information required here:


Field	Description
* DNS Provider	This is a read only field and displays the DNS Provider name (Akamai).
* Search Domain	Enter the search text/keywords for searching the domains.
*: <i>Mandatory fields</i>	




- Click **Search Domains**.


The values in the next fields in the **DNS Details** section will be populated based on the information provided in the above fields.

- Enter or select the required field information in the remaining fields.

The following table describes the field information required here:

Field	Description
* Domain Name	Select the Domain Name from the options available in the dropdown list, to delete the record. <div data-bbox="462 1220 1419 1354" style="border: 1px solid #0070C0; border-radius: 10px; padding: 10px;">  Note: The values in this field will be fetched based on the search keywords entered in the previous fields. </div>
* DNS Provider Account	Select the DNS provider account from the options available in the dropdown.
*: <i>Mandatory fields</i>	

- In the **Record Details** section, enter or select the required field information.
- To add the selected record details to the **Record Details** grid, click the  (**Add**) icon.
- To edit the record details in the **Record Details** grid, select the row, modify the details, and click the  (**Pencil**) icon.
- To delete a record detail, select the row to be deleted in the grid and click the  (**Delete**) icon.

10. To maximize the **Record Details** grid, from the top right corner of the grid, click the  (**Expand**) icon.
11. To search for a particular profile/application in the grid, type the keyword(s) in the search field.
12. Click **Submit**.

Microsoft Automation Catalog

The following workflows are available under this catalog:

- [Creating Microsoft DNS Records](#)
- [Creating Microsoft DNS Zone](#)
- [Modifying Microsoft DNS Records](#)
- [Deleting Microsoft DNS Records](#)

Creating Microsoft DNS Records

DNS records provide information about domains such as IP address(es) associated with that domain, handling requests for the domain.

To create a Microsoft DNS record:

1. In the **DNS Automation** section, under the **Microsoft DNS** catalog, hover your mouse over the **Create Microsoft DNS Records** workflow and click .

The workflow execution page is displayed in the same tab with the workflow inputs requested at the first stage.



Note: You can go back to the **DNS Automation** page by clicking  (**Back arrow**) icon from the top left corner of the page.

2. In the **Requester Details** section, in the **Team DL** field, enter the email addresses to which the domain registration email should be sent. Multiple email addresses must be entered as comma-separated values.



Note: The field information for the first two fields will be fetched automatically from the logged in user information.

3. In the **DNS Details** section, enter or select the required field information.

The following table describes the field information required here:


Field	Description
* DNS Provider	This is a read only field and displays the DNS Provider name (Microsoft).
* Search Zone	Enter the search text/keywords for searching the zones.
*: <i>Mandatory fields</i>	

4. Click **Search Zones**.


The values in the next fields in the **DNS Details** section will be populated based on the information provided in the above fields.

5. Enter or select the required field information in the remaining fields.

The following table describes the field information required here:


Field	Description
* Zone Name	Select the Zone Name from the options available in the dropdown list, to create the record. <div style="border: 1px solid #0070C0; border-radius: 10px; padding: 10px; background-color: #E6F2FF;">  Note: The values in this field will be fetched based on the search keywords entered in the previous fields. </div>
* DNS Provider Account	Select the DNS provider account from the options available in the dropdown.
*: <i>Mandatory fields</i>	


6. In the **Record Details** section, enter or select the required field information.

7. To add the selected record details to the **Record Details** grid, click .

8. To edit the record details in the **Record Details** grid, select the row, modify the details, and click



9. To delete a record detail, select the row to be deleted in the grid and click .

10. To maximize the **Record Details** grid, from the top right corner of the grid, click .

11. To search for a particular profile/application in the grid, type the keyword(s) in the search field.

12. Click **Submit**.

Creating Microsoft DNS Zone

A hosted zone contains records that store information on how the traffic for a specific domain should be routed.

To create a Microsoft DNS zone:

1. In the **DNS Automation** section, under the **Microsoft DNS** catalog, hover your mouse over the **Create Microsoft DNS Zone** workflow and click .

The workflow execution page is displayed in the same tab with the workflow inputs requested at the first stage.



Note: In the **User Details** section, the field information will be fetched automatically from the logged in user information.

2. In the **Zone Details** section, enter or select the required field information in the remaining fields.

The following table describes the field information required here:

Field	Description
* DNS Provider	This is a read only field and displays the name of the DNS Provider (in this case, Microsoft).
* DNS Provider Account	Select the DNS provider account in which the Zone will be created from the options available in the dropdown. <div data-bbox="483 1270 527 1323" data-label="Image"></div> Note: The value(s) in this field are populated based on the option selected in the DNS Provider field.
* Server	Select the server from the dropdown list.
* Zone Name	Enter a valid zone name to create the zone. For example: app.com, prod.app.com
*: <i>Mandatory fields</i>	

3. To check if a zone is available, click **Zone Validation**.



Note: Currently only Primary **Zone Type** is supported.


A zone availability check runs in the background and the **Zone Validation Status** is updated as success or failure.

4. Click **Submit**.

Modifying Microsoft DNS Records

This workflow allows you to modify the record type, name, and other record details.

To modify a Microsoft DNS record:

1. In the **DNS Automation** section, under the **Microsoft DNS** catalog, hover your mouse over the **Modify Microsoft DNS Records** workflow and click .

The workflow execution page is displayed in the same tab with the workflow inputs requested at the first stage.

2. In the **Requester Details** section, in the **Team DL** field, enter the email addresses to which the domain registration email should be sent. Multiple email addresses must be entered as comma-separated values.



Note: The field information for the first two fields will be fetched automatically from the logged in user information.

3. In the **DNS Details** section, enter or select the required field information.

The following table describes the field information required here:


Field	Description
* DNS Provider	This is a read only field and displays the DNS Provider name (UltraDNS).
* Search Zone	Enter the search text/keywords for searching the Zones.
*: <i>Mandatory fields</i>	





4. Click **Search Zones**.

The values in the next fields in the **DNS Details** section will be populated based on the information provided in the above fields.

5. Enter or select the required field information in the remaining fields.

The following table describes the field information required here:


Field	Description
* Zone Name	Select the Zone Name from the options available in the dropdown list, to modify the record. <div style="border: 1px solid #00a0e3; border-radius: 10px; padding: 10px; background-color: #e6f2ff;">  Note: The values in this field will be fetched based on the search keywords entered in the previous fields. </div>
* DNS Provider Account	Select the DNS provider account from the options available in the dropdown.
All * marked fields are mandatory.	

6. In the **Record Details** section, enter or select the required field information.
7. To add the selected record details to the **Record Details** grid, click .
8. To edit the record details in the **Record Details** grid, select the row, modify the details, and click .
9. To delete a record detail, select the row to be deleted in the grid and click .
10. To maximize the **Record Details** grid, from the top right corner of the grid, click .
11. To search for a particular profile/application in the grid, type the keyword(s) in the search field.
12. Click **Submit**.

Deleting Microsoft DNS Records

You can delete a DNS record(s) and completely remove them from your zone file when it is no longer needed or the TTL (Time To Live) for the record expires.

To delete a Microsoft DNS record:

1. In the **DNS Automation** section, under the **Microsoft DNS** catalog, hover your mouse over the **Delete Microsoft DNS Records** workflow and click .
- The workflow execution page is displayed in the same tab with the workflow inputs requested at the first stage.
2. In the **Requester Details** section, in the **Team DL** field, enter the email addresses to which the domain registration email should be sent. Multiple email addresses must be entered as comma-separated values.



Note: The field information for the first two fields will be fetched automatically from the logged in user information.

- In the **DNS Details** section, enter or select the required field information.

The following table describes the field information required here:

Field	Description
* DNS Provider	This is a read only field and displays the DNS Provider name (UltraDNS).
* Search Zone	Enter the search text/keywords for searching the zones.
*: <i>Mandatory fields</i>	




- Click **Search Zones**.


The values in the next fields in the **DNS Details** section will be populated based on the information provided in the above fields.

- Enter or select the required field information in the remaining fields.

The following table describes the field information required here:

Field	Description
* Zone Name	Select the Zone Name from the options available in the dropdown list, to delete the record. <div data-bbox="462 1218 1421 1354" style="border: 1px solid #0070C0; border-radius: 10px; padding: 10px;"> <div data-bbox="479 1234 527 1285" data-label="Image"></div> <div data-bbox="532 1243 1308 1323" data-label="Text"> <p>Note: The values in this field will be fetched based on the search keywords entered in the previous fields.</p> </div> </div>
* DNS Provider Account	Select the DNS provider account from the options available in the dropdown.
*: <i>Mandatory fields</i>	

- In the **Record Details** section, enter or select the required field information.
- To add the selected record details to the **Record Details** grid, click the  (**Add**) icon.
- To edit the record details in the **Record Details** grid, select the row, modify the details, and click the  (**Pencil**) icon.
- To delete a record detail, select the row to be deleted in the grid and click the  (**Delete**) icon.

10. To maximize the **Record Details** grid, from the top right corner of the grid, click the  (**Expand**) icon.
11. To search for a particular profile/application in the grid, type the keyword(s) in the search field.
12. Click **Submit**.

Infoblox IPAM Automation Catalog

Workflows under this catalog are categorized under three headings:

- Create
 - Create Infoblox DNS records - Basic
- Modify
 - Modify Infoblox DNS records - Basic
 - Modify Infoblox DNS records - Advanced
- Delete
 - Delete Infoblox DNS records - Basic
 - Delete Infoblox DNS records - Advanced



Note: For more information on these workflows refer to the [ADC Automation Workflow User Guide](#).

Bluecat IPAM Automation Catalog

Workflows under this catalog are categorized under three headings:

- Create
 - Create Bluecat DNS records
- Modify
 - Modify Infoblox DNS records
- Delete
 - Delete Infoblox DNS records



Note: Note: For more information on these workflows refer to the [ADC Automation Workflow User Guide](#).



Viewing Service Requests

All the workflow requests triggered from the DDI+ module can be viewed in one place in the **Service Requests** section.

Request ID	Workflow	Created by	Created time	Last updated	Status	Ref. ID	Activity log
14	DNS Record Provisioning	admin	02/02/2023 18:34:19	02/02/2023 18:34:38	Completed		View
13	Domain Procurement	admin	02/02/2023 18:30:42	02/02/2023 18:32:32	Completed		View
12	DNS Record Provisioning	admin	02/02/2023 15:24:08	02/02/2023 15:24:31	Completed		View
11	DNS Record Provisioning	admin	02/02/2023 15:21:24	02/02/2023 15:21:57	Completed		View
10	Domain Procurement	admin	01/31/2023 15:34:40	01/31/2023 15:36:39	Completed		View
9	Domain Procurement	admin	01/31/2023 15:01:17	01/31/2023 15:03:16	Completed		View
8	Domain Procurement	admin	01/31/2023 14:59:08	01/31/2023 14:59:18	Failed		View
7	Domains Info Sync	admin	01/25/2023 17:41:00	01/25/2023 17:41:57	Completed		View
6	Domains Info Sync	admin	01/25/2023 17:35:52	01/25/2023 17:36:53	Completed		View
5	Domains Info Sync	admin	01/25/2023 17:33:35	01/25/2023 17:33:55	Failed		View
4	DNS Records Sync	admin	01/25/2023 16:12:53	01/25/2023 16:12:58	Failed		View
3	Domains Info Sync	admin	01/25/2023 11:10:22	01/25/2023 11:10:26	Failed		View
2	Domains Info Sync	admin	01/25/2023 11:08:47	01/25/2023 11:08:51	Failed		View
1	Modify_NAT_Rule	admin	01/25/2023 09:46:31	01/25/2023 09:46:34	Failed		View

This page displays the following information:

All requests	The total number of requests triggered for domain and DNS management.
Assigned requests	The total number of requests assigned to a particular user.
Open requests	The total number of open requests (requests that are still running) in DDI+ module.
Closed requests	The total number of closed requests (requests successfully triggered and completed) in DDI+ module.
Failed requests	The total number of failed requests (requests that did not execute successfully) in DDI+ module.

1. To see the stage-wise execution of a workflow, click on the **Request ID** for that workflow.
2. To clone a service request, select the request and click the  (**Clone**) icon from the command bar in the top right corner of the screen.
3. To refresh the page, from the command bar in the top right corner of the page, click the  (**Refresh**) icon.
4. To view the stage-wise summary and work order logs for each service request, under the **Activity log** column, click **View**.

Chapter 2: DDI+ Admin Guide

- [Setting up the Proxy](#)
- [Configuring the SMTP Settings](#)
- [Configuring Role Based Access Control](#)
- [Integration Hub](#)
- [Audits](#)
- [Settings](#)

Setting up the Proxy

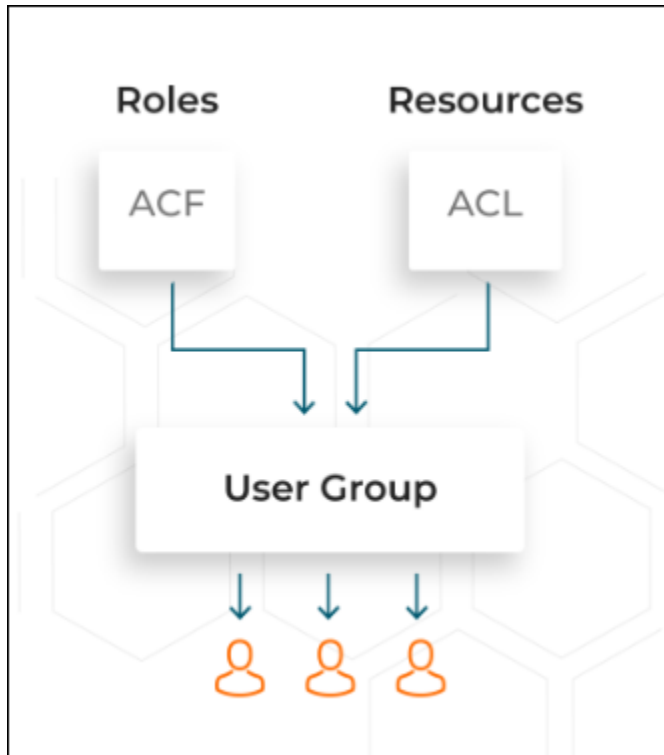
For steps on how to set up the proxy, refer to the [Platform User Guide](#).

Configuring the SMTP Settings

For steps on how to configure the SMTP settings, refer to the [Platform User Guide](#).


Configuring Role Based Access Control


AppViewX offers comprehensive support for Role and Resource-Based Access Control (RBAC). RBAC is a method of restricting AppViewX functions, network resources that can be managed and monitored in AppViewX based on the roles of individual users within an enterprise. It allows you to integrate with the existing identity stores such as Active Directory (AD) and Lightweight Directory Access Protocol (LDAP) to enforce authorization policies. Roles and resources can be customized to suit any organizational structure and user requirements.

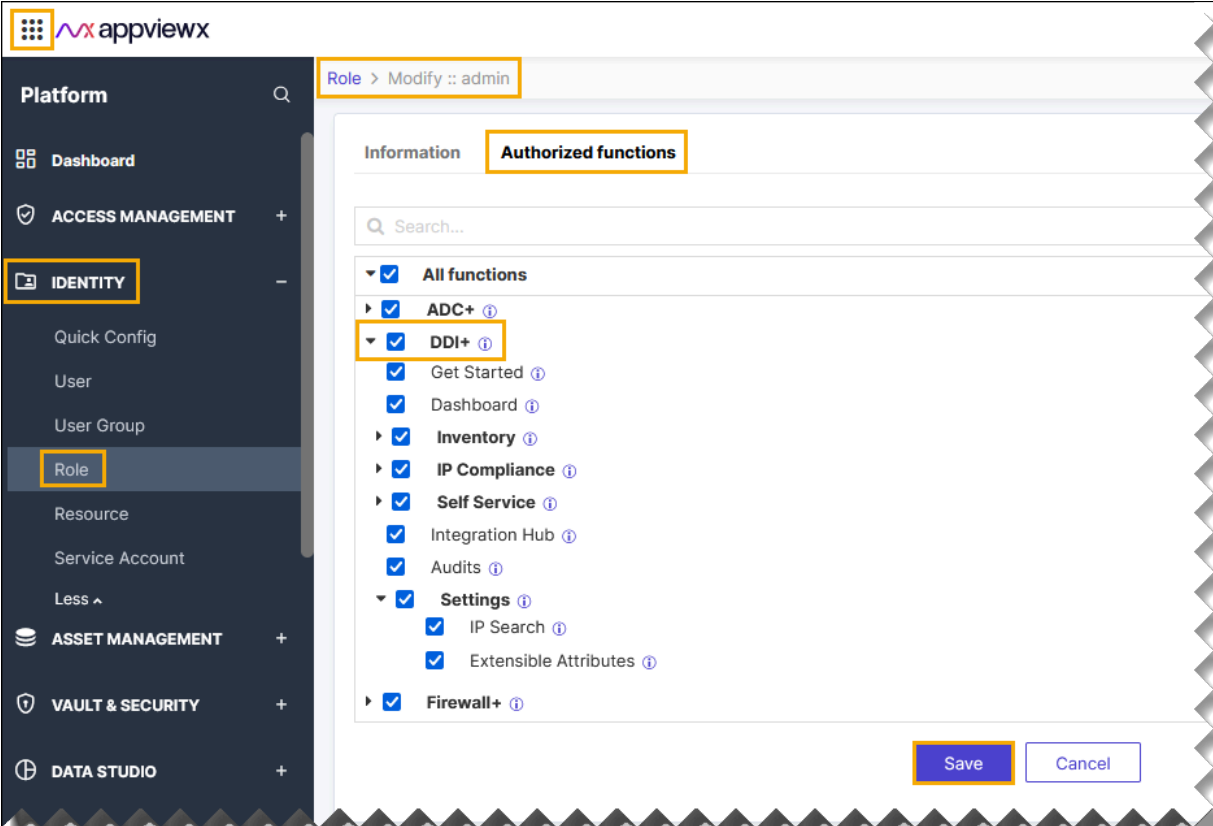


RBAC lets employees have access rights only to the AppViewX functions and network resources they need to do their jobs and prevents them from accessing information that doesn't pertain to them.

To get an overview of the actions authorized for a particular user in the DDI+ module:

New Menu	Old Menu
<p>In the Platform module, from the left pane, under IDENTITY, select Role.</p> <p>The Role page is displayed, with all the roles listed with their Name, Description, and Status.</p>	<p>From the main menu, select Account > Role.</p> <p>The Role page is displayed, with all the roles listed with their Name, Description, and Status.</p>
<p> Note: For more information on how to switch between menus, click here.</p>	

1. On the **Role** page, select a role from the dropdown list, for example **admin**.
2. To see the list of permissions that can be defined for this role, under the **Authorized Functions** tab, click  to expand **DDI**. A selected check-box indicates that the corresponding action has been authorized in the DDI+ module.

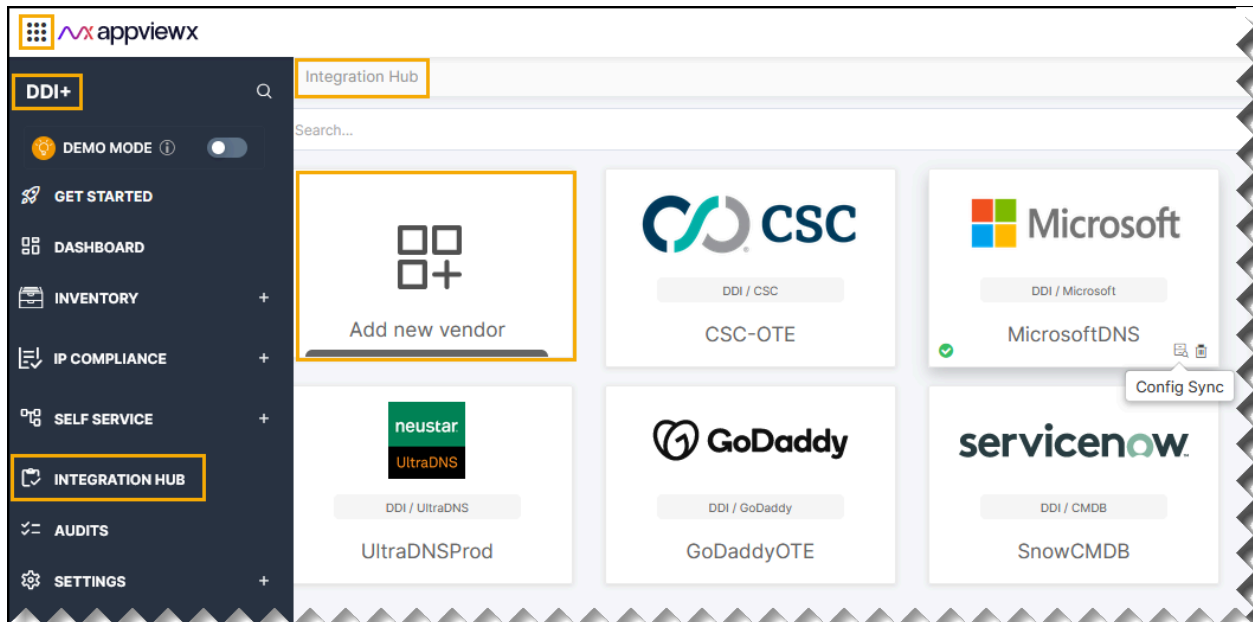


The following table describes the various actions that can be authorized or restricted in the **DDI+** module:

Action	Description
Get Started	Access to get started page of the DDI+ module.
Dashboard	Access to all the dashboards that are associated with the DDI+ module.
Inventory	Access to all the inventories that are associated with the DDI+ module.
IP Compliance	Access to IP compliance of DDI+ Module.
Self Service	Access to Self Service of DDI+ Module.
Integration Hub	Access to Integration Hub of DDI+ Module.
Audits	Access to Audits of DDI+ Module.
Settings	Access to Settings of DDI+ Module.

Integration Hub

The DDI+ Integration Hub allows users to seamlessly integrate enterprise domain registrars, DNS providers, IP Address Management (IPAM), and Configuration Management Database (CMDB) systems with the DDI+ platform. This streamlines the management of DNS infrastructure, providing centralized control through a unified interface.



- [Onboarding Domain Registrars](#)
- [Onboarding DNS providers and IPAM](#)
- [Onboarding CMDB](#)
- [Configuring Other Vendor](#)
- [Integration Hub Vendor Actions](#)

Onboarding Domain Registrars

Integrate one or multiple domain registrar accounts into DDI+ Integration Hub across various vendors.

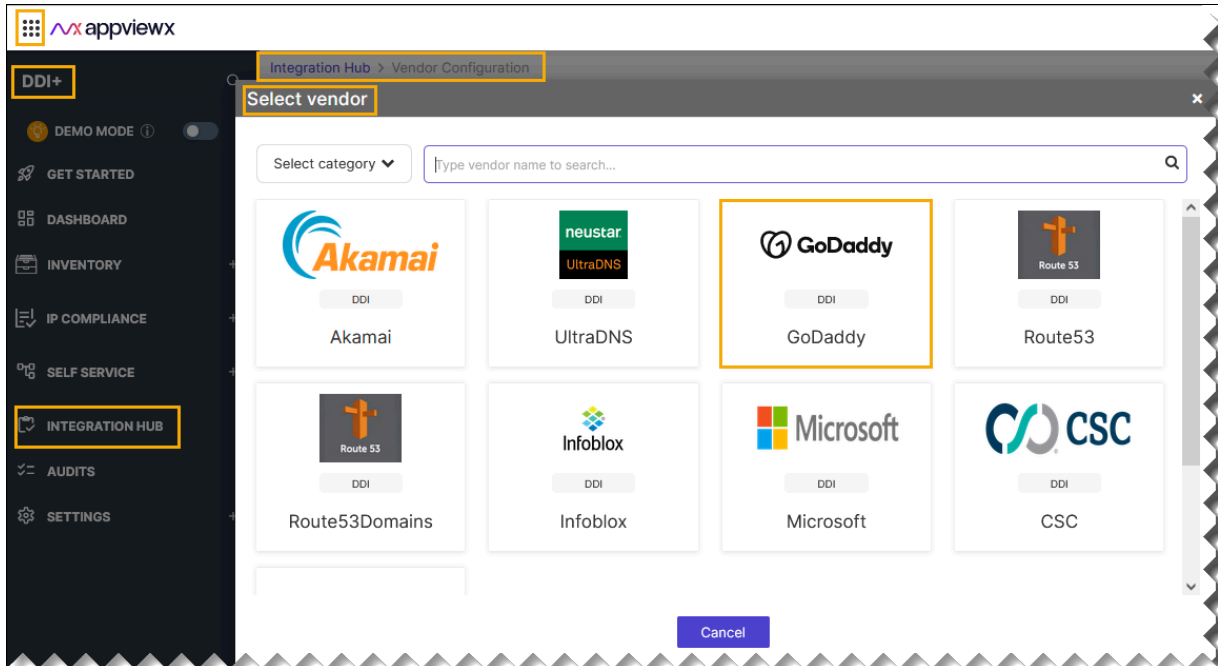
- [Configuring GoDaddy](#)
- [Configuring CSC](#)
- [Configuring Route53Domains](#)
- [Configuring Clouflare DNS](#)

Configuring GoDaddy

To configure GoDaddy:

1. Go to **DDI+ > INTEGRATION HUB**, and then click **Add new vendor**.

The **Select vendor** page is displayed.



2. On the **Select Vendor** page, click **GoDaddy**.
3. On the **Vendor Configuration** page, under the **Information** section, enter or select the required field information.

The following table describes the various fields in this section:

Field	Description
*Name	Enter a unique name to identify the vendor account which is being configured.
Description	Enter a description for the purpose of configuring this vendor, if required.
Data center	Select a data center from the options available in the dropdown list.
*: <i>Mandatory fields</i>	

4. On the **Vendor Configuration** page, under the **Credentials** section, enter or select the required field information.

The following table describes the various fields in this section:

Field	Description
Auth type	Displays the API Key method of authentication selected by default.
*Key	Enter the authorization key.
*Add to	Select Header from the dropdown list if not already selected.
*URL	Enter API URL for the vendor with the HTTPS/HTTP protocol.
*Value	Enter the authorization value.
*: <i>Mandatory fields</i>	

- 5. Enable **Config sync** for parsing the vendor
- 6. On the **Vendor Configuration** page, under the **Configurations** section, turn on the **Enable Advanced Config** toggle to add additional vendor configuration attributes.

```
1 {
2   "businessUnits": [
3     "Sales",
4     "Marketing",
5     "Finance"
6   ],
7   "consent": {
8     "aggrementKeys": [],
9     "aggredBy": ""
10  },
11  "domain_price_limit": 10,
12  "approver_email": "",
13  "nameServerConfig": [
14    {
15      "supported_domains": [],
16      "auto_fetch": false,
17      "vendor": "",
18      "vendor_account_name": "",
19      "nameservers": []
20    }
21  ],
22  "contacts": {
23    "contactAdmin": {
24      "addressMailing": {
25        "address1": ""
```

Sample Schema:

```
{
  "businessUnits": [
    "Sales",
    "Marketing",
    "Finance"
  ],
  "consent": {
```

```

"aggrementKeys": [
  "DNRA"
],
"aggredBy": "sample host/ip"
},
"domain_price_limit": 10,
"approver_email": "test@example.com",
"nameServerConfig": [
  {
    "supported_domains": [
      ".com",
      ".org",
      ".in",
      ".biz"
    ],
    "auto_fetch": false,
    "vendor": "",
    "vendor_account_name": "",
    "nameservers": [
      "test1.ns.com",
      "test2.ns.com"
    ]
  },
  {
    "supported_domains": [
      ".net",
      ".info"
    ],
    "auto_fetch": false,
    "vendor": "SampleVendor",
    "vendor_account_name": "SampleVendorAccount",
    "nameservers": []
  }
],
"contacts": {
  "contactAdmin": {
    "addressMailing": {

```

```
"address1": "Sample Address",
"address2": "Sample Address",
"city": "Sample City",
"country": "Sample Country",
"postalCode": "Sample Code",
"state": "Sample State"
},
"email": "test@example.com",
"fax": "",
"nameFirst": "Sample Name",
"nameLast": "Sample Name",
"organization": "Sample Organization",
"phone": "12346768990"
},
"contactBilling": {
  "addressMailing": {
    "address1": "Sample Address",
    "address2": "Sample Address",
    "city": "Sample City",
    "country": "Sample Country",
    "postalCode": "Sample Code",
    "state": "Sample State"
  },
  "email": "test@example.com",
  "fax": "",
  "nameFirst": "Sample Name",
  "nameLast": "Sample Name",
  "organization": "Sample Organization",
  "phone": "12346768990"
},
"contactRegistrant": {
  "addressMailing": {
    "address1": "Sample Address",
    "address2": "Sample Address",
    "city": "Sample City",
    "country": "Sample Country",
    "postalCode": "Sample Code",
```

```
    "state": "Sample State"
  },
  "email": "test@example.com",
  "fax": "",
  "nameFirst": "Sample Name",
  "nameLast": "Sample Name",
  "organization": "Sample Organization",
  "phone": "12346768990"
},
"contactTech": {
  "addressMailing": {
    "address1": "Sample Address",
    "address2": "Sample Address",
    "city": "Sample City",
    "country": "Sample Country",
    "postalCode": "Sample Code",
    "state": "Sample State"
  },
  "email": "test@example.com",
  "fax": "",
  "nameFirst": "Sample Name",
  "nameLast": "Sample Name",
  "organization": "Sample Organization",
  "phone": "12346768990"
}
},
"requestorMapping": {
  "requestor_email": "test@example.com"
}
}
```

The following table explains the strings in the JSON schema:

Strings	Description
aggreedBy	Originating client IP address of the end-user's computer when they consented to these legal agreements.

Strings	Description
aggrementKeys	Unique identifiers of the legal agreements to which the end-user has agreed, as returned from the /domains/agreements endpoint as DNRA.
domain_price_limit	The domain_price_limit field serves to establish a threshold price for domain registrations. If the cost of a domain surpasses the value set in domain_price_limit, explicit approval is mandated for the registration. If the domain's price falls below the domain_price_limit, no approval is necessary.
approver_email	The approver_email field is to trigger an email notification for approval when the price of a domain registration exceeds the specified domain_price_limit. If the cost surpasses this limit, an email is automatically sent to the designated approver for review and confirmation
nameServerConfig	The nameServerConfig field is configured to facilitate the automatic selection of nameservers based on predefined conditions during the domain registration process
supported_domains	explicitly define the list of Top-Level Domains (TLDs) permitted for use in the domain procurement process, particularly when configured nameservers are in use. Like [".com", ".net"]
auto_fetch	used to automatically retrieve the name server information from the configured name server account in AppViewX
vendor	The vendor field is to specify the DNS vendor from which the name server should be automatically fetched. This is applicable only if the auto fetch is true.
vendor_account_name	The vendor_account_name field is used to specify vendor account name configured in AppViewX, specifically for automatically fetching the nameserver. This configuration is applicable only when the auto_fetch flag is set to true
nameservers	The 'nameservers' string is utilized to indicate the list of all nameservers to be assigned during domain registration. This is relevant only when the 'auto_fetch' flag is set to false, as in: ["example1.ns.com", "example2.ns.com"].
*: <i>Mandatory fields</i>	

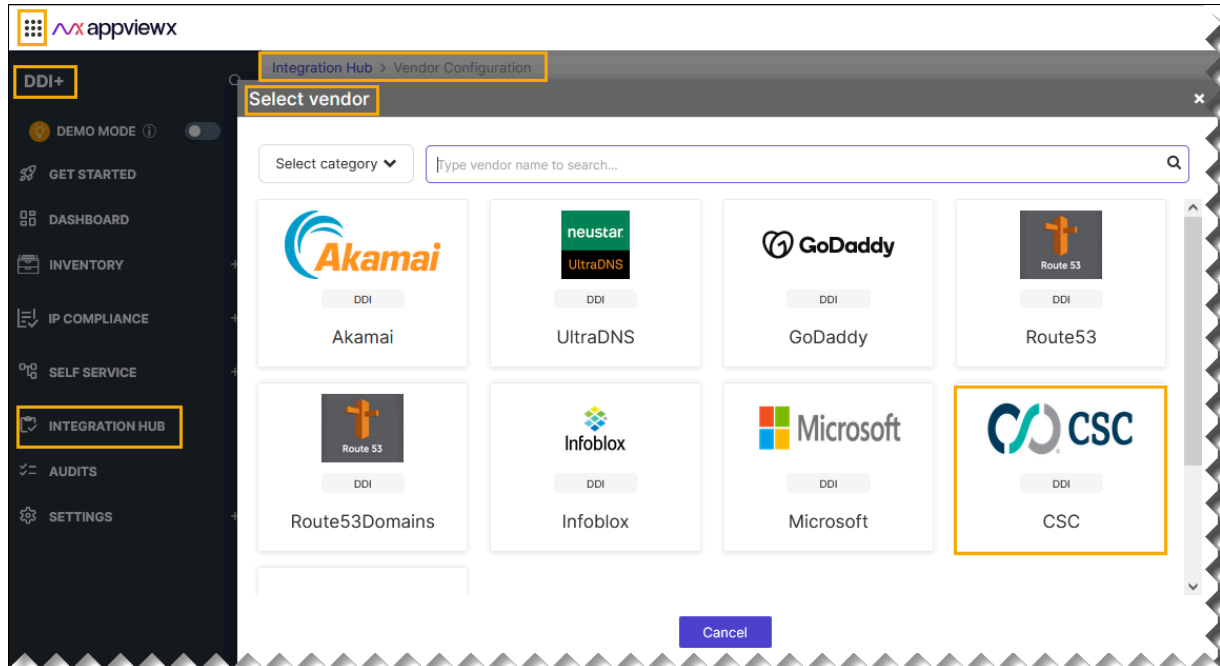
7. Click **Finish**.

Configuring CSC

To configure CSC:

1. Go to **DDI+ > INTEGRATION HUB**, and then click **Add new vendor**.

The **Select vendor** page is displayed.



2. On the **Select Vendor** page, click **CSC**.
3. On the **Vendor Configuration** page, under the **Information** section, enter or select the required field information.

The following table describes the various fields in this section:

Field	Description
*Name	Enter a unique name to identify the vendor account which is being configured.
Description	Enter a description for the purpose of configuring this vendor, if required.
Data center	Select a data center from the options available in the dropdown list.
*: <i>Mandatory fields</i>	

4. On the **Vendor Configuration** page, under the **Credentials** section, enter or select the required field information.

The following table describes the various fields in this section:

Field	Description
Auth type	Displays the API Key method of authentication selected by default.
*Key	Enter the authorization key.
*Add to	Select Header from the dropdown list if not already selected.
*URL	Enter API URL for the vendor with the HTTPS/HTTP protocol.
*Value	Enter the authorization value.
*Custom Header	Click the custom header radio button.
Custom Header Config	Enter the valid API key and its corresponding value.
*: <i>Mandatory fields</i>	

5. Enable **Config sync** for parsing the vendor
6. On the **Vendor Configuration** page, under the **Configurations** section, turn on the **Enable Advanced Config** toggle to add additional vendor configuration attributes.

```

1 {
2   "approver_email": "",
3   "CSCbusinessUnit": "",
4   "domain_price_limit": 10,
5   "businessUnits": [
6     "Sales",
7     "Marketing",
8     "Finance"
9   ],
10  "accountNumber": "",
11  "nameServerConfig": [
12    {
13      "supported_domains": [],
14      "auto_fetch": false,
15      "vendor": "",
16      "vendor_account_name": "",
17      "nameservers": []
18    }
19  ],
20  "whoisContacts": {
21    "registrantProfile": "",
22    "adminProfile": "",
23    "technicalProfile": ""
24  }
25 }

```

Sample Schema:

```

{
  "domain_price_limit": 10,
  "businessUnits": [
    "Sales",

```

```

"Marketing",
"Finance"
],
"CSCbusinessUnit": "Sample business Unit",
"accountNumber": 123455,
"nameServerConfig": [
{
"supported_domains": [
".com",
".org",
".in",
".biz"
],
"auto_fetch": false,
"vendor": "",
"vendor_account_name": "",
"nameservers": [
"test1.ns.com",
"test2.ns.com"
]
},
{
"supported_domains": [
".net",
".info"
],
"auto_fetch": false,
"vendor": "SampleVendor",
"vendor_account_name": "SampleVendorAccount",
"nameservers": []
}
],
"whoisContacts": {
"registrantProfile": "CSC Registrant",
"adminProfile": "CSC Admin",
"technicalProfile": "CSC Tech"
},

```

```

"notes": "sample text",
"notifications": {
  "enabled": false,
  "additionalNotificationEmails": [
    "test1@example.com",
    "test2@example.com"
  ]
},
"brand": "Sample text",
"redactPublicWhois": true,
"showPrice": true,
"customFields": [
  {
    "name": "Business Owner",
    "value": ""
  },
  {
    "name": "Comments",
    "value": ""
  }
],
"approver_email": "test@example.com"
}

```

The following table explains the strings in the JSON schema:

Strings	Description
CSCbusinessUnit	The business unit's code configured in CSC domain manager.
accountNumber	Account number provided by CSC Global.
registrantProfile	Profile name of registrar contact.
adminProfile	Profile name of admin contact.
technicalProfile	Profile name of Technical Contact.
notes	Provide decription for domain if needed
notifications > enabled	Send notifications to recipients if enabled.
additionalNotificationEmails	Provide recipients mail address if notification enabled.

Strings	Description
brand	Provide brand name if needed.
redactPublicWhois	If you want to conceal contact information from WHOIS queries. If you specify true, WHOIS ("who is") queries return contact information for CSC Global Registrar.
customFields	Name and value of the custom fields as defined in Domain Manager.
domain_price_limit	The domain_price_limit field serves to establish a threshold price for domain registrations. If the cost of a domain surpasses the value set in domain_price_limit, explicit approval is mandated for the registration. If the domain's price falls below the domain_price_limit, no approval is necessary.
approver_email	The approver_email field is to trigger an email notification for approval when the price of a domain registration exceeds the specified domain_price_limit. If the cost surpasses this limit, an email is automatically sent to the designated approver for review and confirmation.
nameServerConfig	The nameServerConfig field is configured to facilitate the automatic selection of nameservers based on predefined conditions during the domain registration process.
auto_fetch	Used to automatically retrieve the name server information from the configured name server account in AppViewX.
vendor	The vendor field is to specify the DNS vendor from which the name server should be automatically fetched. This is applicable only if the auto fetch is true.
vendor_account_name	The vendor_account_name field is used to specify vendor account name configured in AppViewX, specifically for automatically fetching the nameserver. This configuration is applicable only when the auto_fetch flag is set to true.
nameservers	The nameservers is used to specify the list of all the nameservers to be assigned during the domain registration. This is applicable only when the auto_fetch flag is set to false. like ["example1.ns.com", "example2.ns.com"].

Strings	Description
*: Mandatory fields	

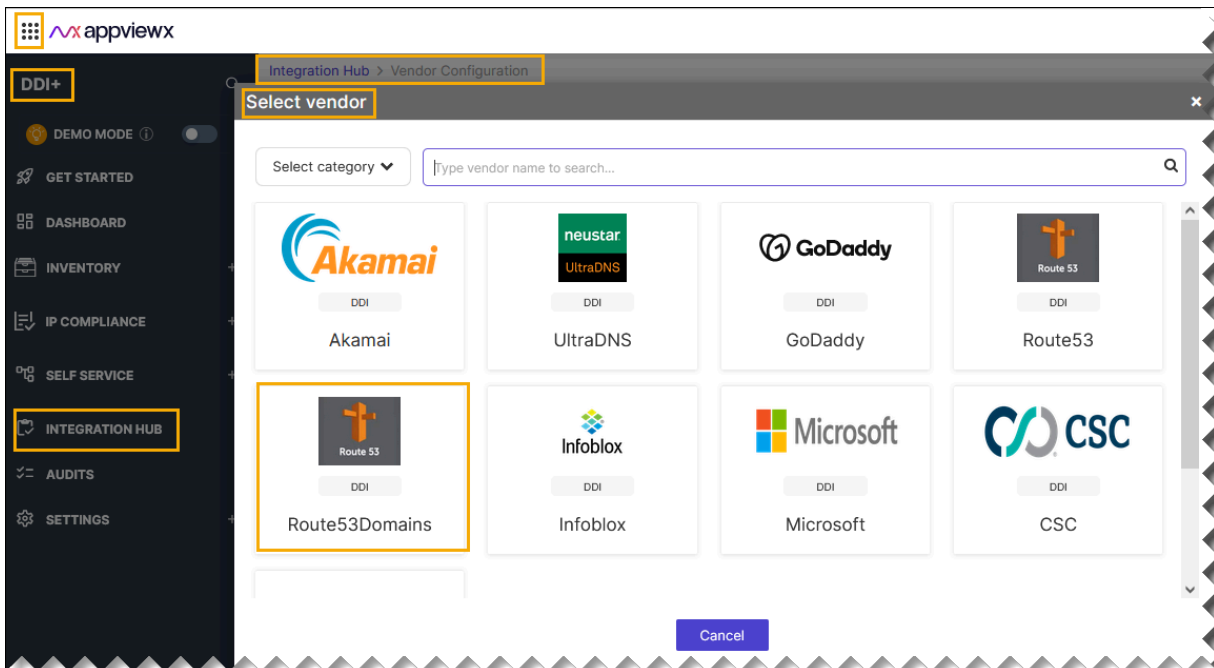
7. Click **Finish**.

Configuring Route53Domains

To configure Route53Domains:

1. Go to **DDI+ > INTEGRATION HUB**, and then click **Add new vendor**.

The **Select vendor** page is displayed.



2. On the **Select Vendor** page, click **Route53Domains**.

3. On the **Vendor Configuration** page, under the **Information** section, enter or select the required field information.

The following table describes the various fields in this section:

Field	Description
*Name	Enter a unique name to identify the vendor account which is being configured.
Description	Enter a description for the purpose of configuring this vendor, if required.
Data center	Select a data center from the options available in the dropdown list.

Field	Description
*: <i>Mandatory fields</i>	

4. On the **Vendor Configuration** page, under the **Credentials** section, enter or select the required field information.

The following table describes the various fields in this section:

Field	Description
Auth type	Displays the AWS signature method of authentication selected by default.
* Access Key	Enter the Access Key provided by route53domains.
* AWS Region	Enter the region which is receiving the request.
Session Token	Enter the session token which is only required when using temporary security credentials.
* URL	Enter API URL for the vendor with the HTTPS/HTTP protocol
* Secret Key	Enter the Secret Key provided by route53domains.
* Service Name	This field is filled by default. The service which is receiving a request.
*: <i>Mandatory fields</i>	

5. Enable **Config sync** for parsing the vendor
6. On the **Vendor Configuration** page, under the **Configurations** section, turn on the **Enable Config** toggle to add additional vendor configuration attributes.

```

1 {
2   "businessUnits": [
3     "Sales",
4     "Marketing",
5     "Finance"
6   ],
7   "domain_price_limit": 10,
8   "approver_email": "",
9   "nameServerConfig": [
10    {
11      "supported_domains": [],
12      "auto_fetch": true,
13      "vendor": "",
14      "vendor_account_name": "",
15      "nameservers": []
16    }
17  ],
18  "contacts": {
19    "AdminContact": {
20      "FirstName": "",
21      "MiddleName": "",
22      "LastName": "",
23      "ContactType": "",
24      "OrganizationName": "",
25      "Address": ""

```

Sample Schema:

```

{
  "businessUnits": [
    "Sales",
    "Marketing",
    "Finance"
  ],
  "domain_price_limit": 10,
  "approver_email": "test@example.com",
  "nameServerConfig": [
    {
      "supported_domains": [
        ".com",
        ".org",
        ".in",
        ".biz"
      ],
      "auto_fetch": false,
      "vendor": "",
      "vendor_account_name": "",
      "nameservers": [
        "test1.ns.com",

```

```
"test2.ns.com"
]
},
{
  "supported_domains": [
    ".net",
    ".info"
  ],
  "auto_fetch": false,
  "vendor": "SampleVendor",
  "vendor_account_name": "SampleVendorAccount",
  "nameservers": []
}
],
"contacts": {
  "AdminContact": {
    "FirstName": "Sample Name",
    "MiddleName": "Sample Name",
    "LastName": "Sample Name",
    "ContactType": "Sample Type",
    "OrganizationName": "Sample Organization",
    "AddressLine1": "Sample Address",
    "AddressLine2": "Sample Address",
    "City": "Sample City",
    "State": "Sample State",
    "CountryCode": "Sample Code",
    "ZipCode": "Sample Code",
    "PhoneNumber": "Sample Phone",
    "Email": "Sample Email",
    "Fax": "Sample Fax"
  },
  "RegistrantContact": {
    "FirstName": "Sample Name",
    "MiddleName": "Sample Name",
    "LastName": "Sample Name",
    "ContactType": "Sample Type",
    "OrganizationName": "Sample Organization",
```

```

"AddressLine1": "Sample Address",
"AddressLine2": "Sample Address",
"City": "Sample City",
"State": "Sample State",
"CountryCode": "Sample Code",
"ZipCode": "Sample Code",
"PhoneNumber": "Sample Phone",
"Email": "Sample Email",
"Fax": "Sample Fax"
},
"TechContact": {
  "FirstName": "Sample Name",
  "MiddleName": "Sample Name",
  "LastName": "Sample Name",
  "ContactType": "Sample Type",
  "OrganizationName": "Sample Organization",
  "AddressLine1": "Sample Address",
  "AddressLine2": "Sample Address",
  "City": "Sample City",
  "State": "Sample State",
  "CountryCode": "Sample Code",
  "ZipCode": "Sample Code",
  "PhoneNumber": "Sample Phone",
  "Email": "Sample Email",
  "Fax": "Sample Fax"
}
},
"PrivacyProtectAdminContact": true,
"PrivacyProtectRegistrantContact": true,
"PrivacyProtectTechContact": true
}

```

The following table explains the strings in the JSON schema:

Strings	Description
PrivacyProtectAdminContact	Whether you want to conceal contact information from WHOIS queries. If you specify true, WHOIS ("who is") queries return

Strings	Description
	contact information for the registrar, the phrase "REDACTED FOR PRIVACY", or "On behalf of domain name's owner."
PrivacyProtectRegistrantContact	Whether you want to conceal contact information from WHOIS queries. If you specify true, WHOIS ("who is") queries return contact information either for Amazon Registrar (for .com, .net, and .org domains) or for our registrar associate, Gandi (for all other TLDs). If you specify false, WHOIS queries return the information that you entered for the registrant contact (domain owner).
PrivacyProtectTechContact	Whether you want to conceal contact information from WHOIS queries. If you specify true, WHOIS ("who is") queries return contact information either for Amazon Registrar (for .com, .net, and .org domains) or for our registrar associate, Gandi (for all other TLDs). If you specify false, WHOIS queries return the information that you entered for the technical contact.
AdminContact	Provides detailed contact information.
RegistrantContact	Provides detailed contact information.
TechContact	Provides detailed contact information.
domain_price_limit	The domain_price_limit field serves to establish a threshold price for domain registrations. If the cost of a domain surpasses the value set in domain_price_limit, explicit approval is mandated for the registration. If the domain's price falls below the domain_price_limit, no approval is necessary.
approver_email	The approver_email field is to trigger an email notification for approval when the price of a domain registration exceeds the specified domain_price_limit. If the cost surpasses this limit, an email is automatically sent to the designated approver for review and confirmation
nameServerConfig	The nameServerConfig field is configured to facilitate the automatic selection of nameservers based on predefined conditions during the domain registration process

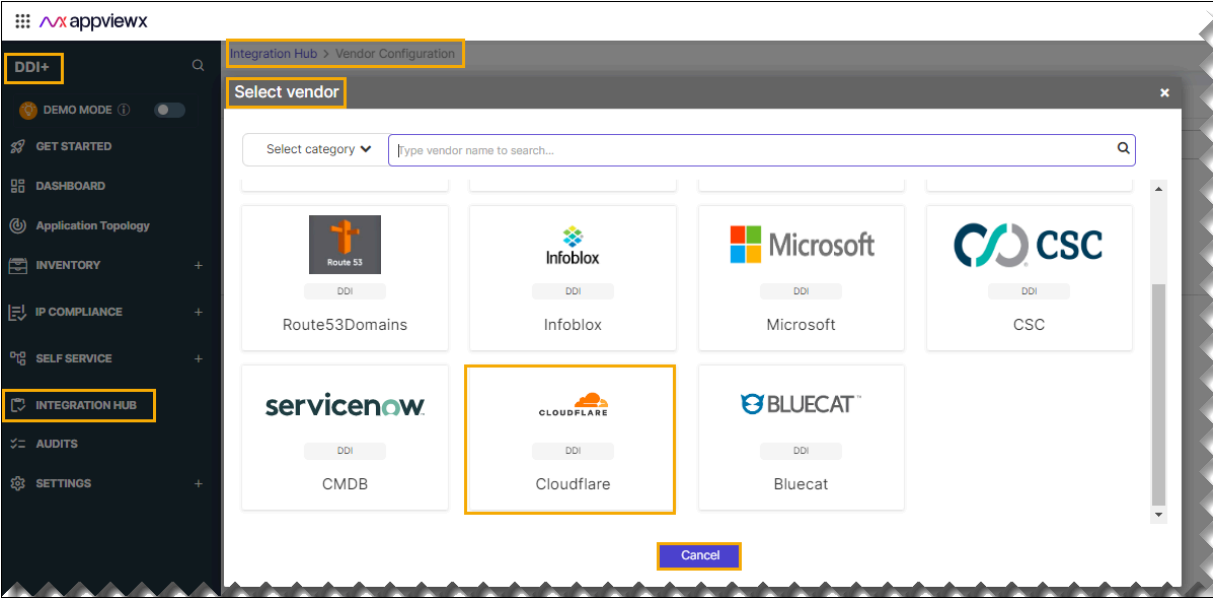
Strings	Description
supported_domains	Explicitly define the list of Top-Level Domains (TLDs) permitted for use in the domain procurement process, particularly when configured nameservers are in use. Like [".com", ".net"]
auto_fetch	The auto_fetch used to automatically retrieve the name server information from the configured name server account in AppViewX.
vendor	The vendor field is to specify the DNS vendor from which the name server should be automatically fetched. This is applicable only if the auto fetch is true.
vendor_account_name	The vendor_account_name field is used to specify vendor account name configured in AppViewX, specifically for automatically fetching the nameserver. This configuration is applicable only when the auto_fetch flag is set to true
nameservers	The nameservers is used to specify the list of all the nameservers to be assigned during the domain registration. This is applicable only when the auto_fetch flag is set to false. like ["example1.ns.com", "example2.ns.com"].
*: <i>Mandatory fields</i>	

7. Click **Finish**.

Configuring Cloudflare DNS

To configure Cloudflare DNS:

1. Go to **DDI+ > INTEGRATION HUB**, and then click **Add new vendor**.
The **Select vendor** page is displayed.



- 2. On the **Select Vendor** page, click **Cloudflare**.
- 3. On the **Vendor Configuration** page, under the **Information** section, enter or select the required field information.

The following table describes the various fields in this section:

Field	Description
*Name	Enter a unique name to identify the vendor account which is being configured.
Description	Enter a description for the purpose of configuring this vendor, if required.
Data center	Select a data center from the options available in the dropdown list.
*: <i>Mandatory fields</i>	

- 4. On the **Vendor Configuration** page, under the **Credentials** section, enter or select the required field information.

The following table describes the various fields in this section:

Field	Description
Auth type	Displays the Bearer Token method of authentication selected by default.
*URL	Enter API URL for the vendor with the HTTPS/HTTP protocol.
* Token	Enter the authentication URL to obtain an access token to authenticate Cloudflare APIs.

Field	Description
* Account ID	Enter the Cloudflare account ID for API integration
*: <i>Mandatory fields</i>	

5. Enable **Use Proxy** for the vendor.
6. Enable **Config sync** for parsing the vendor.
7. On the **Vendor Configuration** page, under the **Configurations** section, turn on the **Enable Advanced Config** toggle to add additional vendor configuration attributes.
8. Click **Finish**.

Onboarding DNS providers and IPAM

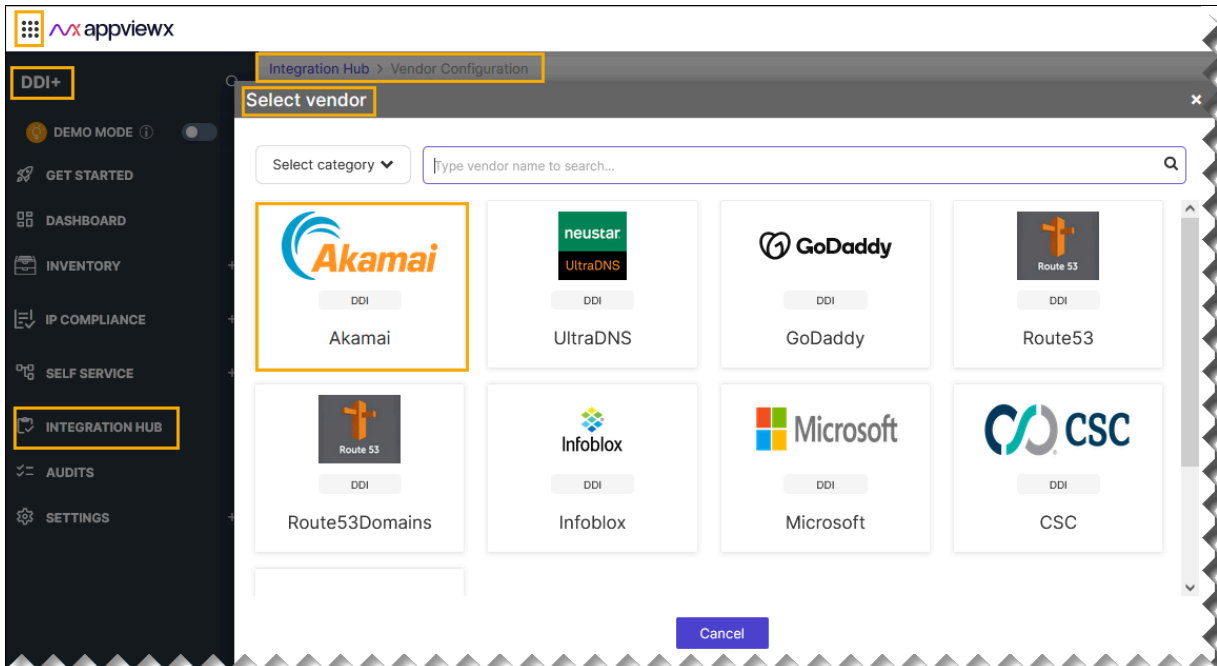
Integrate Managed and Private DNS vendors, as well as IPAM systems, into the DDI+ Integration Hub.

- [Configuring Akamai](#)
- [Configuring UltraDNS](#)
- [Configuring Route53](#)
- [Configuring Microsoft](#)
- [Configuring Infoblox](#)
- [Configuring Blucart](#)

Configuring Akamai

To configure Akamai:

1. Go to **DDI+ > INTEGRATION HUB**, and then click **Add new vendor**.
The **Select vendor** page is displayed.



2. On the **Select Vendor** page, click **Akamai**.
3. On the **Vendor Configuration** page, under the **General** section, enter or select the required field information.


The following table describes the various fields in this section:

Field	Description
*Name	Enter a unique name to identify the vendor account which is being configured.
Description	Enter a description for the purpose of configuring this vendor, if required.
Data center	Select a data center from the options available in the dropdown list.
*: <i>Mandatory fields</i>	

4. On the **Vendor Configuration** page, under the **Credentials** section, enter or select the required field information.

The following table describes the various fields in this section:

Field	Description
Auth type	Displays the Akamai EdgeGrid method of authentication selected by default.
*URL	Enter API URL for the vendor with the HTTPS/HTTP protocol.

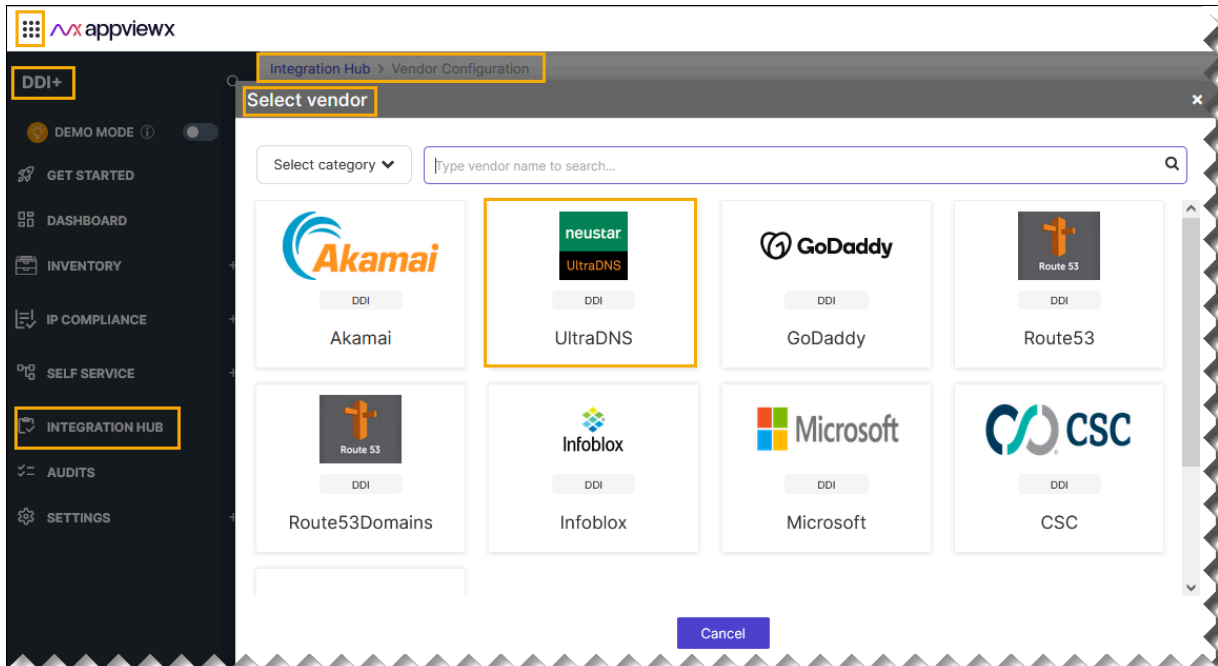
Field	Description										
*Access Token	Enter the Access token provided by Akamai.										
*Client Secret	Enter the Client secret provided by Akamai.										
*Client Token	Enter the Client token provided by Akamai.										
*Contract ID	Enter the Akamai contract id for API integration.										
Advanced Configs	<p>If you want to enter the more details click the advanced configs radio button.</p> <div style="border: 1px solid #00a0e3; border-radius: 10px; padding: 10px; margin: 10px 0;">  Note: Default values are automatically generated for some of these below fields unless values are explicitly entered. </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Fields</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>*Nonce</td> <td>Random string generated by the client.</td> </tr> <tr> <td>*Timestamp</td> <td>UTC time in such format as specified in the API client authentication section of the Akamai developer portal.</td> </tr> <tr> <td>*Base URL</td> <td>Enter the base URL, without the protocol.</td> </tr> <tr> <td>*Headers to sign</td> <td>Comma-separated list of headers needs to be signed.</td> </tr> </tbody> </table>	Fields	Description	*Nonce	Random string generated by the client.	*Timestamp	UTC time in such format as specified in the API client authentication section of the Akamai developer portal.	*Base URL	Enter the base URL, without the protocol.	*Headers to sign	Comma-separated list of headers needs to be signed.
Fields	Description										
*Nonce	Random string generated by the client.										
*Timestamp	UTC time in such format as specified in the API client authentication section of the Akamai developer portal.										
*Base URL	Enter the base URL, without the protocol.										
*Headers to sign	Comma-separated list of headers needs to be signed.										
*: Mandatory fields											

5. Enable **Config sync** for parsing the vendor
6. On the **Vendor Configuration** page, under the **Configurations** section, turn on the **Enable Config** toggle to add additional vendor configuration attributes.
7. Click **Finish**.

Configuring UltraDNS

To configure UltraDNS:

1. Go to **DDI+ > INTEGRATION HUB**, and then click **Add new vendor**.
The **Select vendor** page is displayed.



2. On the **Select Vendor** page, click **UltraDNS**.
3. On the **Vendor Configuration** page, under the **Information** section, enter or select the required field information.

The following table describes the various fields in this section:

Field	Description
*Name	Enter a unique name to identify the vendor account which is being configured.
Description	Enter a description for the purpose of configuring this vendor, if required.
Data center	Select a data center from the options available in the dropdown list.
*: <i>Mandatory fields</i>	

4. On the **Vendor Configuration** page, under the **Credentials** section, enter or select the required field information.

The following table describes the various fields in this section:

Field	Description
Auth type	Displays the OAuth 2.0 method of authentication selected by default.
*URL	Enter API URL for the vendor with the HTTPS/HTTP protocol.
*Username	Enter the valid username

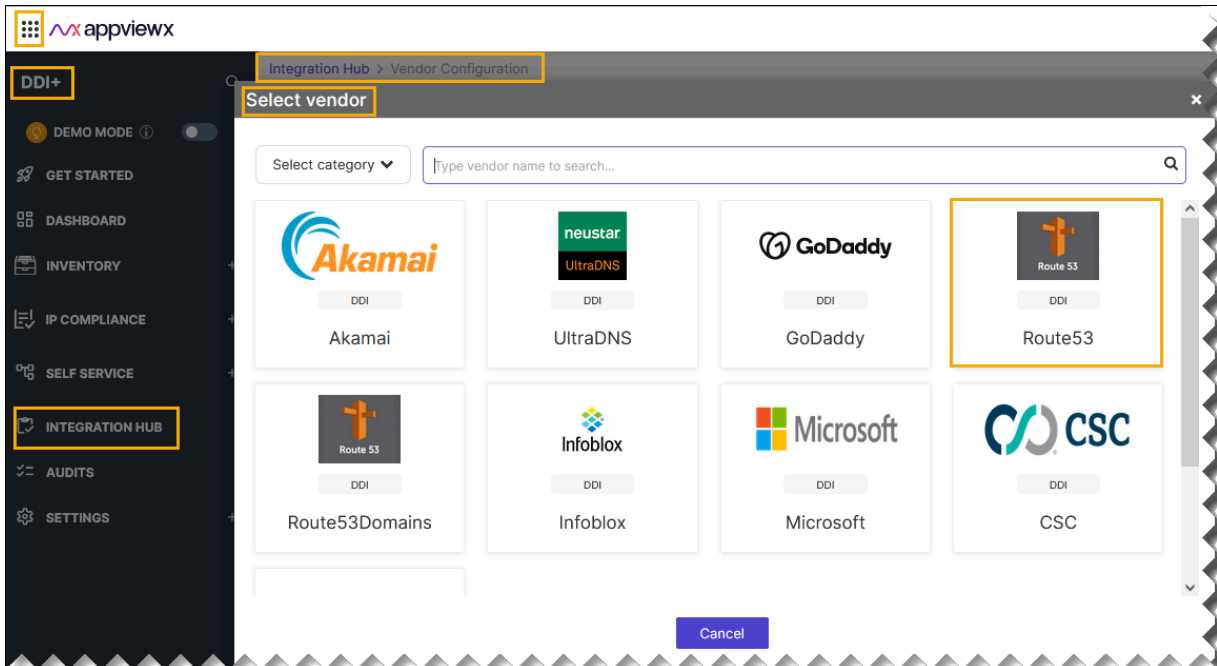
Field	Description
* Access Token URL	Enter the authentication URL to obtain an access token to authenticate UltraDNS APIs.
* Client ID	Enter the unique Client ID provided by UltraDNS.
* URL	Enter API URL for the vendor with the HTTPS/HTTP protocol.
* Password	Enter the valid password.
* Account Name	Enter the UltraDNS account name for API integration.
* Client Secret	Enter the client secret given provided by UltraDNS.
*: <i>Mandatory fields</i>	

5. Enable **Config sync** for parsing the vendor
6. On the **Vendor Configuration** page, under the **Configurations** section, turn on the **Enable Config** toggle to add additional vendor configuration attributes.
7. Click **Finish**.

Configuring Route53

To configure Route53:

1. Go to **DDI+ > INTEGRATION HUB**, and then click **Add new vendor**.
The **Select vendor** page is displayed.



2. On the **Select Vendor** page, click **Route53**.
3. On the **Vendor Configuration** page, under the **Information** section, enter or select the required field information.

The following table describes the various fields in this section:

Field	Description
*Name	Enter a unique name to identify the vendor account which is being configured.
Description	Enter a description for the purpose of configuring this vendor, if required.
Data center	Select a data center from the options available in the dropdown list.
*: <i>Mandatory fields</i>	

4. On the **Vendor Configuration** page, under the **Credentials** section, enter or select the required field information.

The following table describes the various fields in this section:

Field	Description
Auth type	Displays the AWS signature method of authentication selected by default.
*Access Key	Enter the Access Key provided by route53.
*AWS Region	Enter the region which is receiving the request.

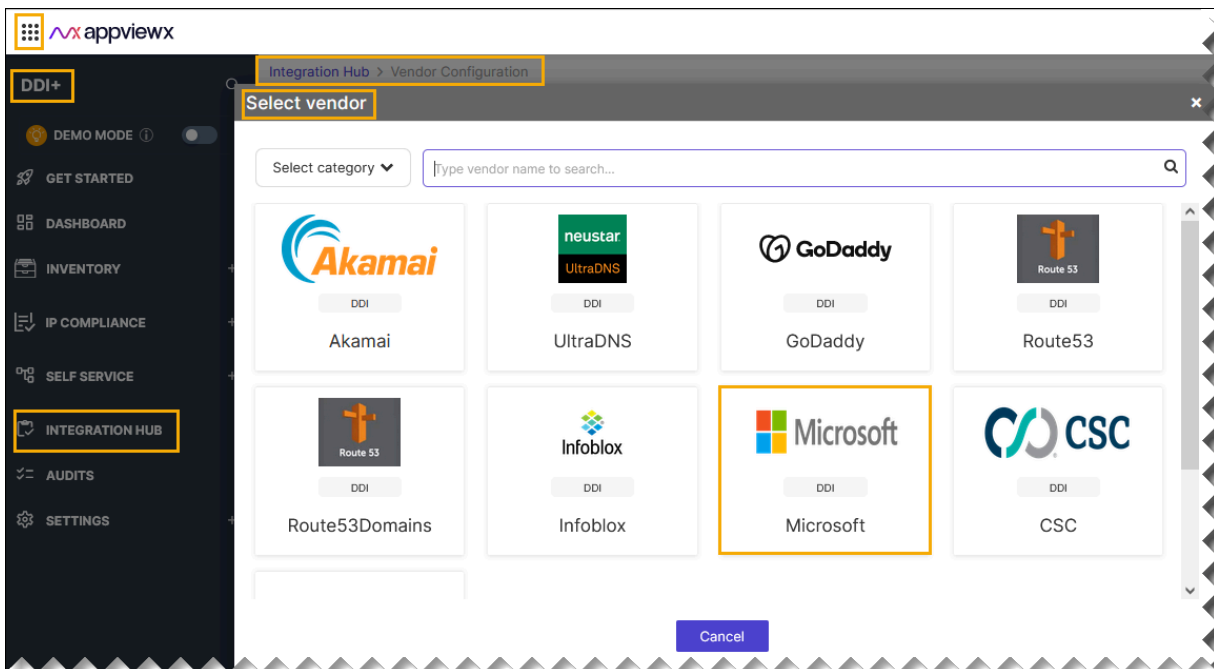
Field	Description
Session Token	Enter the session token which is only required when using temporary security credentials.
*URL	Enter API URL for the vendor with the HTTPS/HTTP protocol
*Secret Key	Enter the Secret Key provided by route53.
*Service Name	This field is filled by default. The service which is receiving a request.
*: Mandatory fields	

5. Enable **Config sync** for parsing the vendor
6. On the **Vendor Configuration** page, under the **Configurations** section, turn on the **Enable Advance Config** toggle to add additional vendor configuration attributes.
7. Click **Finish**.

Configuring Microsoft

To configure Microsoft:

1. Go to **DDI+ > INTEGRATION HUB**, and then click **Add new vendor**.
The **Select vendor** page is displayed.



2. On the **Select Vendor** page, click **Microsoft**.
3. On the **Vendor Configuration** page, under the **Information** section, enter or select the required field information.

The following table describes the various fields in this section:

Field	Description
*Name	Enter a unique name to identify the vendor account which is being configured.
Description	Enter a description for the purpose of configuring this vendor, if required.
Data center	Select a data center from the options available in the dropdown list.
*: <i>Mandatory fields</i>	

4. On the **Vendor Configuration** page, under the **Credentials** section, enter or select the required field information.

The following table describes the various fields in this section:

Field	Description
Auth type	Displays the Basic Auth method of authentication selected by default.
*Username	Enter the valid user name.
AD Account	Enable if the provided user credentials correspond to an Active Directory (AD) user. Otherwise, disable for a local user.
*Host Name	Enter the valid hostname or IP address.
*Passowrd	Enter the valid password.
Computer Names	If AD Account is enabled, provide multiple computer names separated by commas.
*: <i>Mandatory fields</i>	

5. Enable **Config sync** for parsing the vendor
6. Enable the **Traffic Monitoring** button for parsing the DNS queries of the vendor.



Note: If Traffic Monitoring is enabled, provide the log file path.

7. Enter the Log **File Path** for the traffic monitoring.



Note: To enable Traffic Monitoring in DDI+, it is necessary to obtain the debugging log from the Microsoft DNS server. The log file must be located in a shared folder, and user must have read access to this shared folder. This shared folder serves as the path through which the debugging log is retrieved for the Traffic Monitoring functionality in DDI+ platform.

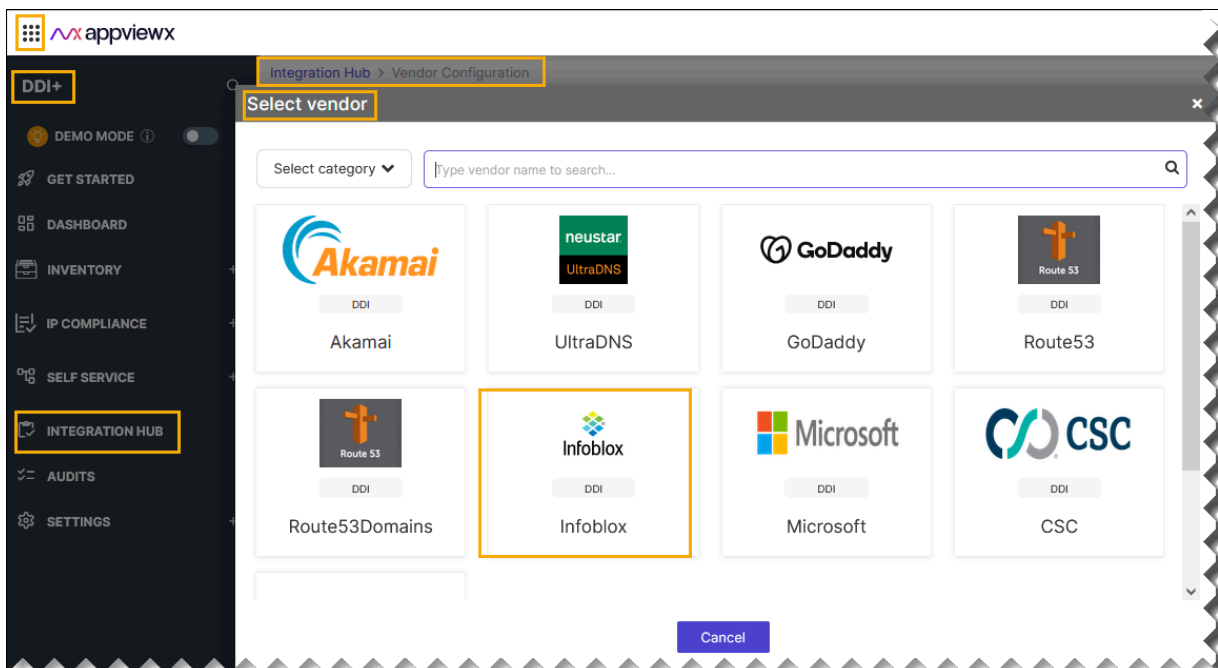
8. On the **Vendor Configuration** page, under the **Configurations** section, turn on the **Enable Advanced Config** toggle to add additional vendor configuration attributes if required.
9. Click **Finish**.

Configuring Infoblox

To configure Infoblox:

1. Go to **DDI+ > INTEGRATION HUB**, and then click **Add new vendor**.

The **Select vendor** page is displayed.



2. On the **Select Vendor** page, click **Infoblox**.
3. On the **Vendor Configuration** page, under the **Information** section, enter or select the required field information.

The following table describes the various fields in this section:

Field	Description
*Name	Enter a unique name to identify the vendor account which is being configured.
Description	Enter a description for the purpose of configuring this vendor, if required.
Data center	Select a data center from the options available in the dropdown list.
*: <i>Mandatory fields</i>	

4. On the **Vendor Configuration** page, under the **Credentials** section, enter or select the required field information.

The following table describes the various fields in this section:

Field	Description
Auth type	Displays the Basic Auth method of authentication selected by default.
*Username	Enter valid username.
*URL	Enter API URL for the vendor with the HTTPS/HTTP protocol.
*Passowrd	Enter the valid password.
*: <i>Mandatory fields</i>	

5. Enable **Sync IPAM** for parsing the IP Address Management (IPAM) data of the vendor.
6. Enable **Config sync** for parsing the vendor.
7. On the **Vendor Configuration** page, under the **Configurations** section, turn on the **Enable Advanced Config** toggle to add additional vendor configuration attributes.

```

1 {
2   "subnet": {
3     "advanced_fields": [
4       {
5         "fieldName": "dynamic_hosts",
6         "displayName": "Dynamic Hosts"
7       },
8       {
9         "fieldName": "authority",
10        "displayName": "Authority"
11      },
12      {
13        "fieldName": "ddns_ttl",
14        "displayName": "DNS update Time to Live"
15      },
16      {
17        "fieldName": "discover_now_status",
18        "displayName": "Discover Now Status"
19      },
20      {
21        "fieldName": "discovered_bgp_as",
22        "displayName": "Discovered Bgp As"
23      },
24    ]
25  }
26 }

```

Sample Schema:

```

{
  "subnet": {
    "advanced_fields": [
      {
        "fieldName": "dynamic_hosts",
        "displayName": "Dynamic Hosts"
      },
      {
        "fieldName": "authority",
        "displayName": "Authority"
      },
      {
        "fieldName": "ddns_ttl",
        "displayName": "DNS update Time to Live"
      },
      {
        "fieldName": "discover_now_status",
        "displayName": "Discover Now Status"
      },
      {
        "fieldName": "vlangs",

```

```

        "displayName": "Vlans"
    }
],
"supernet": {
    "sync": true,
    "advanced_fields": [
        {
            "fieldName": "utilization",
            "displayName": "Utilization"
        }
    ]
},
"ipv4address": {
    "advanced_fields": [
        {
            "fieldName": "discover_now_status",
            "displayName": "Discover Now Status"
        }
    ]
},
"ipam": {
    "classCLimit": 500,
    "classB1Limit": 4,
    "classB2Limit": 100,
    "ipPaginationLimit": 10000,
    "subnetPaginationLimit": 1000
},
"dns": {
    "recordsPaginationLimit": 1000,
    "zonesPaginationLimit": 1000,
    "zoneLimit": 500,
    "scriptApiLimit": 100
},
"custom_action": {
    "name": ""
}

```




```

}
}

```

The following table explains the strings in the JSON schema:

Strings	Description
subnet > advanced_fields	
dynamic_hosts	The total number of DHCP leases issued for a network refers to the count of unique IP addresses that have been dynamically assigned.
authority	The "authority" for a DHCP network typically refers to the entity responsible for managing and maintaining the DHCP server infrastructure.
ddns_ttl	The DNS update Time to Live (TTL) value of a DHCP network object.
discover _now_status	Current status of immediate discovery for this network.
discovered _bgp_as	Number of the discovered BGP AS.
discovered _vlan_id	Identifier of the discovered VLAN.
discovered _vlan_name	Name of the discovered VLAN.
discovered _vrf_description	Description of the discovered VRF.
discovered _vrf_name	Name of the discovered VRF.
discovered _vrf_rd	Route distinguisher of the discovered VRF.
discovery _engine_type	Network discovery engine type.
total_hosts	Total number of DHCP addresses configured in the network.
vlangs	List of VLANs assigned to Network.

Strings	Description
subnet > supernet > advanced_fields	
utilization	The network utilization in percentage.
ipv4address > advanced_fields	
discover _now_status	Current status of immediate discovery for this address.
classCLimit	Number of Class C subnets to be parsed in a single child request.  Note: If this number is reduced, number of child workflows will increase.
classB1Limit	Number of class B1 (/16 to /19) subnets to be parsed in a single child request.  Note: If this number is reduced, number of child workflows will increase.
classB2Limit	No of class B2 (/20 to /23) subnets to be parsed in a single child request.  Note: If this number is reduced, number of child workflows will increase.
ipPagination Limit	Number of IPAddresses to be fetched in a single Infoblox ipv4 API call.
subnet Pagination Limit	Number of Subnets to be fetched in a single Infoblox network API call.
records Pagination Limit	Number of Records to be fetched in a single Infoblox records API call.
zones Pagination Limit	Number of Zones to be fetched in a single Infoblox auth_zone API call.
scriptApiLimit	Number of records APIs to handle in a single script call.
custom	Custom workflow name to be triggered after the Infoblox sync is complete

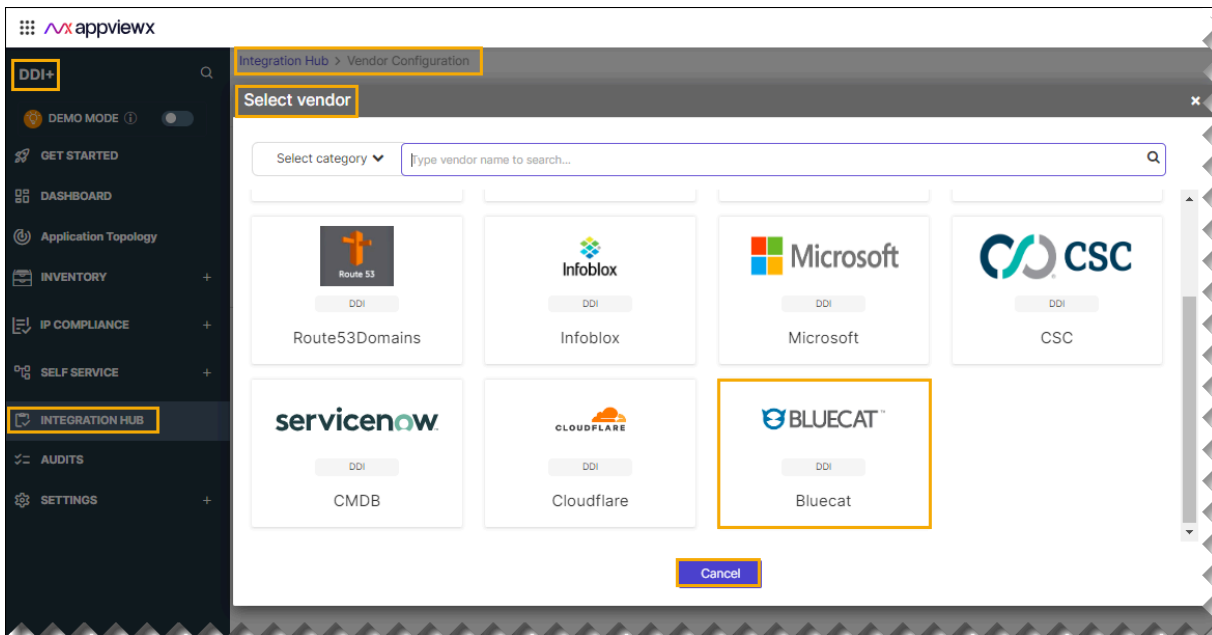
Strings	Description
_action > name	
*: Mandatory fields	

8. Select **CMDB Source** from the dropdown list to correlate IPAM data with the CMDB.
9. Click **Finish**.

Configuring Blucats

To configure Blucats

1. Go to **DDI+ > INTEGRATION HUB**, and then click **Add new vendor**.
The **Select vendor** page is displayed.



2. On the **Select Vendor** page, click **Blucats**.
3. On the **Vendor Configuration** page, under the **Information** section, enter or select the required field information.

The following table describes the various fields in this section:

Field	Description
*Name	Enter a unique name to identify the vendor account which is being configured.

Field	Description
Description	Enter a description for the purpose of configuring this vendor, if required.
Data center	Select a data center from the options available in the dropdown list.
*: <i>Mandatory fields</i>	

4. On the **Vendor Configuration** page, under the **Credentials** section, enter or select the required field information.

The following table describes the various fields in this section:

Field	Description
Auth type	Displays the Basic Auth method of authentication selected by default.
*Username	Enter valid username.
*URL	Enter API URL for the vendor with the HTTPS/HTTP protocol.
*Passowrd	Enter the valid password.
*Access Token URL	Enter the authentication URL to obtain an access token to authenticate Blucat APIs. For example, https://%3Ctest%3E.appviewx.net/Services/REST/v1/login
*API Version	Select the preferred API version from the dropdown list. By default v1 is selected.
*: <i>Mandatory fields</i>	

5. Enable **Sync IPAM** for parsing the IP Address Management (IPAM) data of the vendor.
6. Enable **Config sync** for parsing the vendor.
7. Enable **Sync DNS** for parsing the vendor.
8. On the **Vendor Configuration** page, under the **Configurations** section, turn on the **Enable Advanced Config** toggle to add additional vendor configuration attributes.


```
1 {
2   "ipam": {
3     "ipPaginationLimit": 10000,
4     "subnetPaginationLimit": 1000,
5     "asyncRequestCount": 4
6   },
7   "dns": {
8     "recordsPaginationLimit": 1000,
9     "asyncRequestCount": 4
10  },
11  "custom_action": {
12    "name": ""
13  }
14 }
```

Sample Schema:

```
{
  "ipam": {
    "ipPaginationLimit": 10000,
    "subnetPaginationLimit": 1000,
    "asyncRequestCount": 4
  },
  "dns": {
    "recordsPaginationLimit": 1000,
    "asyncRequestCount": 4
  },
  "custom_action": {
    "name": ""
  }
}
```

The following table explains the strings in the JSON schema:

Strings	Description
dns	The DNS update Time to Live (TTL) value of a DHCP network object.
recordPaginationLimit	CMDB Data Fetch Limit per Vendor API Call (For example, ServiceNow CMDB API Limit).

 **Note:** This API pagination limit specifies the number of CMDB records that can be retrieved in a single API call from ServiceNow.

Strings	Description
asyncRequest Count	AppViewX initiates parallel calls to devices to synchronize data. The asyncRequestCount specifies the number of simultaneous calls AppViewX can make at any given time.
ipPagination Limit	Number of IPAddresses to be fetched in a single Infoblox ipv4 API call.
subnet Pagination Limit	Number of Subnets to be fetched in a single Infoblox network API call.
asyncRequest Count	AppViewX initiates parallel calls to devices to synchronize data. The asyncRequestCount specifies the number of simultaneous calls AppViewX can make at any given time.
custom _action > name	Custom workflow name to be triggered after the Infoblox sync is complete
*: Mandatory fields	

9. Select **CMDB Source** from the dropdown list to correlate IPAM data with the CMDB.
10. Click **Finish**.

Onboarding CMDB

Integrate CMDB to discover IP assets and ensure compliance with IPAM and load balancer systems within the DDI+ platform.

- [Configuring ServiceNow](#)

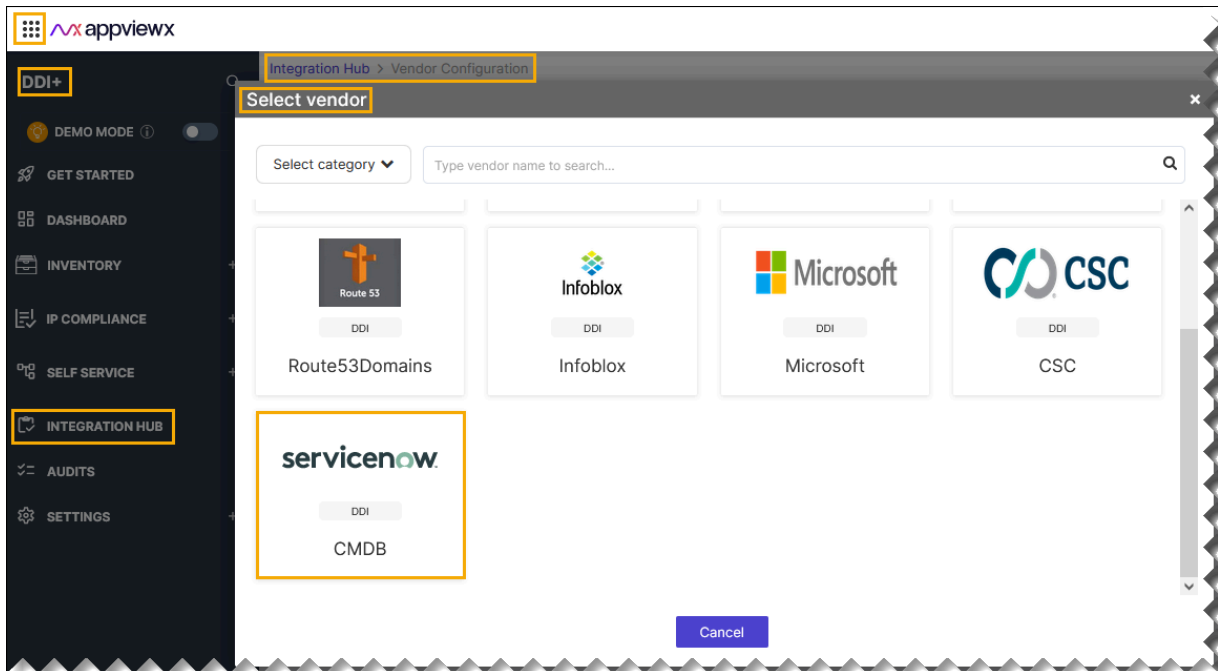
Configuring ServiceNow

To configure CMDB and sync the IP assets from the CMDB, DDI+ platform must be configured with tables in CMDB which have IP asset information. IP asset information and its associated data can be present in one or multiple tables.

To configure ServiceNow:

1. Go to **DDI+ > INTEGRATION HUB**, and then click **Add new vendor**.

The **Select vendor** page is displayed.



2. On the **Select Vendor** page, click **ServiceNow**.
3. On the **Vendor Configuration** page, under the **Information** section, enter or select the required field information.

The following table describes the various fields in this section:

Field	Description
*Name	Enter a unique name to identify the vendor account which is being configured.
Description	Enter a description for the purpose of configuring this vendor, if required.
Data center	Select a data center from the options available in the dropdown list.
*: <i>Mandatory fields</i>	

4. On the **Vendor Configuration** page, under the **Credentials** section, enter or select the required field information.

The following table describes the various fields in this section:

Field	Description
Auth type	Displays the Basic Auth method of authentication selected by default.

Field	Description
* Username	Enter valid username.
* URL	Enter API URL for the vendor with the HTTPS/HTTP protocol.
* Password	Enter the valid password.
*: <i>Mandatory fields</i>	

5. Enable **Config sync** for parsing the vendor
6. On the **Vendor Configuration** page, under the **Configurations** section, turn on the **Enable Advanced Config** toggle to add additional vendor configuration attributes.

```

1 {
2   "cmdbSource": {
3     "tables": [
4       {
5         "type": "ASSET",
6         "table_name": "cmdb_ci_ip_address",
7         "url": "/api/now/table/cmdb_ci_ip_address",
8         "fields": [
9           {
10          "fieldName": "ip_address",
11          "displayName": "IP Address",
12          "unique": true
13        },
14        {
15          "fieldName": "fqdn",
16          "displayName": "FQDN"
17        },
18        {
19          "fieldName": "asset_tag",
20          "displayName": "Asset Tag"
21        },
22        {
23          "fieldName": "sys_created_by",
24          "displayName": "Created By"

```

Sample Schema:

```

{
  "avxPaginationLimit": 10000,
  "paginationLimit": 10000,
  "deltaSync": true,
  "orphanIP": {
    "condition": "ALL",
    "dataFields": [
      "ITAM ID",
      "Owned By"
    ]
  },



```

```
"tables": [  
  {  
    "type": "ASSET",  
    "table_name": "cmdb_ip_address",  
    "url": "/api/now/table/cmdb_ci_ip_address",  
    "fields": [  
      {  
        "fieldName": "ip_address",  
        "displayName": "IP Address",  
        "unique": true  
      },  
      {  
        "fieldName": "asset_tag",  
        "displayName": "ITAM ID"  
      },  
      {  
        "fieldName": "subcategory",  
        "displayName": "Sub Category"  
      },  
      {  
        "fieldName": "short_description",  
        "displayName": "Technology Stack"  
      },  
      {  
        "fieldName": "category",  
        "displayName": "Category"  
      },  
      {  
        "fieldName": "operational_status",  
        "displayName": "Operation Status"  
      },  
      {  
        "fieldName": "owned_by",  
        "displayName": "Owned By"  
      },  
      {  
        "fieldName": "business_unit",
```

```
"displayName": "Business Unit"
},
{
  "fieldName": "install_status",
  "displayName": "Installation Status"
},
{
  "fieldName": "vendor",
  "displayName": "Vendor"
}
]
},
{
  "type": "META",
  "table_name": "cmdb_ci_service_discovered",
  "url": "/api/now/table/cmdb_ci_service_discovered",
  "fields": [
    {
      "fieldName": "operational_status",
      "displayName": "Operational Status"
    },
    {
      "fieldName": "number",
      "displayName": "Number"
    },
    {
      "fieldName": "used_for",
      "displayName": "Used for"
    },
    {
      "fieldName": "process_status",
      "displayName": "Process Status"
    },
    {
      "fieldName": "service_status",
      "displayName": "Service Status"
    },
  ]
}
```

```
{
  "fieldName": "busines_criticality",
  "displayName": "Business Criticality"
},
{
  "fieldName": "managed_by",
  "displayName": "Managed By"
},
{
  "fieldName": "vendor",
  "displayName": "Vendor"
},
{
  "fieldName": "assigned_to",
  "displayName": "Assinged To"
},
{
  "fieldName": "asset_tag",
  "displayName": "Asset Tag",
  "correlationField": "ITAM ID"
},
{
  "fieldName": "install_status",
  "displayName": "Installation Name"
},
{
  "fieldName": "name",
  "displayName": "App Service Name"
},
{
  "fieldName": "location",
  "displayName": "Location"
}
]
}
]
```

The following table explains the strings in the JSON schema:

Strings	Description
avxPaginationLimit	<p>CMDB Data Fetch within AppViewX.</p> <div style="border: 1px solid #0070c0; border-radius: 10px; padding: 10px; margin-top: 10px;">  Note: This pagination limit specifies the number of records processed in each pagination cycle, crucial for establishing a correlation within AppViewX between CMDB and IP data. </div>
paginationLimit	<p>CMDB Data Fetch Limit per Vendor API Call (For example, ServiceNow CMDB API Limit).</p> <div style="border: 1px solid #0070c0; border-radius: 10px; padding: 10px; margin-top: 10px;">  Note: This API pagination limit specifies the number of CMDB records that can be retrieved in a single API call from ServiceNow. </div>
deltaSync	<p>This is a boolean value true/false.</p> <p>True: After the initial synchronization, AppViewX will only sync the changes that have been updated in the CMDB since the last configuration fetch.</p> <p>False: At config sync all the CMDB tables data will be fetched.</p>
orphanIP	OrphanIP setting is to identify orphan IPs based on certain conditions.
condition	<p>ALL - All Specified fields should have data else the IP will be considered as orphan.</p> <p>ANYONE - Any one specified field should have data else the IP will be considered as orphan.</p>
dataFields	List of CMDB Data Fields need to be validated for Orphan IP Logic; Enter the displayLable name for the fields.
tables	List of CMDB Tables data need to be synced.
type	<p>Type of Table Data:</p> <ul style="list-style-type: none"> • ASSET - CMDB Asset Data • META - Meta Data of Asset.
table_name	Table name of the data needs to be synced.
url	URL to fetch the data from the given asset table.
fields	List of field names from the CMDB table to synced .

Strings	Description
fieldName	Field name from CMDB Table data.
displayName	Display name for the field in AppViewX.
unique	Whether field must be considered for data uniqueness or not. The possible value True (or) False.
correlationField	This configuration specific to CMDB meta data tables config. Link field data between asset table and meta table.
*: <i>Mandatory fields</i>	

7. Click **Finish**.

Configuring Other Vendor

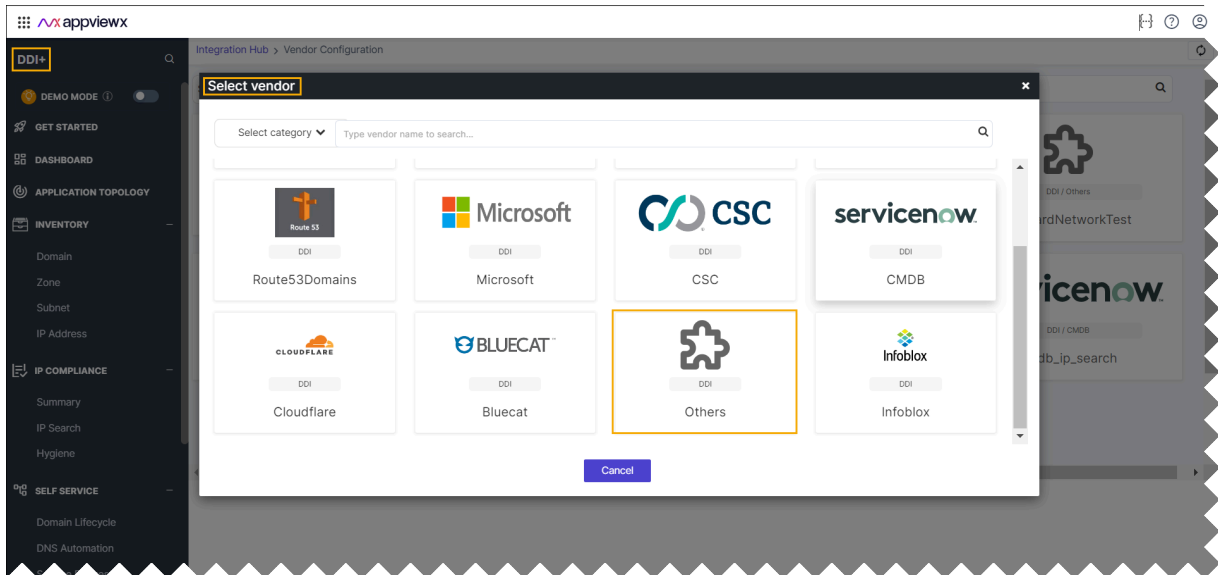
Integrate custom sources that maintain IP address details with AppViewX to sync IP-related information into the database. This IP data can then be correlated with DNS providers, IPAM information, ServiceNow, and other systems.

Prerequisites:

Before you configure other vendor, ensure you created a custom workflow to sync the data from the vendor into DDI+ custom collection.

To configure other vendor:

1. Go to **DDI+ > INTEGRATION HUB**, and then click **Add new vendor**.
The **Select vendor** page is displayed.



2. On the **Select Vendor** page, click **Others**.
3. On the **Vendor Configuration** page, under the **Information** section, enter or select the required field information.

The following table describes the various fields in this section:


General - Field and Description Table

Field	Description
*Name	Enter a unique name to identify the vendor account which is being configured.
Description	Enter a description for the purpose of configuring this vendor, if required.
Data center	Select a data center from the options available in the dropdown list.
*Vendor	Enter the vendor name.
*: <i>Mandatory fields</i>	

4. Click **Next**.
5. On the **Vendor Configuration** page, under the **Credentials** section, enter or select the required field information.

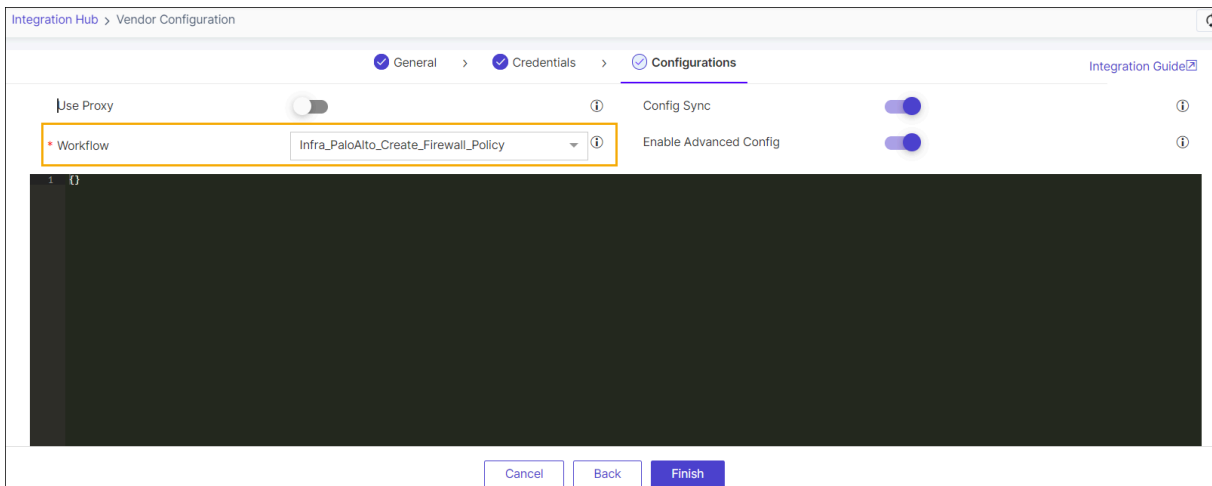
The following table describes the various fields in this section:

Credentials - Field and Description Table

Field	Description
*Auth type	Displays the Basic Auth method of authentication selected by default. Select a desired authentication type from the dropdown list. <div style="border: 1px solid #00a0e3; border-radius: 10px; padding: 10px; background-color: #e6f2ff;">  Note: Based on the Auth type selection, you will need to enter the the auth-related fields. </div>
*URL	Enter API URL for the vendor with the HTTPS/HTTP protocol.
*: <i>Mandatory fields</i>	

6. Click **Next**.

7. On the **Vendor Configuration** page, under the **Configurations** tab, select a custom workflow from the **Workflow** dropdown list.



This workflow initiates the process of adding data into DDI+.

8. Click **Finish**.

It takes a while sync the data into DDI+. You can view the data in IP Search, after you configure the custom source in the IP search settings.



Note: You need to add an entry for the custom source to the `ddi_settings_collection` within the `IP_Search_Settings` document in the sources. This will enable data synchronization in IP Search.

Whats Next

IP Search

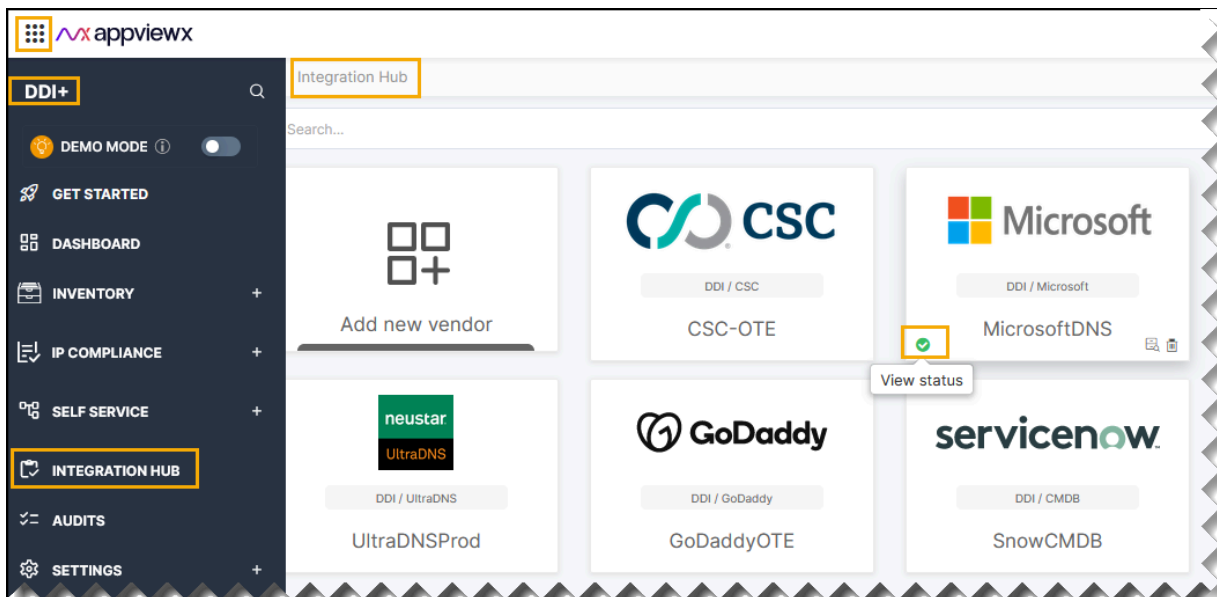
Integration Hub Vendor Actions

For each vendor on-board in the integration hub, the following actions can be performed when you hover over the vendor tile.

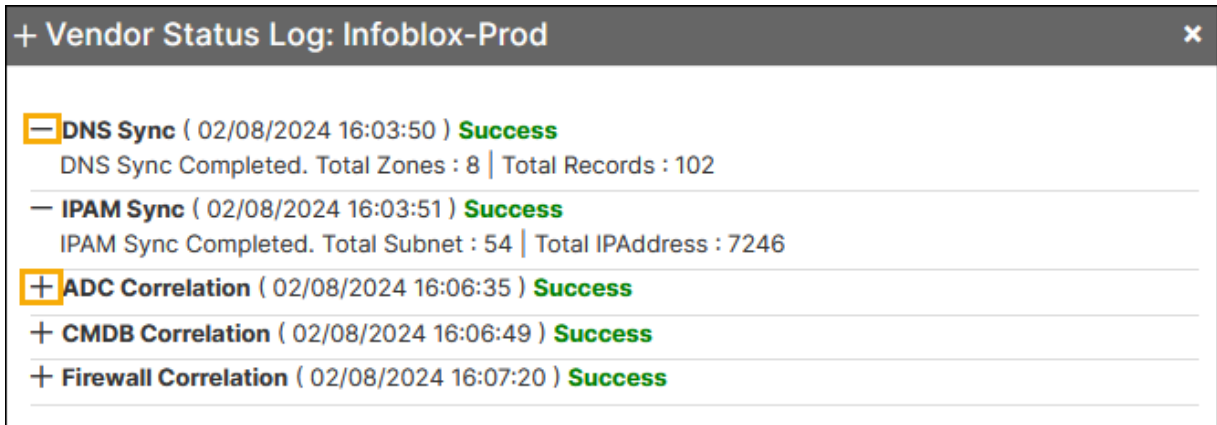
Viewing Status

To view status of the configuration sync when a vendor is on-boarded or triggered manually, perform the following steps.

1. Go to **DDI+ > INTEGRATION HUB**, and then click the **View status** icon on the vendor.



The Vendor Status Log window is displayed.

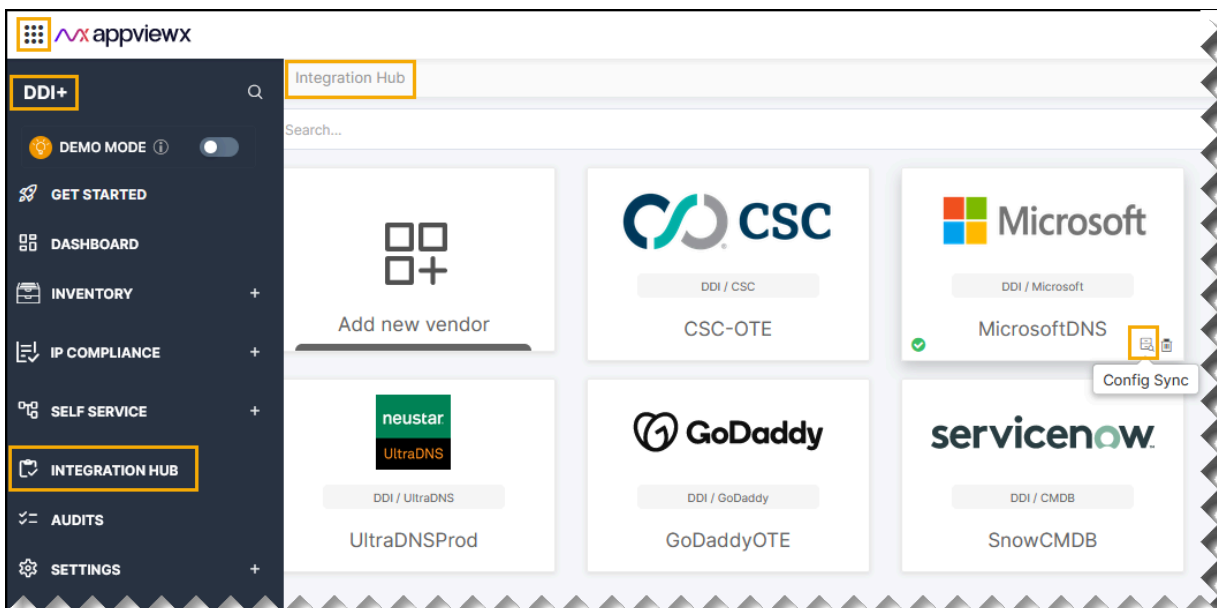


2. Click the (+) maximize icon that you want to view the status log.
3. Click the (-) minimize icon that you want to view the status log.

Triggering Config Sync

Users can manually trigger the config sync by clicking the **Config sync** button. To trigger the config sync, perform the following steps.

1. Go to **DDI+ > INTEGRATION HUB**, and then click the **Config sync** icon on the vendor.

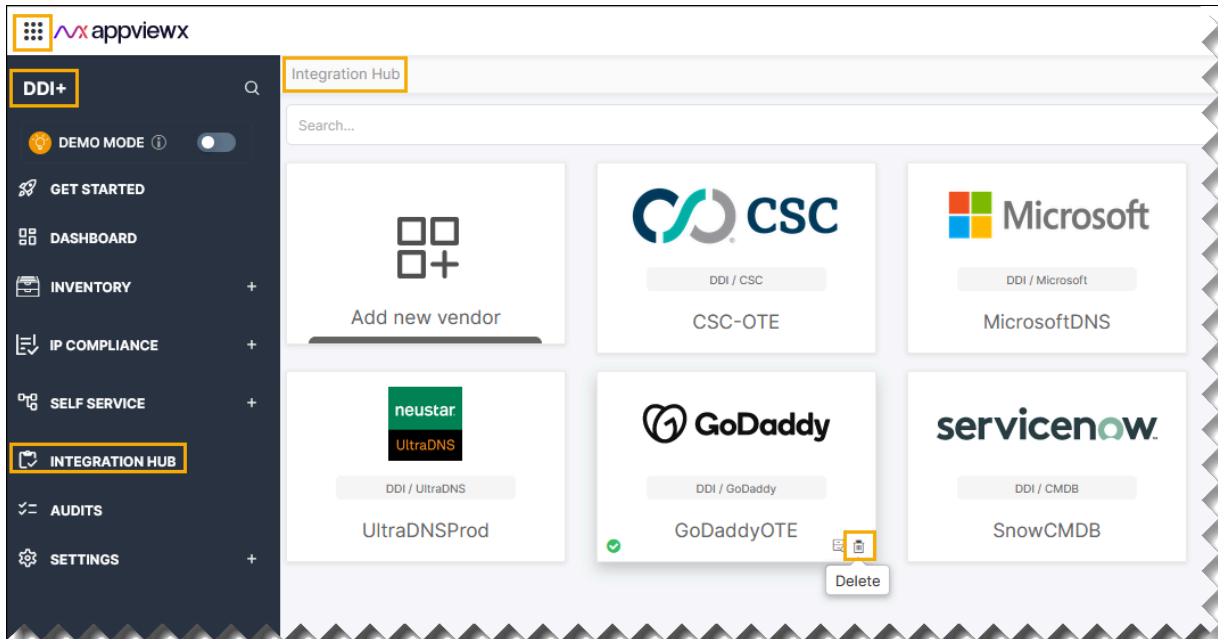


2. The pop-up message is displayed as **Operation performed successfully**.

Deleting Vendor

To delete the vendors and its associated configuration from AppViewX, perform the following steps.

1. Go to **DDI+ > INTEGRATION HUB**, and then click the **Delete** icon on the vendor.



2. The pop-up message is displayed as **Do you want to delete the vendor configuration ?**.
3. Click **OK**
4. The pop-up message is displayed as **Operation performed successfully**.

Audits

This section displays all the audit logs related to DDI+. Different severity levels are displayed for the audit logs within this section.

Settings

The DDI+ settings enable you to customize the IP Search functionality and Extensible Attributes feature, which are reflected in the dashboard interface.

- IP Search
- Extensible Attributes.
- [IP Search Settings](#)
- [Extensible Attributes Settings](#)

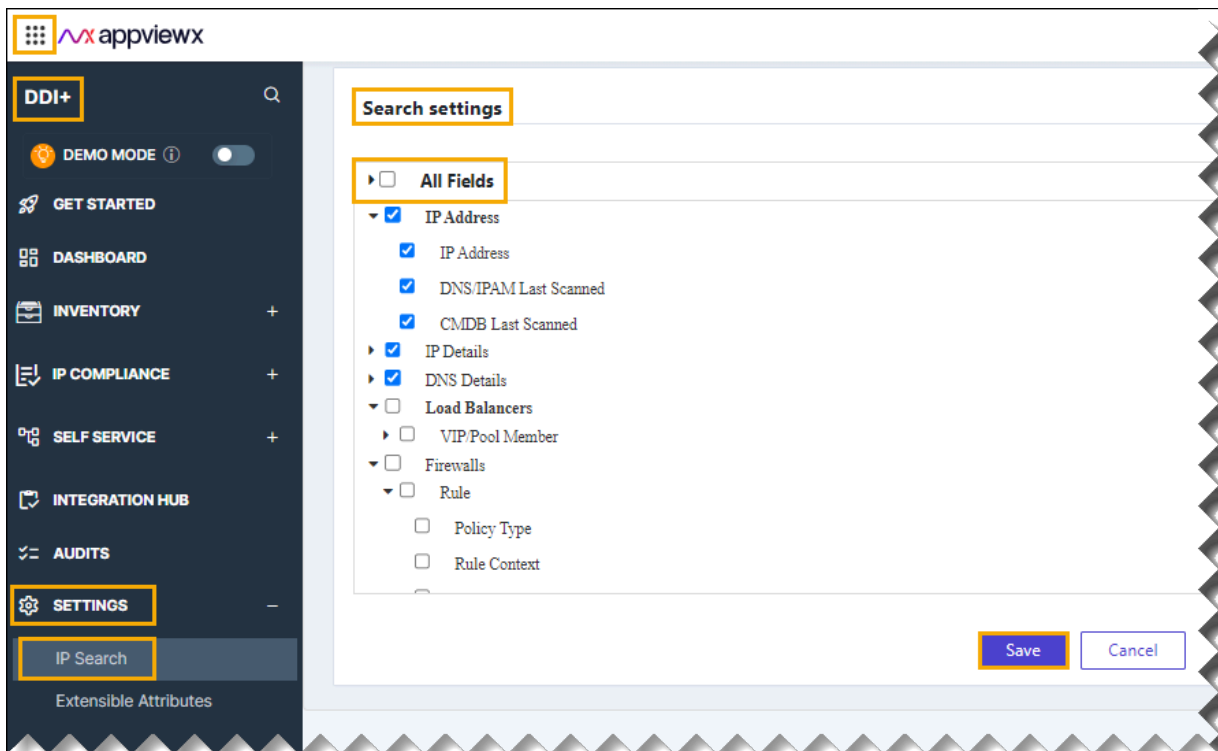
IP Search Settings

The IP Search settings allows users to customize the fields displayed in each node of the IP search view. Users can easily toggle check-boxes to select or deselect specific fields, thereby controlling the visibility of information according to their preferences.

To configure the IP Search:

1. Go to **DDI+ > SETTINGS**, and then click **IP Search**.

The **Search settings** page is displayed.



2. In the All Fields section, select the desired checkbox that to be reflected on the dashboard reports.
3. Click **Save**.

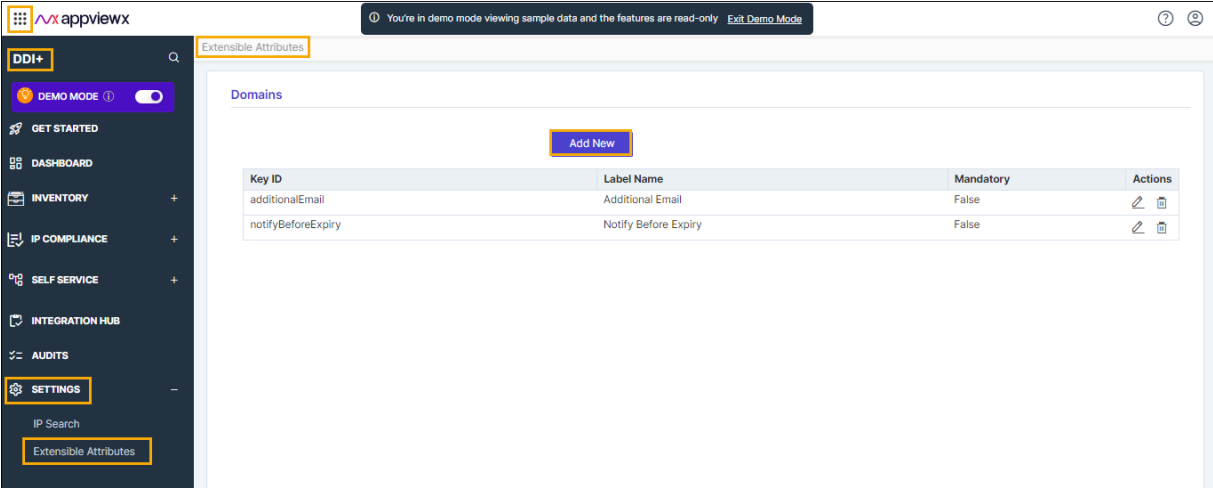
Extensible Attributes Settings

Extensible attributes are additional attributes that organizations may need to record as part of their domains.

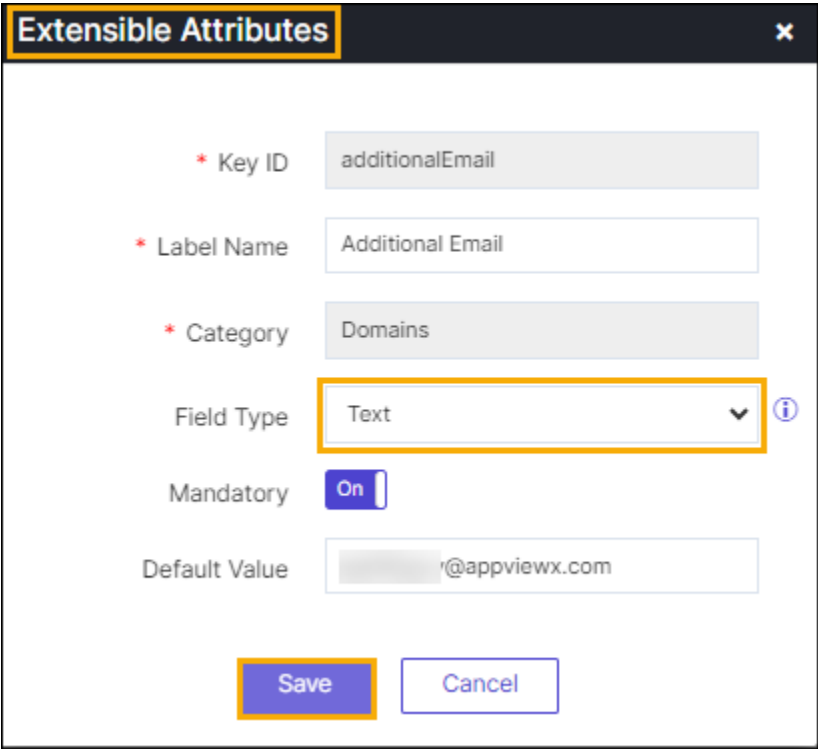
To configure the Extensible Attribute:

1. Go to **DDI+ > SETTINGS**, and then click **Extensible Attributes**.

The **Domains** page is displayed.



- 2. In the **Domains** section, click the **Add New** button. The **Extensible Attribute** window is displayed.



Extensible Attributes

✕

* Key ID

* Label Name

* Category

Field Type Dropdown i

* Default Values i

Save
Cancel

The following table describes the various fields in this section.

Field	Description
*Key ID	Enter the valid key ID.
*Label Name	Enter the name of the label.
*Category	By default, the Domains category is displayed.
Field Type	Select the desired extensible attribute type form the dropdown list. The available types are: <ul style="list-style-type: none"> • Text • Dropdown.
Mandatory	Move the radio button for On or Off . <div style="border: 1px solid #4a7ebb; border-radius: 10px; padding: 10px; margin-top: 10px; background-color: #e6f2ff;"> Note: This option will be enabled when the field type is selected as Text. </div>
*Default Value	Enter the valid Email ID.
*: <i>Mandatory fields</i>	

3. Click **Save**.