

# Release Notes

Published  
2024-11-12

## Juniper Apstra Cloud Services

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### Software Highlights

- Provides visibility into application performance (Service Aware) by visualizing the impact of network events on services, allowing for faster troubleshooting and improved reliability.
- Provides a graphical representation of network resource-to-service mapping of the data center network and the services showing how applications and services utilize the data center network.
- Performs impact analysis to help identify the root causes of application issues, enabling quicker resolutions network issues.
- Monitors and analyzes anomalies and events from the Apstra-managed data centers and provides actionable recommendations.
- Monitors events in Apstra-managed data center from Mist.
- Provides generative AI-based Marvis conversational interface to search Juniper Networks documentation for troubleshooting information.
- Provides alert notifications and alert templates to notify administrators when an event is generated.
- Enables network administrators to simulate failure scenarios to identify the potential impact an anomaly can have on services and clients.
- Search about Juniper products and services using the AI-enabled Marvis Conversational Interface (CI).

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# Introduction

Network administrators need real-time visibility into data center operations. Identifying data center issues and resolving them before they affect the network is crucial to providing an enhanced user experience. Juniper Apstra Cloud Services can receive, process, and perform root cause analysis of data center events received through the Apstra Edge component in an Apstra-managed data center.

Juniper Apstra Cloud Services utilizes the AIOps capability of Marvis Virtual Network Assistant for Data Center to analyze data center events and displays them in the Marvis Actions dashboard. Marvis Actions provides recommended actions that enable administrators to proactively respond to data center events. As an administrator, you can access Juniper Apstra from Juniper Apstra Cloud Services to troubleshoot and resolve events using these recommendations.

Marvis VNA for Data Center also provides a conversational interface, which administrators can use to ask queries in natural language and get relevant responses.

If you use Mist to manage your enterprise network and Juniper Apstra to manage your data center, you can monitor data center events from Mist by linking the organizations in Juniper Apstra Cloud Services and Mist. After the organizations are linked, you can view the total number of data center events from Mist in the **Data Center/Application** tile on the Marvis Actions page. You can then access Juniper Apstra Cloud Services from Mist to view more information about the events and then perform the recommended actions to resolve them.

## Software Compatibility Information

For detailed information about the supported version of Juniper Apstra, Juniper Apstra Cloud Services Edge, and Docker, see [Juniper Apstra Cloud Services Compatibility](#).

## Account Activation and Login

To activate your account and log into Juniper Apstra Cloud Services, see [Account Activation and Login](#)

# November 11, 2024

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## New Features

This section describes the new features released in Juniper Apstra Cloud Services.

### **Search About Juniper Products and Services Using Marvis CI**

Marvis Conversational Interface (CI) enables you to quickly search about Juniper Networks products and services. Marvis CI is designed to provide quick, relevant, and contextually aware responses to your queries, whether the queries are about Juniper products and features or for troubleshooting information.

Marvis CI serves as the first-level assistant to address your queries using dialog-based interactions and natural conversational flow. You can ask questions in natural language and quickly get responses and step-by-step guidance to troubleshoot issues or perform various tasks. In addition, you can ask follow-up queries and clarifications to refine your initial query and resulting response. Marvis CI also provides links to relevant resources that provide more information.

[See [Marvis Conversational Interface Overview](#).]

# September 26, 2024

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This section describes the new features released in Juniper Apstra Cloud Services.

## New Features

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## Dashboard

Juniper Apstra Cloud Services dashboard provides operational insights about the performance of the data center network and the hosted services. These insights enable network administrators to proactively respond to events and anomalies that impact end user experience.

The dashboard is highly customizable and you can choose the widgets to be displayed and their layout. You can also create a custom dashboard to monitor specific insights according to your network's requirements. The information provided in the dashboard includes site information, impact analysis, inventory, and key anomalies in the devices, and the services. The **Anomalies** panel provides a list of anomalies that are generated in the site you selected.

[See [Apstra Cloud Services Dashboard](#)]

## Service Awareness

The Service Awareness feature provides a graphical representation of how services utilize the data center network. The service awareness feature provides a network resource-to-service mapping of the data center network and the services. This enables administrators to monitor the performance of the services and the devices to which the services are attached.

The Service Aware page displays services grouped by throughput, volume of data transferred, and by the number of connections. The Topology view helps administrators to identify anomalies in the devices that might impact the services. The flow view enables you to monitor traffic pattern between the data center devices.

[See [Service Awareness Overview](#)]

## Impact Analysis

The Impact Analysis feature enables administrators to proactively identify and resolve network issues that can impact end user experience. The Impact Analysis feature provides a graphical representation of the network infrastructure along with the path that the service traffic takes.

The network topology provides information about how nodes in the data center are connected to the clients, how application traffic is handled, and how an anomaly in a node can impact application traffic. Also, you can simulate failure scenarios and identify how failure of a device can impact the services attached and the clients connected to that device.

These visualizations enable network administrators to proactively identify potential impact that a link failure can have on service traffic.

[See [Impact Analysis Overview](#)]

## Device Inventory

You can view detailed information about the devices managed by all the Apstra instances that are connected to Juniper Apstra Cloud Services. The Inventory page provides:

- Information about the Apstra-managed devices in the organization
- The total number of devices in the organization, grouped by their device models

You can filter the devices by site or view all the devices in the organization.

[See [About the Inventory Page](#)]

## Enhancement to Edge Adoption Process

Juniper Apstra Cloud Services provides flow data information from the Apstra instance. You must configure Apstra Flow server information about the Adopt Apstra Edge page. Also, you should enable sFlow in the data center devices.

After Flow Server information is configured, you can view information about the data center network topology, hosts and endpoints, services, and anomalies, if any, on the Service Aware and the Impact Analysis pages.

[See [Adopt Apstra Edge in Juniper Apstra Cloud Services](#)]

## April 5, 2024

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This section describes the features in Juniper Apstra Cloud Services.

## Analyze Data Center Events Using Marvis Actions

Juniper Apstra Cloud Services utilizes the AIOps capability of Marvis VNA for Data Center to receive, analyze, and perform root cause analysis of data center events and anomalies. Marvis VNA displays the events received through the Apstra Edge component in an Apstra-managed datacenter in the Marvis Actions dashboard along with recommended actions to resolve the event.

As an administrator, you can review the event and access Juniper Apstra to troubleshoot and resolve the event.

[See [View Data Center Events in Marvis Actions](#)]

## Access Juniper Apstra to Troubleshoot Events

As an administrator, you can access Juniper Apstra to troubleshoot and resolve data center events that are displayed in the Marvis Actions dashboard in Juniper Apstra Cloud Services.

To enable access to Juniper Apstra from Juniper Apstra Cloud Services, you need to adopt the Apstra Edge component, which is a virtual device that runs within a container in the data center. After Apstra Edge is adopted and the registration ID configured in Apstra Edge, you can start accessing Juniper Apstra from Juniper Apstra Cloud Services.

[See [Access Juniper Apstra from Juniper Apstra Cloud Services](#)]

## Monitor Data Center Events from Mist

If your enterprise network is managed using Mist and data center using Juniper Apstra, you can monitor data center events from Mist by linking the organization in Mist with the organization in Juniper Apstra Cloud Services. After the organization ID and API Token are configured in the **Apstra Cloud Services Integration** section on the Organization Settings page in Mist, you can view the total number of data center events in the **Data Center/Application** tile on the Marvis Actions page in Mist.

You can view more information about the events by accessing Juniper Apstra Cloud Services by clicking **Data Center/Application**. Juniper Apstra Cloud Services opens in a new browser window or tab.

[See [Monitor and Troubleshoot Data Center Events from Mist](#)]

## Search Documentation Using Marvis Conversational Interface

As a network administrator, you can use Marvis conversational interface (CI) to quickly search for information about events or network issues in Juniper Apstra Documentation. Marvis CI supports natural language processing (NLP) and you can ask queries in natural language. You can use the answers

Marvis CI generates to resolve network issues faster without having to rely on multiple resources for the required information.

This feature is provided as a technology preview. For more information about technology previews, see [Juniper Apstra Technology Preview](#).

[See [Search Documentation Using Marvis Conversational Interface](#)]

## Configure Alert Notifications

You can configure Juniper Apstra Cloud Services to generate and send alert notifications when an event or alert is generated. You can:

- Specify alert types for which alerts should be generated.
- Configure an alert template to display only those alerts that are tracked in the template.
- Configure E-mail Recipient Settings to receive alert notifications in e-mail.

You can use these insights to respond to network events and anomalies in a proactive manner.

[See [About the Alerts Page](#)]

## Known Issues

This section lists the known issues in Juniper Apstra Cloud Services.

- When the same type of alert is generated multiple times, the alert count displayed in the **Recurrence** column on the Alerts page takes a few minutes to get updated. However, the alerts are displayed immediately on the Alerts page with the recurrence count as 1.

Workaround: None.

- In the alerts generated before onboarding Apstra Cloud Services Edge, the device name is displayed as **unknown**. However, alerts generated after onboarding the edge are displayed along with the corresponding device name.

Workaround: None.

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