

JUNIPER MX204 Routing Assurance



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Begin

Step 1

SUMMARY

Juniper Routing Assurance enables you to onboard routers and monitor their health and performance. Juniper Routing Assurance collects routing insights and platform information from the routers and displays them on a dashboard. To see the list of routers that Juniper Routing Assurance supports, see “Supported Hardware Platforms” on page 5.

Install the Router

Follow the instructions in the hardware documentation to unbox the device, mount it on a

rack, and power on the device. For details about installing a device, see the device's Hardware Guide (on the Routing > View More section of the [Documentation](#) site) or the [Quick Start Guide](#).

Prerequisites

Before you can onboard a router to Juniper Routing Assurance, you'll need to ensure that you have:

- Login credentials to access Juniper Routing Assurance (<https://routing.ai.juniper.net/>).
- Super User role in the organization.
- Created the site to which the router needs to be onboarded.
- Configured firewall to allow outbound access on TCP port 2200 from the management port of the router.
- Enabled Internet access from the router. You can verify this by pinging the IP address 8.8.8.8.

For more information, see [Juniper Routing Assurance Quick Start Guide](#).

Up and Running

Step 2

Onboard Routers

You must first onboard the router to Juniper Routing Assurance and assign it to a site. After the router is onboarded, Juniper Routing Assurance starts providing information about the router's health and performance.

Before you onboard a router, ensure that;

- The router can reach the gateway.
- The router can connect to the Internet. You can verify this by pinging the IP address 8.8.8.8.
- The firewall is configured to allow outbound access on TCP port 2200.
- Take a backup of the existing Junos OS configuration on the router by running the following command on the router's CLI.

user@host> request system configuration rescue save

Backup configuration is saved in the config directory.

To onboard a router:

1. Log into Juniper Routing Assurance.

2. Navigate to **Organization > Inventory**.

The Inventory page appears.

3. On the **Routers** tab, click **Adopt Routers**.

The Router Adoption page appears displaying the outbound SSH configuration that needs to be committed on the router to establish a connection with Juniper Routing Assurance.

4. Click Copy to Clipboard to copy the CLI commands to the clipboard.

5. Log into the router's CLI using SSH and enter configuration mode.

6. Paste the contents of the clipboard and commit the configuration on the router.

```
[edit] user@host# set system services ssh protocol-version v2
```

```
[edit] user@host# set system authentication-order password
```

```
[edit] user@host# set system login user ai-prod class super-user
```

```
[edit] user@host#...
```

```
nmgvFTc2SdRnZECGa9UHhD.hWuolkoR2abFKk/fkz28IRf.9nJnWXmX8.p41DDjc/
```


```
—
```

```
[edit] user@host# commit
```

```
commit complete
```

7. In Juniper Routing Assurance page close the Router Adoption page. Click **Organization > Inventory > Routers** tab.

The Inventory page appears displaying the newly onboarded router in the **Unassigned** state.

 **NOTE:** After the outbound SSH configuration is committed from the router's CLI, it takes about three minutes for the router to be displayed on the Inventory page in Juniper Routing Assurance.

Assign Routers to Sites

After the router is onboarded successfully, you must assign the router to a site.

To assign a router to a site:

1. From the menu, click **Organization > Inventory > Routers** tab.

The onboarded routers are displayed.

The status of a router that is onboarded to Juniper Routing Assurance, but is not assigned to a site appears as

Unassigned.

2. Select the router that you want to assign to a site and click the **More** drop-down list.

3. Click **Assign to Site**.

The Assign Routers pop-up appears.

4. From the site drop-down list, select the site you want to assign the router to and click **Assign to Site**.


5. Click **Close** to close the assign routers pop-up.

After the router is assigned to a site, the status of the router changes to **Connected**, indicating that the router can be monitored from Juniper Routing Assurance. The status of a router changes to **Disconnected** if your network stops allowing outbound SSH connection or if the outbound SSH configuration is removed from the router.

 **NOTE:** You can monitor a router only after it is assigned to a site.

View Router Insights

After a router is connected to Juniper Routing Assurance, you can view information about the health of the routing platform and its components, the router's performance, and connectivity. Administrators can use this information to proactively respond to network events that impact network traffic. You can view router insights by clicking **Router Insights** from the **Routers: Router name** page.

 **NOTE:** After a device is onboarded, the current device information is displayed first, along with by a Lime stamp in the top right corner of the table. Graphs are populated after the required aggregation interval of 10 minutes or 1 hour, depending on the requested time-range.



NOTE: After an event occurs in the network, it takes up to three minutes for the events to be visible in the router insights dashboard in Juniper Routing Assurance.

Information that Juniper Routing Assurance provides includes the following:

- Front panel, port list, and physical inventory information
- Routing table information
- BGP sessions and BGP peer information
- OSPF summary information
- Router interface queues
- Router charts displaying CPU and memory utilization and port errors
- Visualization in charts and graphs
- Site-level aggregation of router events

Supported Hardware Platforms

Router Model	Datasheet	Quick Start Guide	Hardware Guide
MX204	MX 204/240/480/960 Series Universal Routing Platforms Datasheet	MX204 Quick Start Guide	MX204 Universal Routing Platform Hardware Guide
MX304	MX304 Universal Routing Platform Datasheet	MX304 Quick Start Guide	MX304 Universal Routing Platform Hardware Guide
MX240	MX 204/240/480/960 Series Universal Routing Platforms Datasheet	MX240 Quick Start Guide	MX240 Universal Routing Platform Hardware Guide

MX480*	MX 204/240/480/960 Series Universal Routing Platforms Datasheet	MX480 Quick Start Guide	MX480 Universal Routing Platform Hardware Guide
MX960*	MX 204/240/480/960 Series Universal Routing Platforms Datasheet	MX 960 Quick Start Guide	MX960 Universal Routing Platform Hardware Guide
ACX7024 ACX7024X	ACX7024 and ACX7024X Cloud Metro Routers Datasheet	ACX7024 Quick Start Guide	ACX7024 and ACX7024X Cloud Metro Router Hardware Guide
ACX7100-32C	ACX7100 Cloud Metro Routers Data Sheet	ACX7100-32C Quick Start Guide	ACX7100-32C Cloud Metro Router Hardware Guide
ACX7100-48L	ACX7100 Cloud Metro Routers Data Sheet	ACX7100-48L Quick Start Guide	ACX7100-48L Cloud Metro Router Hardware Guide

*Juniper Routing Assurance currently supports MX480 and MX960 routers with the following Gigabit Ethernet type MPCs: MPC7E 3D MRATE-12xQSFP-XGE-XLGE-CGE, MPC10E-10C-MRATE, MPC10E-15C-MRATE and, MPC3E-3D-NG-Q.

Keep Going

Step 3

What's Next

If you want to	Then
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Know more about the routing insights that Juniper Routing Assurance provides	See Router Insights
Troubleshoot routing issues.	See Router Utilities

General Information


If you want to	Then
Know more about Juniper Routing Assurance	Juniper Routing Assurance Documentation
Learn about new features in Juniper Routing Assurance	Release Notes

Learn With Videos

If you want to	Then
Get short and concise tips and instructions that provide quick answers, clarity, and insight into specific features and functions of Juniper technologies.	See Learning with Juniper on Juniper Networks main YouTube page
View a list of the many free technical trainings we offer at Juniper.	Visit the Getting Started page on the Juniper Learning Portal.


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Documents / Resources

	JUNIPER MX204 Routing Assurance [pdf] User Guide MX204 Routing Assurance, MX204, Routing Assurance, Assurance
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References

- [User Manual](#)

 assurance, JUNIPer, MX204, MX204 Routing Assurance, Routing

 JUNIPer Assurance

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