

Quick Start

Juniper Mist Edge

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Step 1: Begin

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This guide walks you through the simple steps to get a new Juniper Mist Edge up and running in the Mist cloud. You can onboard a Mist Edge using your mobile phone, or you can onboard one or more Mist Edges using your computer.



NOTE: Before you begin, you must set up your organization and sites, and activate your subscriptions. For more information, see [Quick Start: Mist](#).

We show you how to onboard Mist Edge using two different methods:

- To onboard one or more Mist Edge using your mobile phone, see "[Onboard a Mist Edge Using the Mist AI Mobile App](#)" on page 2

- To onboard one or more Mist Edges using your computer, see ["Onboard One or More Mist Edges Using a Web Browser" on page 3](#)

To perform either onboarding process, you will need to locate the claim code label on the purchase order or on the appliance pull-out tag.



1. Power button
2. Claim code on the pull-out tag

Onboard a Mist Edge Using the Mist AI Mobile App

You can use the Mist AI mobile app to quickly onboard a Mist Edge. With this app you can claim a Mist Edge, assign the device to a site, or add the device to a cluster. To onboard a single Mist Edge using the Mist AI mobile app from your mobile phone:

1. Download and install the Mist AI app from the Google [Play Store](#) or Apple [App Store](#).
2. Open the Mist AI app and log in using your account credentials.
3. Select your Organization.
4. Select **Claim Devices to Org** to enter the claim code.

Or,

5. Select **Device Inventory**, select the **Mist Edges** tab and tap + on the top right corner.
6. Enter the Claim code in the Claim code field and select **Claim**.

You could also locate the QR code on the Mist Edge appliance and focus the camera on the QR code.

The app automatically claims the Mist Edge and adds it to your site.

7. Select **Device Inventory**. You'll see the new Mist Edge listed under the **Unassigned** group in the Mist Edges tab.

To complete the onboarding process, see ["Step 2: Up and Running" on page 5](#).

Tap the Mist Edge to view the **Name**, **Status** and **Registration** details.

You can perform the following tasks from the Mist Edge details screen:

- Rename the device
- Assign the device to a site
- Add the device to a cluster
- Release the device

Here's a video that shows how you can onboard a Mist Edge using the Mist AI mobile app:



Video:

Onboard One or More Mist Edges Using a Web Browser

Onboarding multiple Mist Edge—When you purchase multiple Mist Edges, we provide you with an activation code along with your PO information. Make a note of this code to use in Step 3 in the following procedure.

Onboarding a single Mist Edge—Locate the QR code on your Mist Edge device and jot down the alphanumeric claim code directly above it.

1. Log in to your account at <https://manage.mist.com/>.
2. Go to **Mist Edges** → **Mist Edge Inventory** and click **Claim Mist Edge**.
3. Enter the claim code or activation code in case of claiming multiple devices in the **Enter ME claim codes or Activation codes** field. Click **Add**.

You can get the claim code from the purchase order or from the appliance pull-out tag.

If you are onboarding more than one Mist Edge device, enter their claim codes and separate them by commas.

Claim Mist Edge and Activate Subscriptions

Enter ME claim codes or Activation codes

Add

Site Assignment

☐ Assign claimed ME to site

Primary Site

Claim Cancel

- (Optional) Select the **Assign claimed ME to site** checkbox to assign the claimed Mist Edge device to a site. You can select a site from the drop-down.
- Click **Claim**.
- Review the information and close the window.
- View your new Mist Edge on the Inventory page. The status should show **Disconnected** with a red dot and **Registered**.

To complete the onboarding process, see ["Step 2: Up and Running" on page 5](#).

Here's a video that shows how you can onboard a Mist Edge using the web browser:



Video:

Step 2: Up and Running

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After you claim the device you need to:

1. Mount the Mist Edge device.
2. Configure the Tunnel Services between the Access Point (AP) and the Mist Edge device.
3. Configure the Out-of-Band Management Interface for the Mist Edge device.

The steps are explained in detail in the following sections.

Mount the Mist Edge

You can mount the Mist Edge on a server rack. For instructions specific to your Mist Edge model, see the applicable hardware guide on the [Juniper Mist Supported Hardware](#) page.

Connect to the Network and Power On the Mist Edge



NOTE: Before connecting the Mist Edge device to the network, ensure that you complete all necessary configurations on switch ports for Out-Of-Band-Management (OOBM) and tunnel configuration.

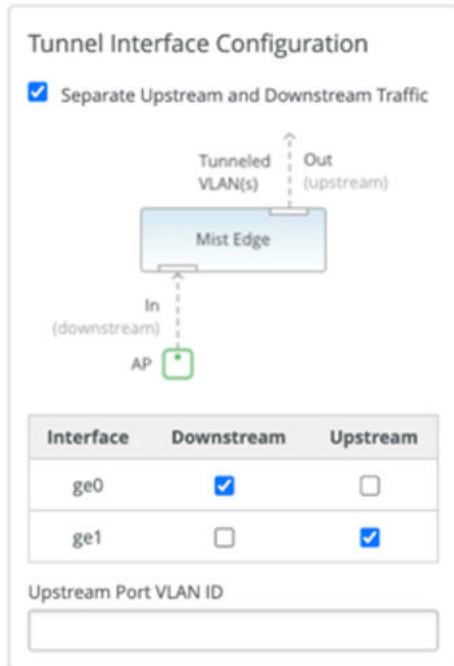


NOTE: Some tasks in the following procedure require you to configure or connect to services like DHCP and DNS in your local network. We do not provide instructions for configuring or locating these services.

Connect the Mist Edge device to a network with Internet access. To ensure that your device has access to the Juniper Mist cloud, confirm that the required ports on your Internet firewall are open. See [Firewall Configuration](#).

To connect a Mist Edge device to the network:

1. Connect an Ethernet port from a switch to the OOBM interface of the Mist Edge device port (labeled as MIST). This interface allows the Mist Edge device to connect to Internet and to Juniper Mist cloud for configuration, telemetry, and life cycle management.
2. Connect an Ethernet port from a switch to the ge0 (downstream port of Mist Edge) and ge1 (Upstream port of Mist Edge). These interfaces are for Tunnel services, where an AP forms a tunnel with Mist Edge.



NOTE: Port and tunnel interface configuration are different for each Mist Edge model. The ports mentioned here are for ME-X1 device.

3. (Optional) Connect an Ethernet port from a switch to the Integrated Dell Remote Access Controller (iDRAC) port of the Mist Edge device.
4. If your network is DHCP enabled, you can then use the Juniper Mist portal to configure the static IP address. Here's an example to configure static IP address:

< Mist Edge Inventory : test_1

Name
test_1

Model
X1

Registration Unregistered

Registration Code
PB8i3ETH6v4rUxSwAFBt-HxOEIOqPTNjc

Mist Edge ID
00000000-0000-0000-1000-020000768e

Cluster
No Cluster

Notes
Add Notes

Management Passwords
Mist Password [Reveal](#)
Root Password [Reveal](#)

IGMP Snooping
☐ Enabled ☒ Disabled

Tunnel IP Configuration

IPv4 IPv6

IP
10.1.2.4

Netmask
/24

Gateway
10.1.2.2

Tunnel Interface Configuration

☒ Separate Upstream and Downstream Traffic

Interface	Downstream	Upstream
ge0	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ge1	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Upstream Port VLAN ID

DHCP Relay
☐ Configure DHCP Relay

Status

Last Seen	
Uptime	0
Version	--
OOBM IPv4 Address	--
OOBM IPv6 Address	--
OOBM MAC Address	--
Subnet	--
Gateway	--
Status	Disconnected
Connections	--
External IP Address	--
Tunnel Termination	Start
Radius Proxy	Start

Statistics

Insights [Mist Edge Insights](#)

Inactive Upstream VLAN --

OOBM IP Address

IPv4 IPv6

☐ Unmanaged ☐ DHCP
☒ Static ☐ Disabled

IP Address
176.16.3.2

Subnet Mask
/24

Default Gateway
176.16.3.4

DNS
8.8.8.8, 1.1.1.1

5. In rare cases, where DHCP is not available, only then configure static IP from CLI. Ensure to replicate it on the Mist portal. You can choose any of the following methods to access the console:
- Log in to Mist Edge CLI using the keyboard, monitor, and mouse and access the console.
 - Configure Integrated Dell Remote Access Controller (iDRAC) port on the Mist Edge device.
 - Connect iDRAC port to the network.
 - Get the IP address from the front panel on the device through **View > IPv4 > iDRAC IP**.
 - Open browser on a PC connected to the same network as iDRAC IP. You can access the iDRAC user interface by using the URL `https://<iDRAC IP address>`. The default iDRAC user is root and the password is available on the Mist Edge appliance pull-out tag, on reverse sides of the tag.
 - From the iDRAC dashboard, launch the virtual console. See [iDRAC Virtual Console](#).

- Enter the user credentials in the console.
 - `mist`—The default username
 - `Claim-code`—The default password and the password for the root (su -) user
- Enter the following command to specify the OOBM parameters:

```
mxagent oob-ip configure --address ip-address --gateway gateway-ip-address --netmask netmask --name-servers name-servers
```

```
root@ ~# mxagent oob-ip static --help
CLI settings that can be shadowed by Cloud settings
NOTE: changes might break current ssh connection

Usage:
  mxagent oob-ip static [flags]

Flags:
  --address string          e.g. 10.10.10.10
  --autoconf6 string        disabled/enabled
  --gateway string          e.g. 10.10.10.1
  -h, --help               help for static
  --name-servers strings    DNS (default [8.8.8.8,8.8.4.4])
  --netmask string          e.g. 255.255.255.0 or 24
root@ ~# mxagent oob-ip static --address 10.10.10.10 --netmask 255.255.255.0 --gateway 10.10.10.1 --name-servers 8.8.8.8
```

Once OOBM interface has the IP address, the Mist Edge establishes connectivity to the Mist cloud. and the Mist cloud pushes the configuration onto the Mist Edge along with the services updates.

Once the OOBM is configured and the firewall rules are set, the Mist Edge appears as **Connected** with an amber dot and **Registered** in the Mist Edge inventory.

Congratulations! You've successfully onboarded your Mist Edge.

If you do not see the Mist Edge device online, see [Troubleshooting Juniper Mist Edge](#).

Step 3: Keep Going

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- [Learn with Videos | 9](#)

What's Next?

Use the Mist portal to configure and monitor your Mist Edge for your network. These tables provide links to additional information to help you get started.

If you want to	See
Create a Mist cluster and a Mist Edge to the cluster	Create a Mist Cluster
Create a Mist tunnel	Create Mist Tunnel (Organization Level) and Create Mist Tunnel (Site Level)
Configure a WLAN Template	Configure WLAN Template
Integrate with Juniper Support Insights (JSI)	Integrate Your Juniper Support Account with Juniper Mist

General Information

If you want to	See
See all documentation available for designing the network using Mist Edge	How to Design the Deployment of Juniper Mist Edge
See product update information	Product Updates

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 Videos on the 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.

