

# MX240 Universal Routing Platform

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RELEASE

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# MX240 Quick Start Description

This Quick Start contains information you need to install and configure the router quickly. For complete installation instructions, see the [MX240 Universal Routing Platform Hardware Guide](https://www.juniper.net/documentation/) at <https://www.juniper.net/documentation/>.



**WARNING:** This Quick Start contains a summary of safety warnings in "[Safety Warnings](#)" on page 25. For a complete list of warnings for this router, including translations, see the [MX240 Universal Routing Platform Hardware Guide](https://www.juniper.net/documentation/) at <https://www.juniper.net/documentation/>.

The router is shipped in a cardboard box strapped securely to a wooden pallet. Plastic straps secure the top and bottom in place. The router chassis is bolted to this pallet. Quick Start installation instructions and a cardboard accessory box are also included in the shipping container.

## Step 1: Prepare the Site for MX240 Installation

### IN THIS SECTION

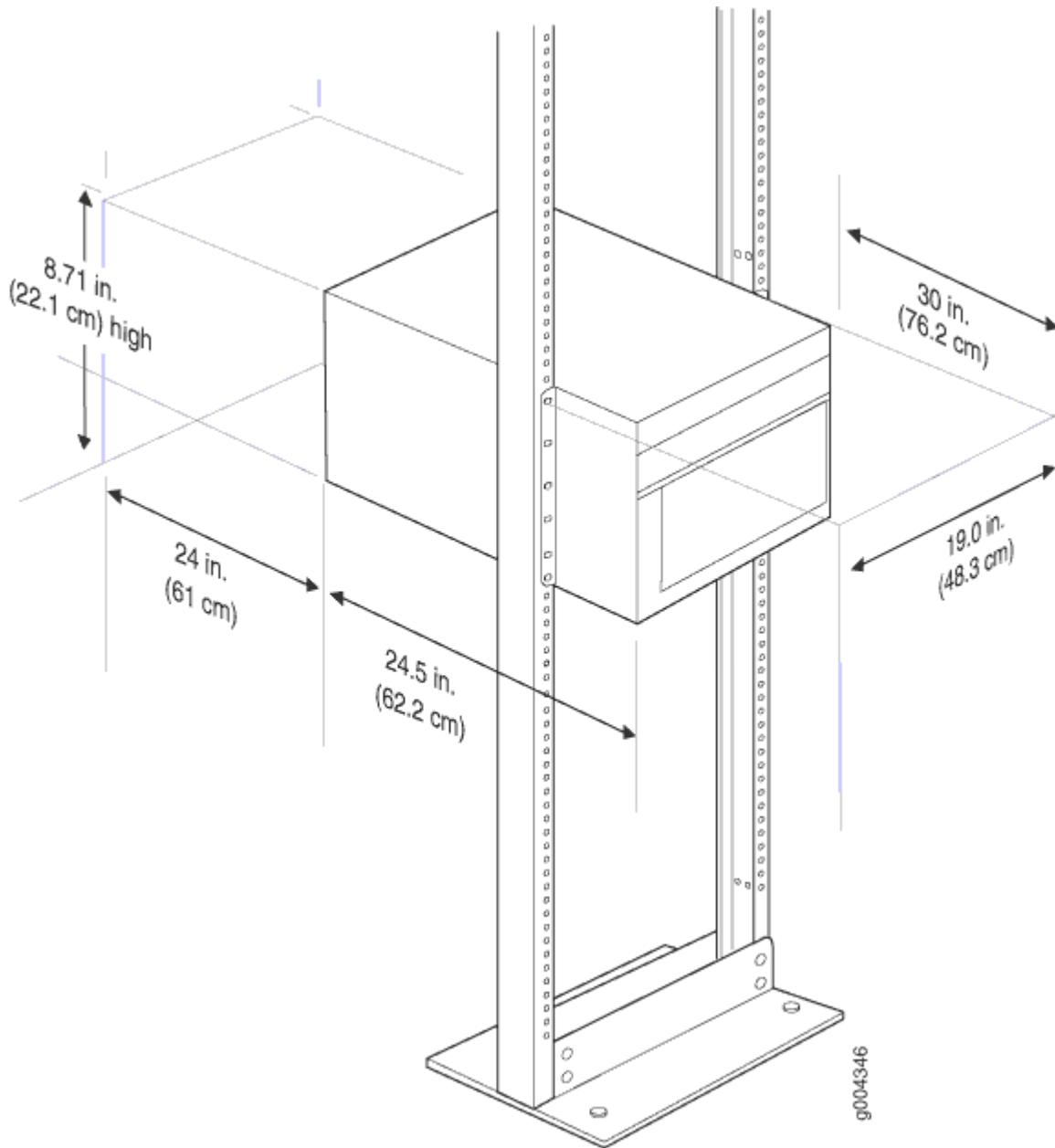
- [MX240 Rack-Mounting Requirements | 1](#)
- [Tools Required to Unpack and Prepare the MX240 Router for Installation | 3](#)

### MX240 Rack-Mounting Requirements

- You can install the router in a four-post rack or cabinet or an open-frame rack.
- The rack rails must be spaced widely enough to accommodate the router chassis's external dimensions: 8.71 in. (22.1 cm) high, 24.5 in. (62.2 cm) deep, and 17.45 in. (44.3 cm) wide. The mounting brackets extend the width to 19 in. (48.3 cm).
- The rack must be strong enough to support the weight of the fully configured router, up to 128 lb (58.1 kg).

- For the cooling system to function properly, the airflow around the chassis must be unrestricted. Allow at least 6 in. (15.2 cm) of clearance between side-cooled routers. Allow 2.8 in. (7 cm) between the side of the chassis and any non-heat-producing surface such as a wall.
- For service personnel to remove and install hardware components, there must be adequate space at the front and back of the router. Allow at least 30 in. (76.2 cm) in front of the router and 24 in. (61 cm) behind the router.
- The rack or cabinet must have an adequate supply of cooling air.
- Ensure that the cabinet allows the chassis hot exhaust air to exit from the cabinet without recirculating into the router.
- The router must be installed into a rack that is secured to the building structure.
- Mount the router at the bottom of the rack if it is the only unit in the rack.
- When mounting the router in a partially filled rack, load the rack from the bottom to the top with the heaviest component at the bottom of the rack.

Figure 1: MX240 Rack Clearance and Router Dimensions



## Tools Required to Unpack and Prepare the MX240 Router for Installation

To unpack the router and prepare for installation, you need the following tools:

- A mechanical lift—recommended
- Phillips (+) screwdrivers, numbers 1 and 2

- 2.5-mm flat-blade (–) screwdriver
- 7/16-in. (11 mm) torque-controlled driver or socket wrench
- 1/2-in. or 13-mm open-end or socket wrench to remove bracket bolts from the shipping pallet
- Electrostatic discharge wrist strap
- Antistatic mat

Proceed to ["Step 2: Install the Mounting Hardware in a Four-Post Rack or Cabinet or an Open-Frame Rack" on page 4](#).

## Step 2: Install the Mounting Hardware in a Four-Post Rack or Cabinet or an Open-Frame Rack

To install the mounting shelf on the front rails of a four-post rack or cabinet, or the rails of an open-frame rack:

1. If needed, install cage nuts in the holes specified in [Table 1 on page 4](#).
2. On the back of each rack rail, partially insert a mounting screw into the lowest hole specified in [Table 1 on page 4](#).
3. Install the mounting shelf on the back of the rack rails. Rest the bottom slot of each flange on a mounting screw.
4. Partially insert screws into the open holes in each flange of the mounting shelf (see [Figure 2 on page 5](#) or [Figure 3 on page 6](#)).
5. Tighten all the screws completely.

**Table 1: MX240 Mounting Hole Locations**

Hole	Distance Above U Division		Mounting Shelf
4	2.00 in. (5.1 cm)	1.14 U	X
3	1.51 in. (3.8 cm)	0.86 U	X
2	0.88 in. (2.2 cm)	0.50 U	X

**Table 1: MX240 Mounting Hole Locations (Continued)**

Hole	Distance Above U Division	Mounting Shelf
1	0.25 in. (0.6 cm)	0.14 U X

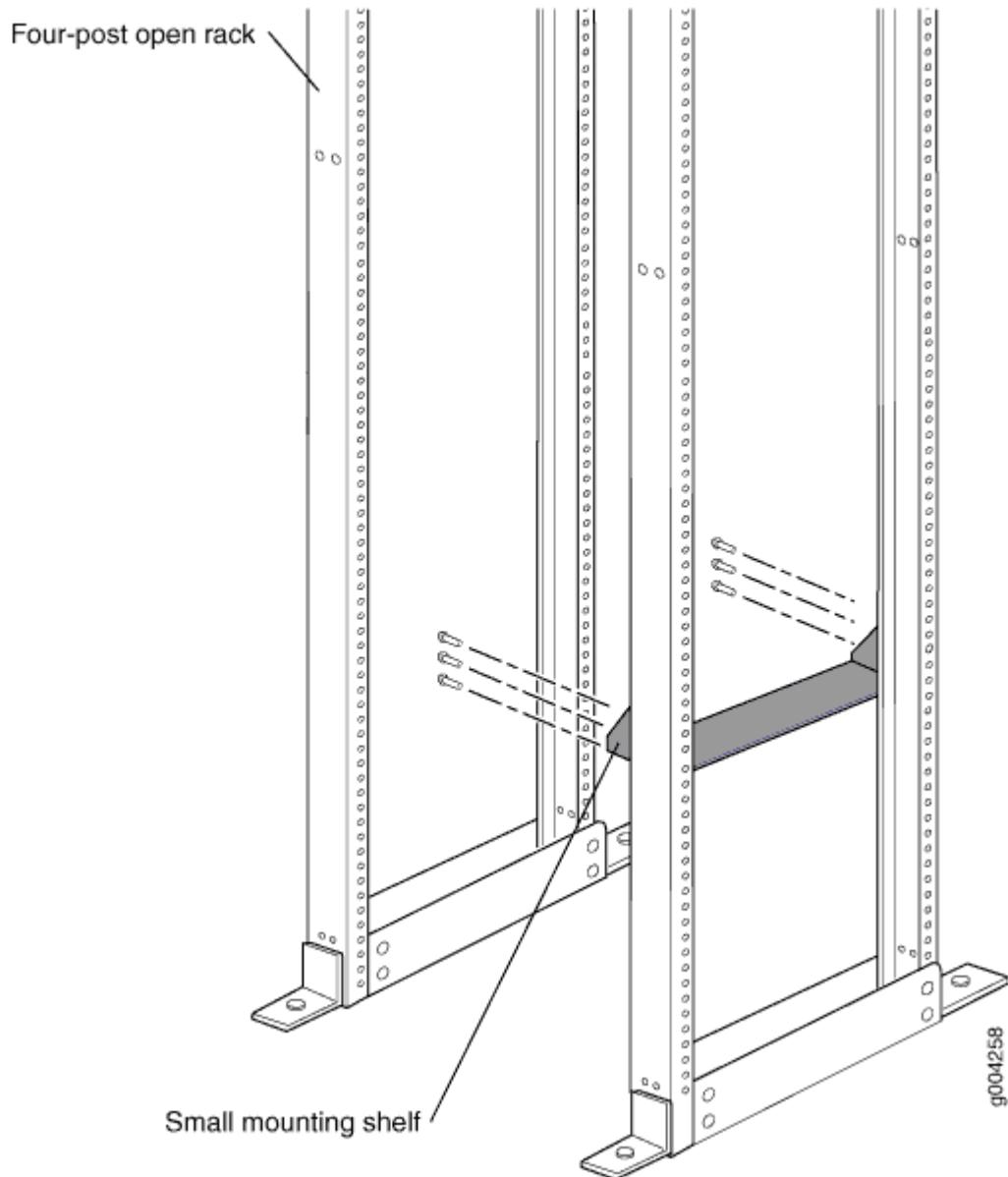
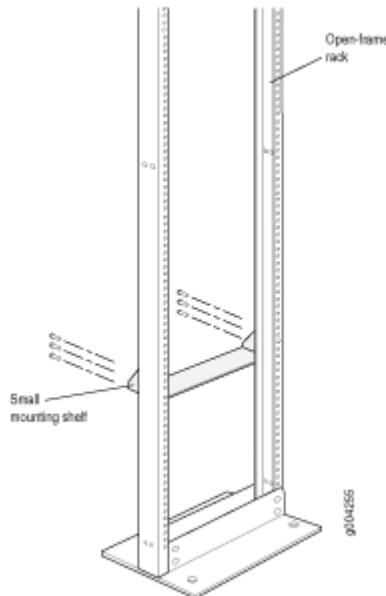
**Figure 2: Mounting Hardware for a Four-Post Rack or Cabinet**

Figure 3: Mounting Hardware for an Open-Frame Rack



Proceed to ["Step 3: Install the Router" on page 6](#).

## Step 3: Install the Router

### IN THIS SECTION

- [Remove Components | 7](#)
- [Install the Router Using a Lift | 8](#)
- [Install the Router Without a Mechanical Lift | 10](#)
- [Reinstall Components | 11](#)

Because of the router's size and weight, you must remove all components before installing the router. We also recommend that you install the router using a mechanical lift.

## Remove Components

Figure 4: Components to Remove from the Front of the MX240 Router

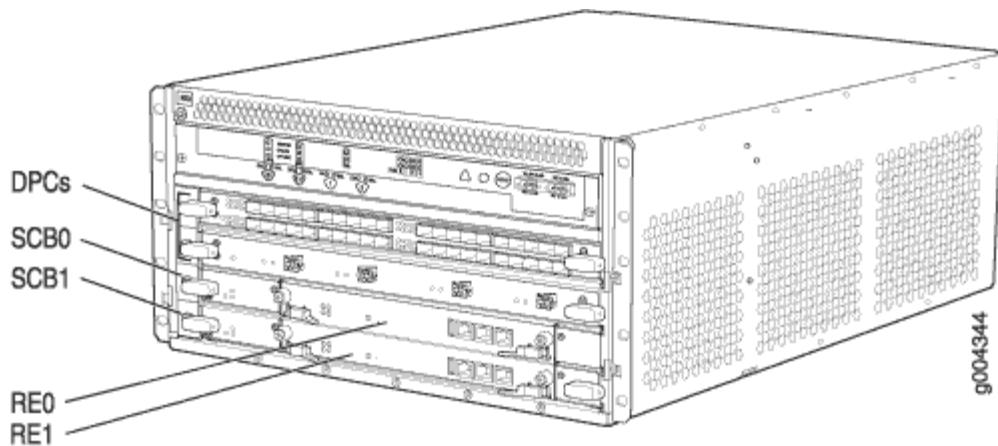
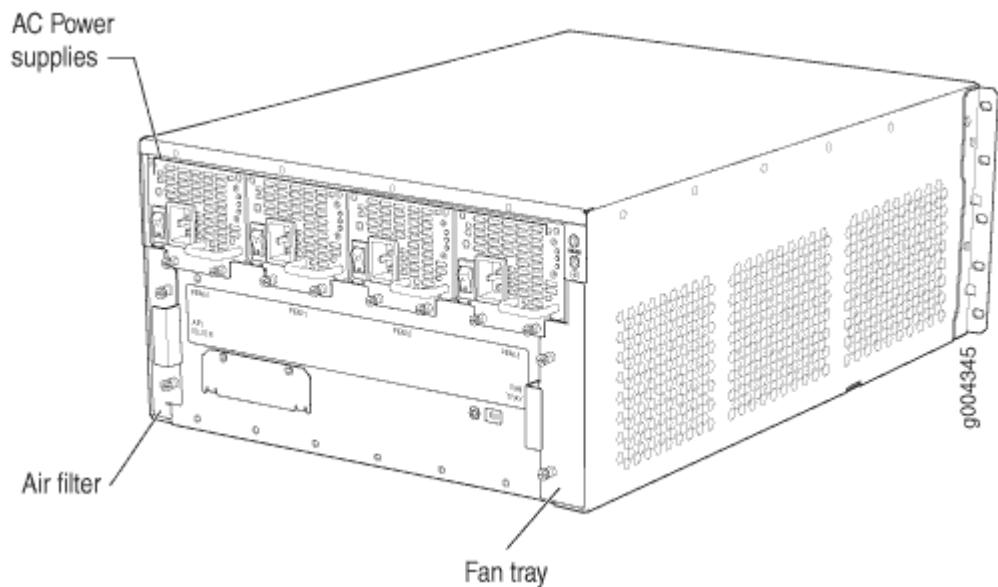


Figure 5: Components to Remove from the Rear of the MX240 Router



Before lifting the router, you must remove the following components:

- Power supplies
- Switch Control Boards (SCBs)
- Routing Engines

- Air filter
- Fan tray
- Line cards:
  - Dense Port Concentrators (DPCs)
  - Flexible PIC Concentrators (FPCs)
  - Physical Interface Cards (PICs)
  - Modular Port Concentrators (MPCs)
  - Modular Interface Cards (MICs)

To remove the components from the router:

1. Slide each component out of the chassis evenly so that it does not become stuck or damaged.
2. Label each component as you remove it so you can reinstall it in the correct location.
3. Immediately store each removed component in an electrostatic bag.
4. Do not stack removed components. Lay each one on a flat surface.

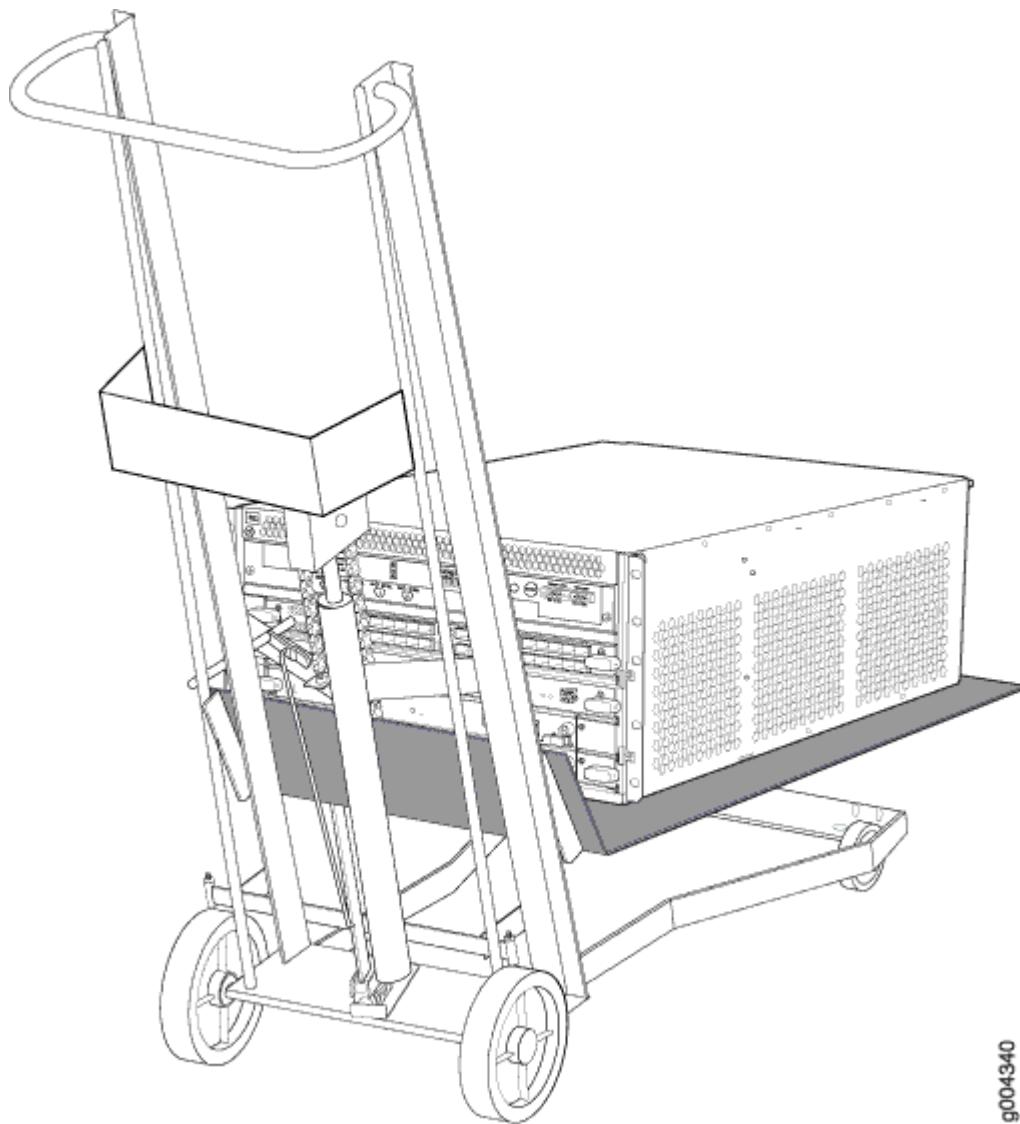
**NOTE:** For complete instructions on removing router components, see “*Installing the MX240 Chassis in the Rack Manually*” in the [MX240 Universal Routing Platform Hardware Guide](#).

## Install the Router Using a Lift

To install the router using a lift:

1. Ensure that the rack is in its permanent location and is secured to the building. Ensure that the installation site allows adequate clearance for both airflow and maintenance. For details, see the [MX240 Universal Routing Platform Hardware Guide](#).
2. Load the router onto the lift, making sure it rests securely on the lift platform (see [Figure 6 on page 9](#)).

Figure 6: Load the MX240 Router onto the Lift



3. Using the lift, position the router in front of the rack or cabinet, centering it in front of the mounting shelf.
4. Lift the chassis approximately 0.75 in. above the surface of the mounting shelf and position it as close as possible to the shelf.
5. Carefully slide the router onto the mounting shelf so that the bottom of the chassis and the mounting shelf overlap by approximately 2 inches.
6. Slide the router onto the mounting shelf until the mounting brackets contact the rack rails. The shelf ensures that the holes in the mounting brackets align with the holes in the rack rails.
7. Move the lift away from the rack.
8. Install a mounting screw into each of the open mounting holes aligned with the rack, starting from the bottom.

9. Visually inspect the alignment of the router. If the router is installed properly in the rack, all the mounting screws on one side of the rack should be aligned with the mounting screws on the opposite side, and the router should be level.

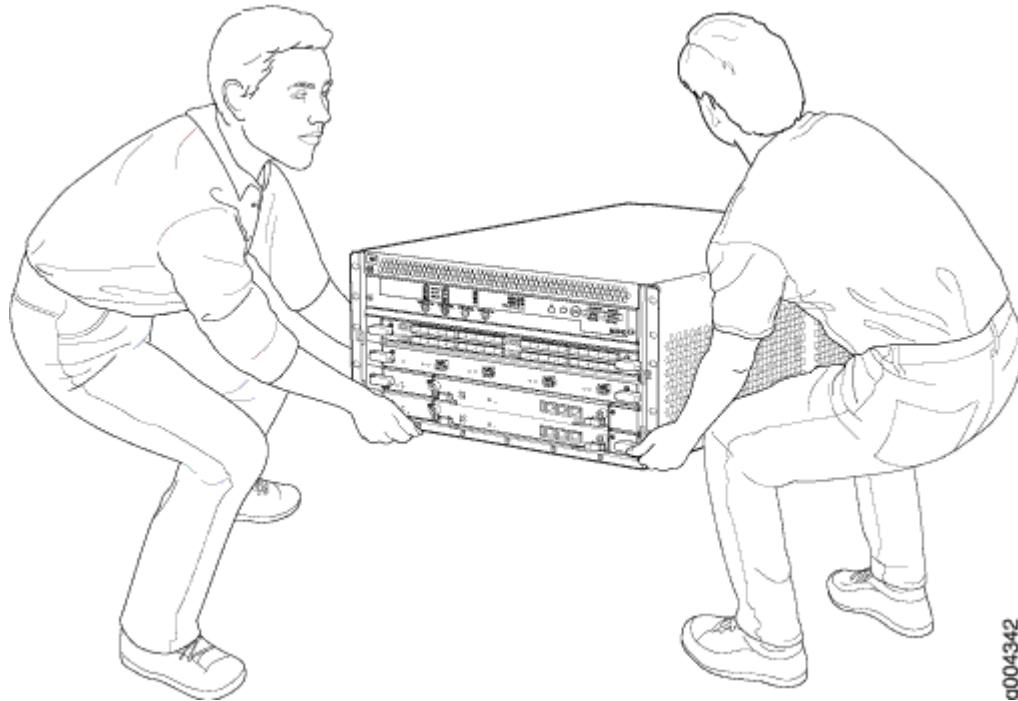
## Install the Router Without a Mechanical Lift

At least two people are required to lift an empty chassis, which weighs approximately 65.5 lb (29.7 kg), and mount it in a rack. Three people are required to lift a fully configured router, which can weigh up to 128 lb (58.1 kg).

To install the router without a mechanical lift:

1. Ensure that the rack is in its permanent location and is secured to the building.
2. Position the router in front of the rack or cabinet, centering it in front of the mounting shelf. Use a pallet jack if one is available.
3. With one person or two people on each side, hold onto the bottom of the chassis and carefully lift it onto the mounting shelf.
4. Slide the router onto the mounting shelf until the mounting brackets contact the rack rails. The shelf ensures that the holes in the mounting brackets align with the holes in the rack rails.
5. Install a mounting screw into each of the open mounting holes aligned with the rack, starting from the bottom.
6. Visually inspect the alignment of the router. If the router is installed properly in the rack, all the mounting screws on one side of the rack should be aligned with the mounting screws on the opposite side and the router should be level.

Figure 7: Lift the MX240 Router into the Rack



## Reinstall Components

To reinstall the components in the router:

1. Slide each component into the chassis evenly so that it does not become stuck or damaged.
2. Tighten the captive screws for each component.

**NOTE:** Make sure that all empty slots are covered with a blank panel before operating the router.

Proceed to ["Step 4: Connect the Grounding Cable" on page 11](#).

## Step 4: Connect the Grounding Cable

1. Attach an electrostatic discharge (ESD) grounding strap to your bare wrist, and connect the strap to an approved site ESD grounding point. See the instructions for your site.

2. Connect the grounding cable to a proper earth ground.
3. Verify that a licensed electrician has attached the cable lug provided with the router to the grounding cable.
4. Make sure that grounding surfaces are clean and brought to a bright finish before grounding connections are made.
5. Attach an electrostatic discharge (ESD) grounding strap to your bare wrist, and connect the strap to one of the ESD points on the chassis. For more information about ESD, see the *MX240 Ethernet Services Router Hardware Guide*
6. Place the grounding cable lug over the grounding points on the top rear of the chassis. The grounding point is sized for UNC 1/4-20 bolts.
7. Secure the grounding cable lug to the grounding points, first with the washers, then with the screws.
8. Verify that the grounding cabling is correct, that the grounding cable does not touch or block access to router components, and that it does not drape where people could trip on it.

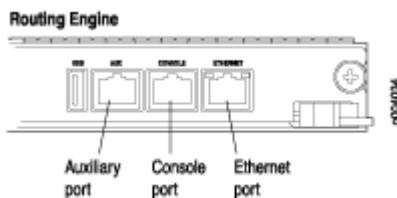
Proceed to ["Step 5: Connect External Devices and DPC or PIC Cables" on page 12](#).

## Step 5: Connect External Devices and DPC or PIC Cables

### IN THIS SECTION

- [Connect to a Network for Out-of-Band Management | 13](#)
- [Connect a Management Console | 13](#)
- [Connect the Line Card Cables | 13](#)

**Figure 8: Routing Engine Management Ports**



## Connect to a Network for Out-of-Band Management

1. Turn off the power to the management device.
2. Plug one end of the RJ-45 Ethernet cable into the appropriate **ETHERNET** port on the Routing Engine.
3. Plug the other end of the cable into the network device.

## Connect a Management Console

1. Turn off the power to the management device.
2. Plug the RJ-45 end of the serial cable into the appropriate **CONSOLE** or **AUX** port on the Routing Engine.
3. Plug the female DB-9 end of the serial cable into the device's serial port.

**NOTE:** We no longer include the RJ-45 console cable with the DB-9 adapter as part of the device package. If the console cable and adapter are not included in your device package, or if you need a different type of adapter, you can order the following separately:

- RJ-45 to DB-9 adapter (JNP-CBL-RJ45-DB9)
- RJ-45 to USB-A adapter (JNP-CBL-RJ45-USBA)
- RJ-45 to USB-C adapter (JNP-CBL-RJ45-USBC)

If you want to use RJ-45 to USB-A or RJ-45 to USB-C adapter you must have X64 (64-Bit) Virtual COM port (VCP) driver installed on your PC. See, <https://ftdichip.com/drivers/vcp-drivers/> to download the driver.

## Connect the Line Card Cables

1. Have ready a length of the type of cable used by the line card. For cable specifications, see the [\*MX Series Interface Module Reference\*](#).
2. If the cable connector port is covered by a rubber safety plug, remove the plug.



**LASER WARNING:** Do not look directly into a fiber-optic transceiver or into the ends of fiber-optic cables. Fiber-optic transceivers and fiber-optic cable connected to a transceiver emit laser light that can damage your eyes.



**CAUTION:** Do not leave a fiber-optic transceiver uncovered except when inserting or removing cable. The safety cap keeps the port clean and prevents accidental exposure to laser light.

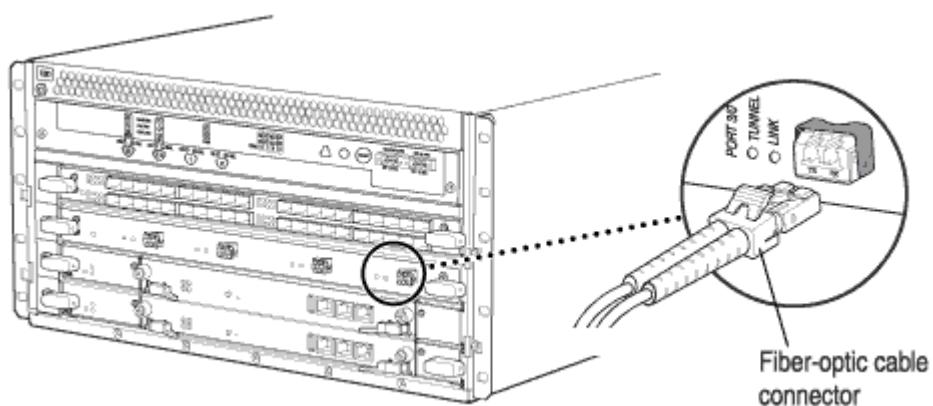


**CAUTION:** Avoid bending fiber-optic cable beyond its minimum bend radius. An arc smaller than a few inches in diameter can damage the cable and cause problems that are difficult to diagnose.



**CAUTION:** Do not let fiber-optic cable hang free from the connector. Do not allow fastened loops of cable to dangle, which stresses the cable at the fastening point.

Figure 9: Connect DPC Cables



Proceed to ["Step 6: Connect Power Cables" on page 15](#).

# Step 6: Connect Power Cables

## IN THIS SECTION

- Connect Power to an AC Router with Normal-Capacity Power Supplies | [15](#)
- Connect Power to an AC Router with High-Capacity Power Supplies | [16](#)
- Connect Power to a DC Router with Normal-Capacity Power Supplies | [17](#)
- Connect Power to a DC Router with High-Capacity Power Supplies | [19](#)

Depending on your configuration, your router uses either normal-capacity or high-capacity AC or DC power supplies. Perform the appropriate procedures for each power supply in your router.



**WARNING:** You must ground the router before connecting either the AC power cord or the DC power cables.

## Connect Power to an AC Router with Normal-Capacity Power Supplies



**WARNING:** The router must be properly grounded before you connect the AC power cords.

1. Attach an electrostatic discharge (ESD) grounding strap to your bare wrist, and connect the strap to one of the ESD points on the chassis. For more information about ESD, see the [MX240 Universal Routing Platform Hardware Guide](#).
2. Locate the power cords, which should have a plug appropriate for your geographical location. See the [MX240 Universal Routing Platform Hardware Guide](#).
3. Move the circuit breaker on the power supply faceplate to the off position (O).
4. Insert the appliance coupler end of the power cord into the appliance inlet on the power supply.
5. Insert the power cord plug into an external AC power source receptacle.

**NOTE:** Each power supply must be connected to a dedicated AC power feed and a dedicated customer site circuit breaker. We recommend that you use a minimum, or as permitted by local code.

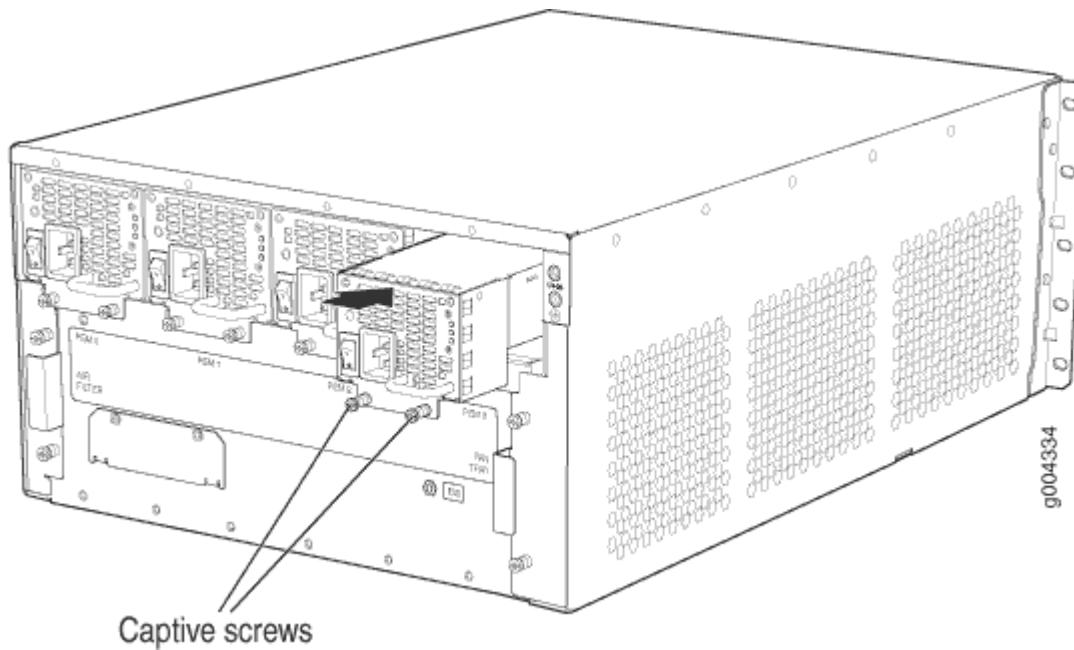
6. Dress the power cord appropriately. Verify that the power cord does not block the air exhaust and access to router components, or drape where people could trip on it.
7. Repeat Step 2 through Step 6 for the remaining power supplies.
8. Switch the AC switch on each power supply to the on position (—) and observe the status LEDs on each power supply faceplate. If an AC power supply is correctly installed and functioning normally, the **AC OK** and **DC OK** LEDs light steadily, and the **PS FAIL** LED is not lit. If any of the status LEDs indicates that the power supply is not functioning normally, repeat the installation and cabling procedures.

## Connect Power to an AC Router with High-Capacity Power Supplies

To install a high-capacity AC power supply:

1. Move the AC input switch next to the appliance inlet on the power supply to the off (O) position.
2. Using both hands, slide the power supply straight into the chassis until the power supply is fully seated in the chassis slot as shown in [Figure 10 on page 17](#). The power supply faceplate should be flush with any adjacent power supply faceplate or blank installed in the power supply slot.
3. Tighten both captive screws at the bottom of the power supply.
4. Attach the power cord to the power supply.
5. Attach the power cord to the AC power source, and switch on the dedicated customer site circuit breaker. Follow the instructions for your site.
6. Move the AC input switch next to the appliance inlet on the power supply to the on (I) position and observe the status LEDs on the power supply faceplate. If the power supply is correctly installed and functioning normally, the **AC OK** and **DC OK** LEDs light steadily and the **PS FAIL** LED is not lit.

Figure 10: Installing an AC Power Supply



## Connect Power to a DC Router with Normal-Capacity Power Supplies



**WARNING:** The router must be properly grounded before you connect the DC power cables.

Table 2: MX240 DC Power System Input Voltage

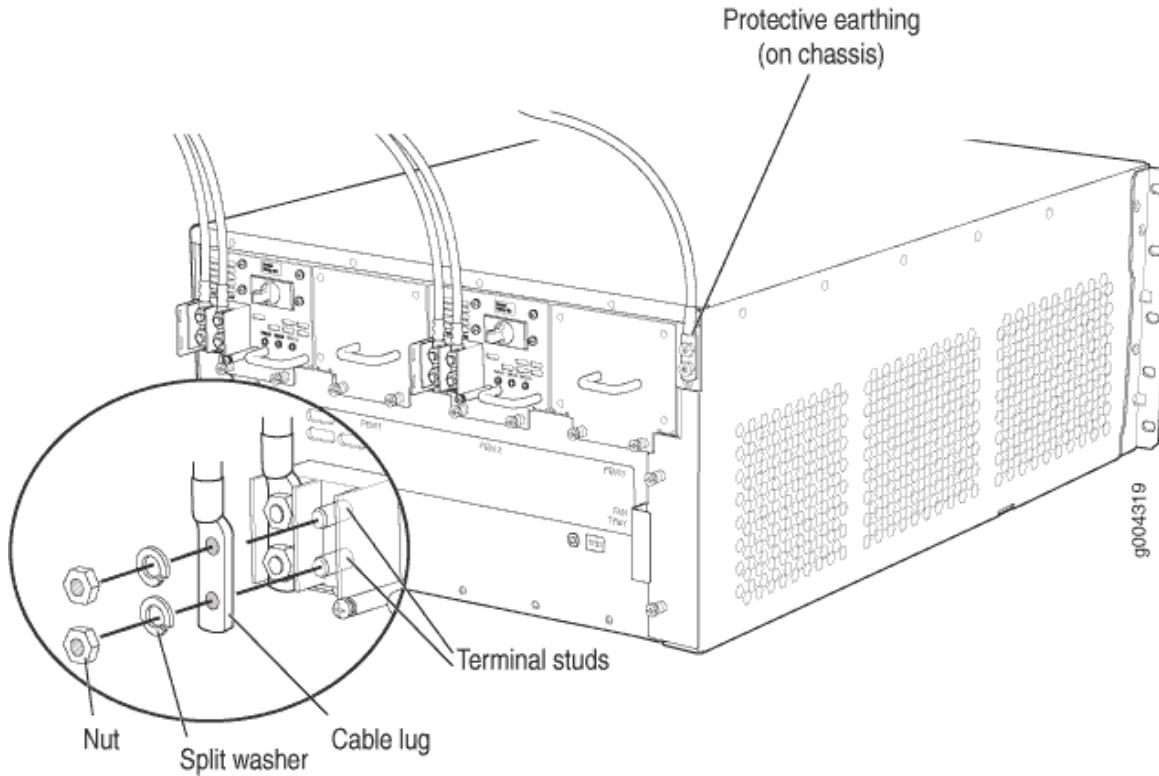
Item	Specification
DC input voltage	Operating range: -40.5 to -72 VDC



**CAUTION:** You must ensure that power connections maintain the proper polarity. The power source cables might be labeled (+) and (-) to indicate their polarity. There is no standard color coding for DC power cables. The color coding used by the external DC power source at your site determines the color coding for the leads on the power cables that attach to the terminal studs on each power supply.

1. Ensure that the voltage across the DC power source cable leads is 0 V and that there is no chance that the cable leads might become active during installation.
2. Attach an electrostatic discharge (ESD) grounding strap to your bare wrist, and connect the strap to one of the ESD points on the chassis. For more information about ESD, see the [MX240 Universal Routing Platform Hardware Guide](#).
3. Switch the circuit breaker on the power supply faceplate to the **OFF** position (O).
4. Remove the clear plastic cover protecting the terminal studs on the faceplate.
5. Secure the power cable lugs to the terminal studs on the power supply, first with the split washer, then with the nut. Apply between 23 lb-in. (2.6 Nm) and 25 lb-in. (2.8 Nm) of torque. Do not overtighten the nut. (Use a 7/16-in. [11 mm] torque-controlled driver or socket wrench.)
  - a. Attach the positive (+) DC source power cable lug to the **RTN** (return) terminal.
  - b. Attach the negative (-) DC source power cable lug to the **-48V** (input) terminal.

**Figure 11: Connect Power Cables**



**CAUTION:** Ensure that each power cable lug seats flush against the surface of the terminal block as you are tightening the nuts. Ensure that each nut is properly

threaded onto the terminal stud. The nut should be able to spin freely with your fingers when it is first placed onto the terminal stud. Applying installation torque to the nut when improperly threaded may result in damage to the terminal stud.



**CAUTION:** The maximum torque rating of the terminal studs on the DC power supply is 36 lb-in. (4.0 Nm). The terminal studs may be damaged if excessive torque is applied. Use only a torque-controlled driver or socket wrench to tighten nuts on the DC power supply terminal studs.

6. Replace the clear plastic cover over the terminal studs on the faceplate.
7. Repeat Step 3 through Step 6 for the remaining power supplies.
8. Attach an electrostatic discharge (ESD) grounding strap to your bare wrist, and connect the strap to an approved site ESD grounding point. See the instructions for your site.
9. Connect each DC power cable to the appropriate external DC power source.

**NOTE:** For information about connecting to external DC power sources, see the instructions for your site.

10. Switch on the external circuit breakers to provide voltage to the DC power source cable leads.
11. Switch on the circuit breakers on each power supply to the **ON** position (|). Observe the status LEDs on each power supply faceplate. If a DC power supply is correctly installed and functioning normally, the **PWR OK**, **BRKR ON**, and **INPUT OK** LEDs light green steadily.

Proceed to ["Step 7: Perform Initial Software Configuration" on page 21](#).

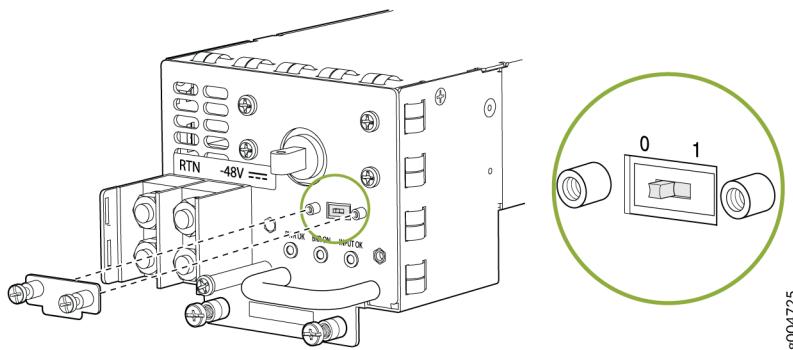
## Connect Power to a DC Router with High-Capacity Power Supplies

To install a DC power supply:

1. Ensure that the voltage across the DC power source cable leads is 0 V and that there is no chance that the cable leads might become active during installation.
2. Move the power switch on the power supply faceplate to the off (**O**) position.
3. Using both hands, slide the power supply straight into the chassis until the power supply is fully seated in the chassis slot. The power supply faceplate should be flush with any adjacent power supply faceplate or blank installed in the power supply slot.
4. Using a screwdriver, loosen the captive screw holding the metal cover over the input mode switch. Rotate the metal cover away from the input mode switch to expose the switch.

- Check the setting of the input mode switch. Use a sharp, nonconductive object to slide the switch to the desired position. Set the input mode switch to position 0 for 60-A input and position 1 for 70-A input. This setting is used by the power management software and needs to be set before on the power supply. See [Figure 12 on page 20](#).

**Figure 12: DC High-Capacity Power Supply Input Mode Switch**



- Rotate the metal cover over the input mode switch, and use a screwdriver to tighten the captive screw.
- Tighten the captive screws on the lower edge of the power supply faceplate.
- Remove the clear plastic cover protecting the terminal studs on the faceplate.
- Remove the nut and washer from each of the terminal studs.
- Secure each power cable lug to the terminal studs, first with the flat washer, then with the split washer, and then with the nut). Apply between 23 lb-in. (2.6 Nm) and 25 lb-in. (2.8 Nm) of torque to each nut. Do not overtighten the nut. (Use a 7/16-in. [11 mm] torque-controlled driver or socket wrench.)
  - Secure the positive (+) DC source power cable lug to the **RTN** (return) terminal.
  - Secure the negative (-) DC source power cable lug to the **-48V** (input) terminal.



**CAUTION:** Ensure that each power cable lug seats flush against the surface of the terminal block as you are tightening the nuts. Ensure that each nut is properly threaded onto the terminal stud. The nut should be able to spin freely with your fingers when it is first placed onto the terminal stud. Applying installation torque to the nut when improperly threaded may result in damage to the terminal stud.



**CAUTION:** The maximum torque rating of the terminal studs on the DC power supply is 36 lb-in. (4.0 Nm). The terminal studs may be damaged if excessive torque is applied. Use only a torque-controlled driver or socket wrench to tighten nuts on the DC power supply terminal studs.

**NOTE:** The DC power supplies in **PEM0** and **PEM1** must be powered by dedicated power feeds derived from feed **A**, and the DC power supplies in **PEM2** and **PEM3** must be powered by dedicated power feeds derived from feed **B**. This configuration provides the commonly deployed **A/B** feed redundancy for the system.

11. Replace the clear plastic cover over the terminal studs on the faceplate.
12. Route the power cables along the cable restraint toward the left or right corner of the chassis. If needed to hold the power cables in place, thread plastic cable ties, which you must provide, through the openings on the cable restraint.
13. Verify that the power cabling is correct, that the cables are not touching or blocking access to router components, and that they do not drape where people could trip on them.
14. Switch on the dedicated customer site circuit breakers. Follow your site's procedures for safety and ESD.

Verify that the **INPUT OK** LED on the power supply is lit green.

15. On each of the DC power supplies, turn the power switch to the on (–) position.

Observe the status LEDs on the power supply faceplate. If the power supply is correctly installed and functioning normally, the **PWR OK**, **BRKR ON**, and **INPUT OK** LEDs light green steadily.

Proceed to ["Step 7: Perform Initial Software Configuration" on page 21](#).

## Step 7: Perform Initial Software Configuration

### IN THIS SECTION

- [Enter Configuration Mode | 22](#)
- [Configure User Accounts and Passwords | 22](#)
- [Configure System Attributes | 23](#)
- [Commit the Configuration | 24](#)

This procedure connects the router to the network but does not enable it to forward traffic. For complete information about configuring the router to forward traffic, including examples, see the Junos OS configuration guides.

To configure the software:

## Enter Configuration Mode

1. Log in as the “root” user. There is no password.
2. Start the CLI.

```
root# cli  
root@>
```

3. Enter configuration mode.

```
cli> configure  
[edit]  
root@#
```

## Configure User Accounts and Passwords

For information about using an encrypted password or an SSH public key string (DSA or RSA), see *Configuring the Root Password* and *user*.

1. Add a password to the root administration user account. Enter a cleartext password.

```
[edit]  
root@host# set system root-authentication plain-text-password  
New password: password  
Retype new password: password
```

2. Create a management console user account.

```
[edit]  
root@host# set system login user user-name authentication plain-text-password
```

```
New Password: password
Retype new password: password
```

3. Set the user account class to super-user.

```
[edit]
root@host# set system login user user-name class super-user
```

## Configure System Attributes

1. Configure the name of the router. If the name includes spaces, enclose the name in quotation marks ("").

```
[edit]
root@# set system host-name host-name
```

2. Configure the router's domain name.

```
[edit]
root@# set system domain-name domain-name
```

3. Configure the IP address and prefix length for the router's Ethernet interface.

```
[edit]
root@# set interfaces fxp0 unit 0 family inet address address/prefix-length
```

4. Configure the IP address of a backup router, which is used only while the routing protocol is not running.

```
[edit]
root@# set system backup-router address
```

5. Configure the IP address of a DNS server.

```
[edit]
root@# set system name-server address
```

## Commit the Configuration

1. Optionally, display the configuration to verify that it is correct.

```
[edit]
root@# show
system {
    host-name host-name;
    domain-name domain-name;
    backup-router address;
    root-authentication {
        authentication-method (password | public-key);
    }
    name-server {
        address;
    }
}
interfaces {
    fxp0 {
        unit 0 {
            family inet {
                address address/prefix-length;
            }
        }
    }
}
```

2. Commit the configuration to activate it on the router.

```
[edit]
root@# commit
```

3. (Optional) Configure additional properties by adding the necessary configuration statements. Then commit the changes to activate them on the router.

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

4. When you have finished configuring the router, exit configuration mode.

```
[edit]
root@host# exit
root@host>
```

## Safety Warnings



**WARNING:** See installation instructions before connecting the router. This is a summary of safety warnings. For a complete list of warnings for this router, including translations, see the [MX240 Universal Routing Platform Hardware Guide](https://www.juniper.net/documentation/) at <https://www.juniper.net/documentation/>.



**WARNING:** The intrabuilding port(s) of the router is suitable for connection to intrabuilding or unexposed wiring or cabling only. The intrabuilding port(s) of the router **MUST NOT** be metallically connected to interfaces that connect to the OSP or its wiring. These interfaces are designed for use as intrabuilding interfaces only (Type 2 or Type 4 ports as described in GR-1089-CORE, Issue 4) and require isolation from the exposed OSP cabling. The addition of primary protectors is not sufficient protection to connect these interfaces metallically to OSP wiring.



**CAUTION:** Before removing or installing components of a router, attach an ESD strap to an ESD point, and place the other end of the strap around your bare wrist. Failure to use an ESD strap could result in damage to the router.



**CAUTION:** Use an external surge protective device (SPD) at the AC input of the router.

- Only trained and qualified personnel should install or replace the router.
- Perform only the procedures described in this quick start or the [MX240 Universal Routing Platform Hardware Guide](https://www.juniper.net/documentation/). Other services should be performed by authorized service personnel only.
- Read the installation instructions before you connect the router to a power source.

- Before installing the router, read the guidelines for site preparation in the [MX240 Universal Routing Platform Hardware Guide](#) to make sure that the site meets power, environmental, and clearance requirements for the router.
- For the cooling system to function properly, the airflow around the chassis must be unrestricted. Allow at least 6 in. (15.2 cm) of clearance between side-cooled routers. Allow 2.8 in. (7 cm) between the side of the chassis and any non-heat-producing surface such as a wall.
- When installing the router, do not use a ramp inclined more than 10 degrees.
- Manually installing the router requires two people for an empty chassis and three people for a fully configured router to lift the chassis. Before lifting the chassis with only two people, remove the components as described in the [MX240 Universal Routing Platform Hardware Guide](#). To prevent injury, keep your back straight and lift with your legs, not your back. Do not attempt to lift the chassis by the power supply handles.
- Mount the router at the bottom of the rack if it is the only unit in the rack.
- When mounting the router in a partially filled rack, load the rack from the bottom to the top with the heaviest component at the bottom of the rack.
- If the rack is provided with stabilizing devices, install the stabilizers before mounting or servicing the router in the rack.
- When removing or installing an electrical component, always place it component-side up on a flat antistatic surface or in an electrostatic bag.
- When you install the router, always make the ground connection first and disconnect it last.
- Wire the DC power supply using the appropriate lugs. When connecting power, the proper wiring sequence is ground to ground, +RTN to +RTN, then -48 V to -48 V. When disconnecting power, the proper wiring sequence is -48 V to -48 V, +RTN to +RTN, then ground to ground. Always connect the ground wire first and disconnect it last.
- Do not work on the system or connect or disconnect cables during electrical storms.
- Before working on equipment that is connected to power lines, remove jewelry, including rings, necklaces, and watches. Metal objects heat up when connected to power and ground and can cause serious burns or become welded to the terminals.
- Failure to observe these safety warnings can result in serious physical injury.
- AC power cable warning (Japan):



**WARNING:** The attached power cable is only for this product. Do not use the cable for another product.

### 注意

附属の電源コードセットはこの製品専用です。  
他の電気機器には使用しないでください。

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