

Create Initial Configuration

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Create the Initial Router Configuration

You must assign an IP address to the router management interface so that you can then connect the router to the network.

When you initially power up the router, it boots up and asks a series of questions to help configure the router. To enable you to connect the router to the network, you can use the default choices for each configuration except for the IP address, which you must provide.



Note

These routers are designed to boot up in less than 30 minutes, provided the neighboring devices are in full operational state.



Note

Be aware of the router's unique name to identify it among the other devices in the network.

Before you begin

- A console device must be connected with the router.
- The router must be connected to a power source.
- Determine the IP address and netmask needed for the Management interfaces: MgmtEth0/RP0/CPU0/0 and MgmtEth0/RP1/CPU0/0:

Procedure

Step 1 Power up the router.

The LEDs on each power supply light up (green) when the power supply units are sending power to the router, and the software asks you to specify a password to use with the router.

Step 2 When the system is booted up for the first time, a new username and a password is to be created. The following prompt appears:

Step 3 Enter a new password to use for this router.

The software checks the security strength of it and rejects your password if it is not considered to be a strong password. To increase the security strength of your password, make sure that it adheres to the following guidelines:

- · At least eight characters
- Minimizes or avoids the use of consecutive characters (such as "abcd")
- Minimizes or avoids repeating characters (such as "aaa")
- Does not contain recognizable words from the dictionary
- Does not contain proper names
- Contains both uppercase and lowercase characters
- · Contains both numbers and letters

Note Clear text passwords cannot include the dollar sign (\$) special character.

Tip If a password is trivial (such as a short, easy-to-decipher password), the software rejects the password configuration. Be sure to configure a strong password as described by the guidelines in this step. Passwords are case sensitive.

If you enter a strong password, the software asks you to confirm the password.

Step 4 Reenter the password.

When you enter the same password, the software accepts the password.

- **Step 5** Enter the IP address for the management interface.
- **Step 6** Enter a network mask for the management interface.

- **Step 7** The software asks whether you want to edit the configuration. Enter **no** to not edit the configuration.
- **Step 8** The software asks whether you want to save the configuration. Enter **yes** to save the configuration.

Verify Chassis Installation

After installing the chassis, use the following **show** commands to verify the installation and configuration. If any issue is detected, take corrective action before making further configurations.

Command	Description
show inventory	Displays information about the field replaceable units (FRUs), including product IDs, serial numbers, and version IDs.
show environment	Displays all of the environment-related router information.

Command	Description
show environment temperature	Displays temperature readings for card temperature sensors. Each system controller, route processor, line card, and fabric card has temperature sensors with two thresholds:
	• Minor temperature threshold – When a minor threshold is exceeded, a minor alarm occurs and the following actions occur for all four sensors:
	Displays system messages
	Sends SNMP notifications (if configured)
	Log environmental alarm event that can be reviewed by running the show alarm command.
	Major temperature threshold – When a major threshold is exceeded, a major alarm occurs and the following actions occur:
	• For sensors 1, 3, and 4 (outlet and onboard sensors), the following actions occur:
	Displays system messages.
	Sends SNMP notifications (if configured).
	Logs environmental alarm event that can be reviewed by running the show alarm command.
	• For sensor 2 (intake sensor), the following actions occur:
	• If the threshold is exceeded in a switching card, only that card is shut down.
	 If the threshold is exceeded in an active route processor card with HA-standby or standby present, only that route processor card is shut down and the standby route processor card takes over.
	• If you do not have a standby route processor card in your router, you have up to 2 minutes to decrease the temperature. During this interval, the software monitors the temperature every 5 seconds and continuously sends system messages as configured.
	Note Cisco recommends that you install dual route processor cards. If you are using a router without dual route processor cards, Cisco recommends that you immediately replace the fan card if just one fan is not working.
show environment power	Displays the power usage information for the entire router.
show environment voltage	Displays the voltage for the entire router.
show environment current	Displays the current environment status.
show environment fan	Displays the status of the fan trays.