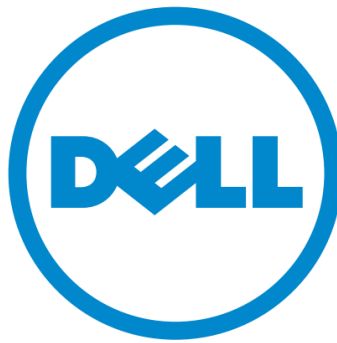




DELL C150 Networking Chassis-based Switch System User Guide

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C150 Networking Chassis-based Switch System User Guide

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C150 Networking Chassis-based Switch System


Notes, Cautions, and Warnings



NOTE: A NOTE indicates important information that helps you make better use of your computer.



CAUTION: A CAUTION indicates potential damage to hardware or loss of data if instructions are not followed.

 **WARNING:** A WARNING indicates a potential for property damage, personal injury, or death. If you purchased a Dell n Series computer, any references in this publication to Microsoft Windows operating systems are not applicable.

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About this Guide

This document is intended as a Quick Start Guide to get new systems up and running and ready for configuration. For complete installation and configuration information, refer to the following documents:


Documentation	C150	C300
Hardware installation and power-up instructions	Installing and Maintaining the C150 System	Installing and Maintaining the C300 System
Software configuration	FTOS Configuration Guide	FTOS Configuration Guide
Command line interface	FTOS Command Line Reference Guide	FTOS Command Line Reference Guide
Latest updates	FTOS Release Notes for Series	FTOS Release Notes for Series


Installing the Hardware

This guide assumes all site preparation has been performed before installing the chassis.


Installing the Chassis

To install the C150/300 chassis, Dell Networking recommends that you complete the installation procedures in the order presented below.

 **NOTE:** Unless stated otherwise, the installation instructions below apply to both the C150 and C300 chassis. Always handle the system and its components with care. Avoid dropping the switch or its field replaceable units.

 **CAUTION:** Always wear an ESD-preventive wrist or heel ground strap when handling the chassis and its components. As with all electrical devices of this type, take all necessary safety precautions to prevent injury when installing this system. Electrostatic discharge (ESD) damage can occur if components are mishandled.

Installing the Chassis in a Two-Post Rack

 **WARNING:** Use an equipment lift or pallet jack when lifting or moving the chassis. Install the chassis into the rack before inserting chassis components.

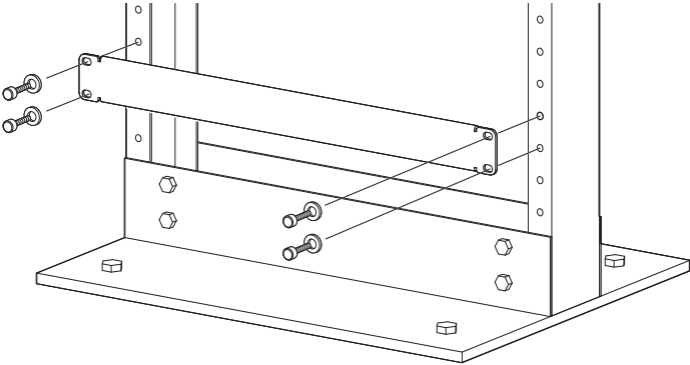
Lift the C150/300 chassis only from the bottom. Lifting by the chassis shelves or power supply openings might

damage the chassis.

⚠ WARNING: To prevent bodily injury when mounting or servicing this unit in a rack, you must take special precautions to ensure that the system remains stable. The following guidelines are provided to ensure your safety:

- This unit should be mounted at the bottom of the rack if it is the only unit in the rack.
- When mounting this unit 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 unit in the rack.

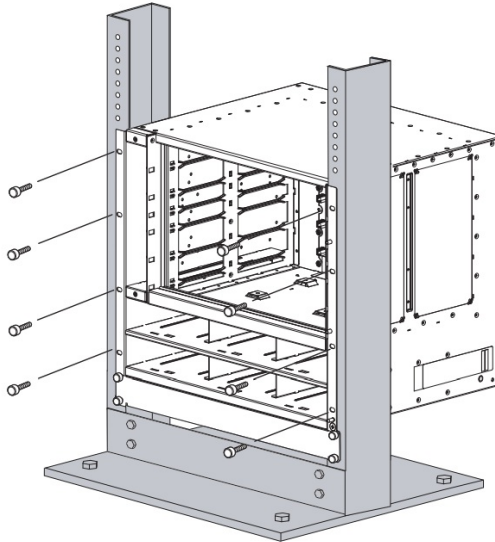
Follow these steps to install the chassis into a 19-inch equipment rack:

Step	Task
1	Determine the chassis mounting location in the equipment rack.
2	Orient the bar with the arrows pointing upward. The smooth side of the bar should face outward.
3	Attach the bar to the equipment rack brackets using the mounting screws provided by the rack manufacturer. <div></div>
4	Use an equipment lift to align the chassis rack-mount holes with the equipment rack holes, and situate the chassis on top of the equipment rack bar.

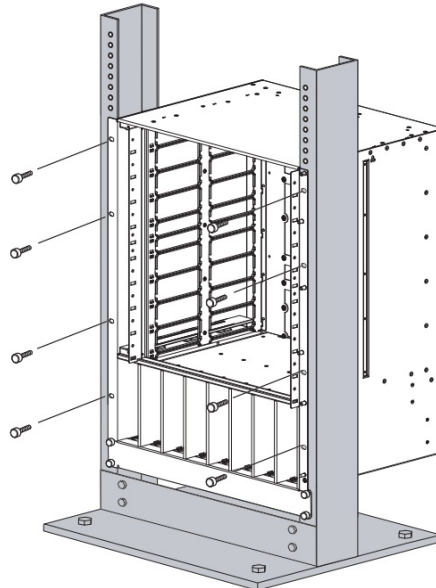
Step	Task
------	------

Insert screws (provided with your rack) through the chassis rackmounting bracket and into the equipment rack, and tighten them.

Rack Mounting the C150 Chassis



Rack Mounting the C300 Chassis



Installing Power Modules



CAUTION: Do not install the Power Supply 1200W-AC and Power Supply 1600W-AC in the same chassis. The line cards will power down and data may be lost.

If there is a failure in the power supply, it must be replaced. Power supplies are not field serviceable.

The C150 has six power supply slots at the front-bottom of the chassis. The C300 has eight power supply slots at the front-bottom of the chassis. The slots accept either AC Power Supplies (PSUs).

AC Power Supplies

- There are two types of power supplies: Power Supply 1200W-AC and Power Supply 1600W-AC. The minimum and the redundant power supplies required to operate is listed in the table below. Dell Networking recommends the redundancy configuration.

		Voltage	Minimum PSUs	Minimum with Redundant PSUs
C150	Power Supply 1200W	100-120	1	2
	AC/Power Supply 1600W-AC	200-240	1	2
C300	Power Supply 1200W AC/Power Supply 1600W-AC	100-120	2	3
	Power Supply 1200W-AC 200-240	200-240	2	3
	Power Supply 1600W-AC 200-240	200-240	1	2

- To protect against high-voltage shock, install a power supply blank on all unused power supply slots.
- Connect the AC power supply to the appropriate branch circuit protection as defined by local electrical codes.
- Verify that the remote power source complies with the system input power specifications.

⚠ WARNING: Use only the AC power cord supplied with the AC power supply. Do not supply power to your system until the power supplies and fan tray are installed, and RPMs and line cards have been installed.

⚠ WARNING: This product relies on the building's installation for short-circuit (overcurrent) protection. Ensure that a fuse or circuit breaker no larger than 120 VAC, 15A U.S. (240 VAC, 10A international) is used on the phase conductors (all current-carrying conductors).

⚠ WARNING: The C300 does not have a main disconnect device installed. It is the responsibility of the installer to provide a suitable disconnecting device in the building installation and ensure that it is located/installed near the equipment and is easily accessible.

⚠ WARNING: The C300 and C150 operates in either of two voltage ranges. The different power supply configuration supported is listed in the table below. As a safety precaution, do not install more than the recommended maximum number of PSUs (given by the table below), as this causes high leakage current. Install blank panels in all unused PSU slots.

	Voltage	Frequency	Maximum PSUs
C150	100-120	50/60Hz	5 primary + 1 redundant
	200-240	50/60Hz	5 primary + 1 redundant
C300	100-120	50/60Hz	7 primary + 1 redundant
	200-240	50/60Hz	7 primary + 1 redundant

Step	Task
1	Verify the switch is in the OFF (left) position.
2	Secure the retaining latch in the unlatched position by tightening the screw into the threaded hole.
3	Slide the power supply into the top left-most power supply slot.
	Dell Networking recommends installing power supplies starting from the left side, top row of the chassis, leaving no blank slots between units.
4	Lower the retaining latch, and tighten it into place.
5	Plug the AC power cord into the power receptacle in the face of the power supply.
6	Plug the power cord into an AC power outlet.

NOTE: The higher power of PoE+ (30W/port) is available only with Power Supply 1600W-AC and the PoE+ line card. When using PoE line card or PoE+ line card and Power Supply 1200W-AC, only 15.4W/port power is available. The maximum power per port is listed in the table below.

	Power Supply 1200W-AC	Power Supply 1600W-AC at lowline (100-120V)	Power Supply 1600W-AC at highline (200-240V)
PoE linear	15.4W/port	15.4W/port	15.4W/port
PoE+ linear	15.4W/port	30W/port	30W/port

Installing RPMs and Line Cards

The C150 system accommodates four Line Cards and two Route Processor Modules (RPMs).

The C300 System accommodates eight line cards and two Route Processor Modules (RPMs).

RPMs

The C-Series system requires at least one Route Processor Module (RPM); two are recommended.

- One RPM provides 48 Gigabits of bandwidth to each line card.
- Two RPMs provides 96 Gigabits of bandwidth to each line card.
- Blanks are required in empty slots to control airflow for adequate system cooling, personal safety, and EMI containment during operation. All chassis slots must be installed with operational modules or blanks. Always replace cards and blank panels immediately.
- The blank panels for RPMs and line cards are different sizes (RPM blanks are smaller); be sure that blank panels are installed in the correct slots.
- RPMs are hot-swappable. High Availability is supported.
- If your system contains two RPMs, both RPMs must have the same software image.
- RPMs are interchangeable between the C300 and the C150 only if they are running FTOS version 7.6.1.0 or later.



CAUTION: RPMs are designed to be installed in either the R0 or R1 slot. Do not force RPMs into line card slots. RPMs are keyed differently than line cards to prevent improper installation.


Line Cards


Line cards are hot-swappable. Any line card can be inserted into any line card slot. On the C150, line card slots


are numbered 0 to 3. On the C300, Line card slots are labeled 0 to 7. The slot numbering labels can be seen when the fan tray is installed.



- The LC-CB-GE-48P and LC-CB-10GE-8P line cards are interchangeable between the C300 and C150 only if the chassis is running FTOS version 7.6.1.0 or later.
- Blanks are required in empty slots to control airflow for adequate system cooling, personal safety, and EMI containment during operation. All chassis slots must be installed with operational modules or blanks. Always replace cards and blank panels immediately.

Installing RPMs and Line Cards

 **WARNING:** Always wear an ESD-preventive wrist or foot-heel ground strap when handling RPMs or line cards. Place RPMs and line cards on an antistatic surface when they are not installed. Electrostatic discharge (ESD) damage can occur when components are mishandled.


 **CAUTION:** Unlock the levers before inserting the line card into the chassis. Fully engage the locking mechanism after the card has been inserted; not doing so might damage the card below it when that lower card is inserted.


 **NOTE:** The fan tray face panel has slot number markings for the RPMs and line cards. Insert the fan tray before the line cards to simplify RPM and line card installation.

Step	Task
1	Extend the left and right card levers by first pressing gently down on the thumb tabs in the ejector levers and then pulling the ejector levers simultaneously until they are in the open position.
2	Hold the card assembly by the metal carrier edges. Avoid touching the printed circuit board and connector pins.
3	Align the card with the guide, and gently slide it into any line card slot until the card is about halfway into the slot.  NOTE: Use the markings on the fan tray to determine which slots are for the RPMs and which are for the line cards.
4	Continue sliding the card until you feel the connectors engage with the chassis backplane.
5	Rotate the levers toward the card to seat the backplane connectors and line card in place. Push on the knurled section of the levers until the thumb tabs pop up and lock the unit in place.  CAUTION: Installing a card without fully engaging the locking mechanism might damage the EMI seal on the card below it when that card is inserted.
6	Install a blank panel in all slots that do not have a card, and secure it with the screws provided.

Installing the Fan Tray

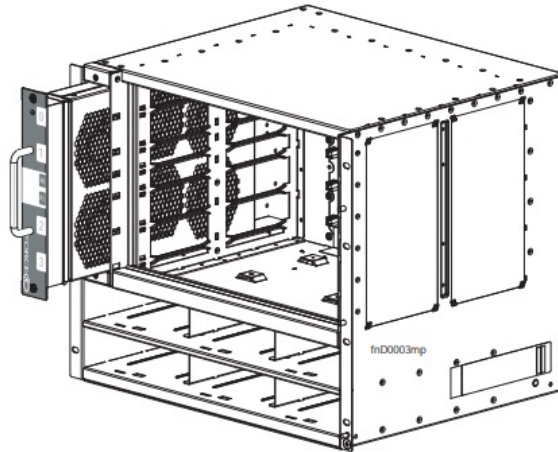
The C-Series chassis contains one field-replaceable fan tray. There are two types of fan tray that may be installed: one contains six fans that run at varying speeds depending on system temperature; the other one contains six fans that run at a constant speed. For both types of trays, air flows through the system toward the fans (right to left) and is exhausted on fan-side of the chassis. The fan tray is accessible from the front of the chassis.

 **WARNING:** To ensure proper temperature and airflow control, the fan tray must always be installed and operating properly.

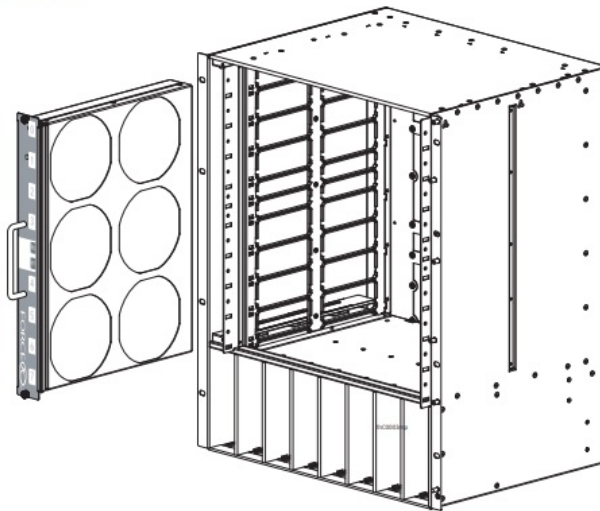
 **NOTE:** The system does not have an air filter so take special care in making sure that the installation site and the chassis itself are cleaned regularly.

Step	Task
1	Slide the fan tray into the fan slot.
2	Gently push on the front of the tray until it stops. The fan tray should be flush with the chassis.
3	Use a #2 Phillips screwdriver to secure the fan tray into place by tightening the screws at the top and bottom of the fan tray.

C150



C300



NOTE: The fan tray LED will remain lit when the chassis is powered up and the fan tray is functioning properly.

Power Up Sequence

Before you supply power to the chassis, Dell Networking recommends that you re-inspect your equipment rack and chassis.



CAUTION: Never operate the system without a fan tray. To supply power to the system:

Step	Task
1	Verify that the power source complies with the system input power requirements.
2	Energize the remote power source or outlet.
3	On the C150, toggle the switch on the AC power supplies to the ON (right) position. On the C300, toggle the switch on the AC power supplies to the ON (top) position.
4	The power supply LEDs should be green. If these LEDs are not lit green: <ul style="list-style-type: none"> • Check that the unit is properly installed. • Verify the power source. • If the power supply cannot be verified, power off all modules and replace the unit.
5	The fan tray LED should be green (online). You should be able to hear the air flowing through the chassis. If the fans are not operating properly or air is not flowing through the chassis: <ul style="list-style-type: none"> • Power off all power supplies. • Verify that the fan tray is properly installed. • If the fan tray LED remains unlit, power down the unit, and replace the fan tray.

After you supply power to the system, the following should occur:

- The fan tray should be operating.
- The green (online) fan tray, RPM, and line card LEDs should be lit and remain lit as long as the system is receiving power and is operational.

When you supply power to the chassis, the system performs a series of power-on self tests. RPM and line card LEDs blink as the diagnostic programs run. No user interaction is required at this point. Observe the process on your console monitor. When the boot process is complete, the card LEDs remain online (green) and the console monitor displays the Command Line Interface (CLI) prompt.

Specifications

Chassis Physical Design

Parameter	C150 Specifications	C300 Specifications
Height	15.7 inches (39.88 cm)	22.7 inches (57.66 cm)
Width	17.5 inches (44.45 cm)	17.4 inches (37.58 cm)
Depth	15.3 inches (38.86 cm)	14.4 inches (44.20 cm)
Chassis weight	38 lbs (17.24 kg) with factory installed components	55 lbs (24.95 kg) with factory installed components
	86.63 lbs (39.29 kg) fully loaded	152.27 lbs (69.07 kg) fully loaded

Environmental Parameters

C150 Specifications	C300 Specifications
-40° to 158°F (-40°C to 70°C) (storage temperature)	-40° to 158°F (-40°C to 70°C) (storage temperature)
5 to 95% (non-condensing)	5 to 95% (non-condensing)

AC Power Requirements

Power Supply 1600W-AC

Parameter	C150 Specifications	C300 Specifications
Nominal input voltage	100-240 V 50/60 Hz	100-240 VAC 50/60 Hz
Maximum AC Power	14 A @ 100 V per AC Power	14 A @ 100 V per AC Power
Supply Input Current	Supply	Supply
(Based on 1200 W output for 100/120 V and 1600 W output	11 A @ 120 V per AC Power Supply	11 A @ 120 VAC per AC Power Supply
200/240 V lines)	9 A @ 200 V per AC Power Supply	9 A @ 200 VAC per AC Power Supply
	7 A @ 240 V per AC Power Supply	7 A @ 240 VAC per AC Power Supply
Maximum System	6,897 KVA @ 100/120 V	9,667 KVA @ 100/120 V
Power Input	7,315 KVA @ 200/240 V	12,596 KVA @ 200/240 V

Parameter	C150 Specifications	C300 Specifications
Maximum power consumption	1,647 W @ 100/120 V 1,555 W @ 200/240 V	2,707 W @ 100/120 V 2,726 W @ 200/240 V
Maximum Thermal Output at 100 /120 V	5,618 BTU/hour	9,235 BTU/hour
Maximum Thermal Output at 200 /240 V	5,304 BTU/hour	9,299 BTU/hour

Power Supply 1200W-AC

Parameter	C150 Specifications	C300 Specifications
Nominal input voltage	100-240 V 50/60 Hz	100-240 VAC 50/60 Hz
Maximum AC Power	14 A @ 100 V per AC Power	14 A @ 100 V per AC Power
Supply Input Current	Supply	Supply
(Based on 1200 W output for both 100/120 V and 200/240 V lines)	11 A @ 120 V per AC Power Supply 7 A @ 200 V per AC Power Supply	11 A @ 120 VAC per AC Power Supply 7 A @ 200 VAC per AC Power Supply
	6 A @ 240 V per AC Power Supply	6 A @ 240 VAC per AC Power Supply
Maximum System Power Input	4,261 KVA @ 100/120 V	8,274 KVA @ 100/120 V
	4,165 KVA @ 200/240 V	8,088 KVA @ 200/240 V
Maximum power consumption	1,304 W @ 100/120 V 1,208 W @ 200/240 V	2,361 W @ 100/120 V 2,175 W @ 200/240 V
Maximum Thermal Output at 100/120 V	4,449 BTU/hour	8,055 BTU/hour
Maximum Thermal Output at 200/240 V	4,122 BTU/hour	7,420 BTU/hour

Installing the Software

Navigating CLI Modes

The FTOS prompt changes to indicate the CLI mode. You must move linearly through the command modes, with the exception of the end command which takes you directly to EXEC Privilege mode; the exit command moves you up one command mode level.

Console Access

The console port is an asynchronous serial port. If you connect a device to these ports, it must be capable of asynchronous transmission.

Step	Task
1	Install an RJ-45 copper cable into the console port. Use a rollover cable to connect the C150 or C300 console port to a terminal server.
2	Connect the other end of the cable to the DTE terminal server.
3	Your terminal or terminal emulation mode must be set to VT100 with the following settings: 9600 baud rate (To avoid autobaud input, the default is set to a 9600 BPS.) No parity 8 data bits 1 stop bit Window Terminal Emulator option set to NO 24 lines X 80 characters No flow control

Cable and Adapter Pin Assignments

Use the console port on the RPM of the C150 or C300 to connect to a terminal port, PC serial port, or a terminal server to configure and monitor your system.

An RJ-45 Ethernet cable is required to connect to the Ethernet port. The console port is an RJ-45 and the pinouts are listed in Table 2-1.

Table 2-1. Pin Assignments for Console Port (RJ-45)

Pin	Signal	Input/Output
1	NC (unused	—
2	DTR	Output
3	TxD	Output
4	GND	—
5	5GND	—
6	RxD	Input
7	DSR	Input
8	NC (unused	—

Accessing the Console with a DB-9 Adapter

You can connect to the console using an RJ-45 to RJ-45 rollover cable and an RJ-45 to DB-9 female DTE adapter (labeled “TERMINAL”) to a terminal server (for example, PC).

Table 2-2. Pin Assignments Between the Console and a DTE Terminal Server

Console Port	RJ-45 to RJ-45	Rollover Cable	RJ-45 to DB-9 Ad
Signal	RJ-45 Pinout	RJ-45 Pinout	DB-9 Pin
RTS	1	8	8
DTR	2	7	6
TxD	3	6	2
GND	4	5	5

Table 2-2. Pin Assignments Between the Console and a DTE Terminal Server

Console Port	RJ-45 to RJ-45	Rollover Cable	RJ-45 to DB-9 Adapte
Signal	RJ-45 Pinout	RJ-45 Pinout	DB-9 Pin
GND	5	4	5
RxD	6	6	6
DSR	7	2	4
CTS	8	8	8

Accessing the Console with a DB-25 Adapter

You can connect to the console port using an RJ-45 to RJ-45 rollover cable and an RJ-45 to a DB-25 female DTE adapter.

Table 2-3. Pin Assignments Between the Console and a DTE Terminal Server

Console Port	RJ-45 to RJ-45	Rollover Cable	RJ-45 to DB-25 Modem Adapter	Terminal Server Device
Signal	RJ-45 Pinout	RJ-45 Pinout	DB-25 Pinout	Signal
RTS	1	8	5	CTS
DTR	2	7	6	DSR
TxD	3	6	3	RxD
GND	4	5	7	GND
GND	5	4	7	GND
RxD	6	3	2	TxD
DSR	7	2	20	DTR
CTS	8	1		RTS

Default Configuration

A version of the Dell Networking Operating System (FTOS) is pre-loaded onto the chassis, however the system is not configured when you power up for the first time (except for the default host name, which is Force10). You must configure the system using the Command Line Interface (CLI).

Configure Layer 2 (Data Link) Mode

Use the switchport command in INTERFACE mode to enable Layer 2 data transmissions through an individual interface. The user cannot configure switching or Layer 2 protocols such as the spanning tree protocol on an interface unless the interface has been set to Layer 2 mode.

Step	Task	Command Syntax	Command Mode
1	Enable the interface.	no shutdown	INTERFACE
2	Place the interface in Layer 2 (switching) mode.	switchport	INTERFACE

To view the interfaces in Layer 2 mode, use the show interfaces switchport command in the EXEC mode.

Configure a Host Name

The host name appears in the prompt. The default host name is force10.

- Host names must start with a letter and end with a letter or digit.
- Characters within the string can be letters, digits, and hyphens.

Task	Command Syntax	Command Mode
Create a new host name.	hostname name	CONFIGURATION

Access the System Remotely

You can configure the system to access it remotely by Telnet.

The 150 and C300 systems have a dedicated management port and a management routing table that is separate from the IP routing table. Configuring the system for Telnet is a three-step process:

Step	Task
1	Configure an IP address for the management port.
2	Configure a management route with a default gateway.
3	Configure a username and password.

Configure the Management Port IP Address

Assign IP addresses to the management ports in order to access the system remotely.



NOTE: Assign different IP addresses to each RPM's management port.

Step	Task	Command Syntax	Command Mode
1	Enter INTERFACE mode for the Management port.	interface Management Ethernet slot/port	CONFIGURATION
2	Assign an IPv4 or IPv6 address to the interface.	ip address {ipv4-address ipv6-address}/mask	INTERFACE
3	Enable the interface.	no shutdown	INTERFACE

Configure a Management Route

Define a path from the system to the network from which you are accessing the system remotely. Management routes are separate from IP routes and are only used to manage the system through the management port.

Task	Command Syntax	Command Mode
Configure an IPv4 or IPv6 management route to the network from which you are accessing the system.	management route {ipv4-address ipv6-address}/mask gateway	CONFIGURATION

Configure a Username and Password

Configure a system username and password to access the system remotely.

Task	Command Syntax	Command Mode
Configure a username and password to access the system remotely.	username username password [encryption-type] password	CONFIGURATION

Configure the Enable Password

The EXEC Privilege mode is accessed by the enable command. Configure a password as a basic security measure. When using a console connection, EXEC Privilege mode is unrestricted by default; it cannot be reached by a VTY connection if no password is configured. There are two types of enable passwords:

- enable password stores the password in the running/startup configuration using a DES encryption method.
- enable secret is stored in the running/startup configuration by using a stronger, MD5 encryption method.

Dell Networking recommends using the enable secret password.

Task	Command Syntax	Command Mode
Create a password to access EXEC Privilege mode.	enable [password secret] [level level] [encryption-type] password	CONFIGURATION

Create a VLAN

The Default VLAN is part of the system startup configuration, and is by default, VLAN 1. You may make another VLAN the Default VLAN. The Default VLAN cannot be deleted, disabled, or configured (you cannot assign it an IP address), and only untagged interfaces can belong to it.

When an interface is configured, a switchport automatically places it in the default VLAN as an untagged interface. All switchports must belong to at least one VLAN, so to remove a switchport from the Default VLAN, you must place it as tagged or untagged in some other VLAN, or remove the switchport configuration.

Task	Command Syntax	Command Mode
Create a VLAN	interface vlan vlan-id	CONFIGURATION
Display all VLANs.	show vlan vlan-id	EXEC Privilege

Assign Interfaces to a VLAN

A port may either be an untagged member of a single VLAN, or a tagged member of perhaps multiple VLANs.

- **Untagged Ports** — ports that do not append an 802.1Q VLAN tag to frames on egress, and do not accept tagged frames on ingress (tagged frames are dropped). Untagged ports must be connected to VLAN-unaware devices.
- **Tagged Ports** — ports that append an 802.1Q tag to frames on egress, and accept only tagged frames on ingress (untagged frames are dropped). Tagged ports must be connected to VLAN-aware devices.

When you configure an enabled port as a switchport, the port is placed in the default VLAN. To remove a switchport from the default VLAN, remove the switchport configuration. To move the port to another VLAN, add it to the desired VLAN as either a tagged or untagged member.

To view just the interfaces that are in Layer 2 mode, enter the show interfaces switchport command in the EXEC mode.

Task	Command Syntax	Command Mode
Assign a switchport to a VLAN.	[tagged untagged] interface	INTERFACE VLAN
Display all switchports and the VLANs of which they are members.	show vlan	EXEC Privilege

Assign an IP address to a VLAN

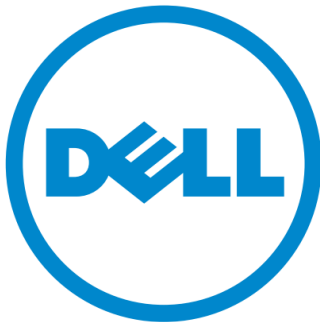


NOTE: An IP address cannot be assigned to the Default VLAN, which, by default, is VLAN 1. To assign another VLAN ID to the Default VLAN, use the default vlan-id vlan-id command.

Task	Command Syntax	Command Mode
Configure an IP address and mask on the interface.	ip address ip-address mask [secondary]	INTERFACE

Connecting the Chassis to the Network

Once you have completed the hardware installation and software configuration, you can connect to your company network by following your company’s cabling requirements.



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Documents / Resources

<div><div>Dell Networking</div><div>C150 and C300 Systems</div><div>Quick Start Guide</div></div> <div></div>	<div>DELL C150 Networking Chassis-based Switch System [pdf] User Guide</div> <div>C150, C300, C150 Networking Chassis-based Switch System, Networking Chassis-based Switch System, Chassis-based Switch System, Switch System</div>
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References

- ^{MH} [Search - Manual-Hub.com](#)