



Virtual Services Platform 8608 Chassis Installation

This poster provides information and instructions to install and commission Extreme Networks Virtual Services Platform 8608 switch.

1 Prerequisites

- Complete the site preparation for installation clearance and grounding requirements for the chassis.
- Ensure that your environment meets the necessary requirements. For more information, see Installing the Virtual Services Platform 8600 (NN47229-300).
- Ensure there is a minimum of two people to install the chassis. The chassis weighs approximately 70 pounds (31.8 kilograms). It is recommended to use a mechanical lift to support the chassis during installation.

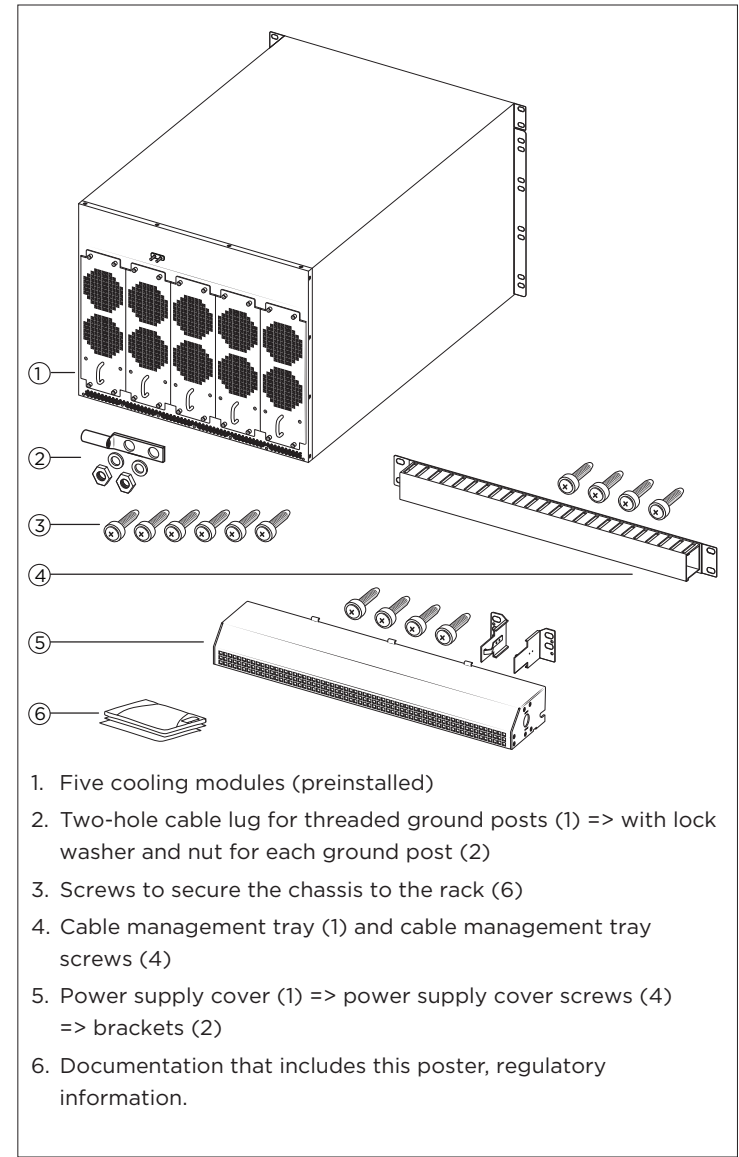
Gather the following tools and cables:

- Phillips #2 screwdriver and socket wrench
- #8-AWG ground wire that is long enough to connect to the ground point
- Crimping tool
- RJ-45 console port cable
- AC or DC power supply cords
- Mechanical lift, if available

Note: Observe Electrostatic discharge (ESD) precautions when unpacking and installing equipment.

2 Unpack the equipment and verify package content

VSP 8608 chassis includes the following:



3 Mount the chassis

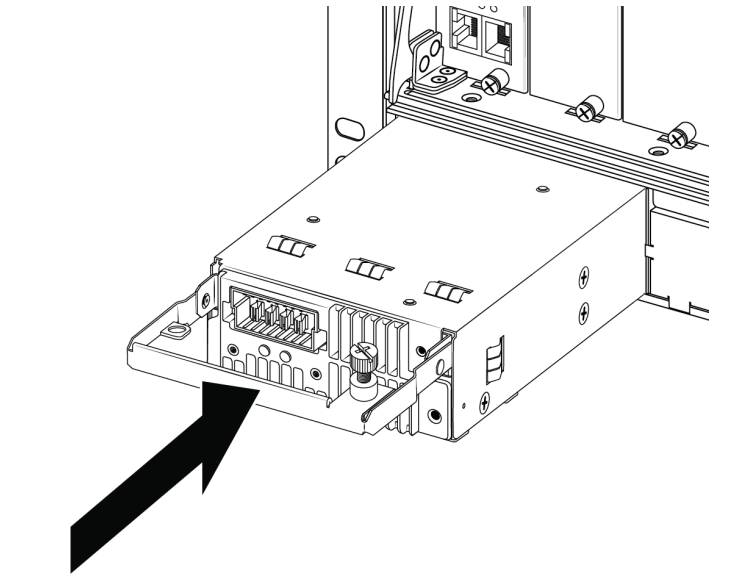
1. Determine where you want to install the chassis in the rack, and attach the clips.
TIP: If you use the cable management tray, ensure you leave space in the rack above the chassis to accommodate the tray.
2. Use a mechanical lift to support the chassis, and hold it in place.
3. With the chassis lined up to the rack, insert the screws through the flange on the chassis to connect with the nuts in the clips.
4. Use a Phillips #2 screwdriver to secure the chassis in the rack.

4 Ground the VSP 8608 chassis

1. Crimp the two-hole cable lug onto the #8-AWG ground wire.
2. Attach the two-hole cable lug onto the ground posts, and use a lock washer and nut to secure to each post.
3. Bond the chassis ground cable to the single point ground.

5 Install AC or DC power supply modules

1. Locate the bay where you want to install the power supply unit.
2. Remove the metal cover plate.
3. Pull up on the lever bar until it reaches straight out, and forms a 90° angle with the front of the power supply.
4. Slide the power supply into the chassis, and apply light hand pressure until the connector at the rear of the power supply connects with the backplane. The following is an example of a DC power supply.



5. Push down on the lever bar to latch the power supply into place.
6. Turn the captive screw to secure the power supply to the chassis.
7. Repeat for each power supply.

6 Verify AC or DC power supply unit specifications

Description	Country specific part number
3000 W 100-240 VAC AC power supply	EC8605A01-E6 (no power cord)
2500 W DC power supply DC power cord (ordered separately)	EC8605A02-E6 (DC power supply) AA0020112-E6 (DC power cord)

For a complete list of international power cords, see Installing the Virtual Services Platform 8600 (NN47229-300).

7 Connect the power supply units

! Important: The chassis does not have a power switch. When you connect the AC or DC power source to the AC or DC power supply, the switch powers up immediately.

AC Power Supply

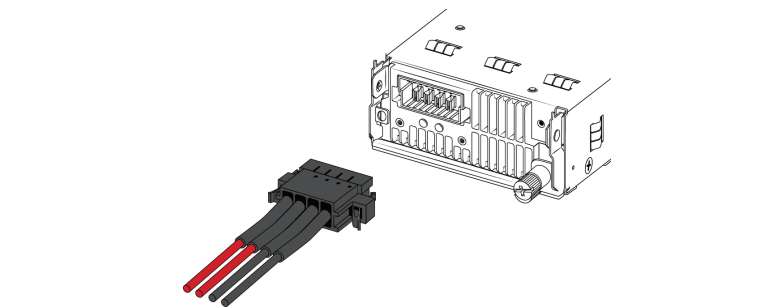
! Danger: Use AC power cords that have a ground wire (if applicable). If you use power cords without a ground wire, ensure the switch is properly grounded before powering on the unit. Without a proper ground, you are in danger of receiving an electrical shock. Lack of a grounding path to the switch can result in excessive emissions.

! Caution: Use the power calculator to determine if your AC power supply units (PSU) provide the correct power capacity for your chassis configuration. In situations when your switch is heavily populated, it is preferred that you connect to a 240-VAC power source to provide each AC PSU with up to 3,000 watts. Or, in situations when your switch is lightly populated, you can connect to a 120-VAC power source to provide each AC PSU with approximately 1,400 watts.

1. Connect a straight-ended AC power cord to the power supply.
2. (Optional) Use a retention clip to secure a straight-ended AC power cord to the power supply.
3. Connect the other end of the cord to an AC power source.
4. Verify that the LED status shows steady green.
5. Repeat these steps for each power supply.

DC power supply

1. Establish a ground connection with the two ground posts at the rear of the chassis.
2. Position the DC power cable connector so that the red wires are connected to the left (positive) side of the DC outlet, as shown in the following figure.



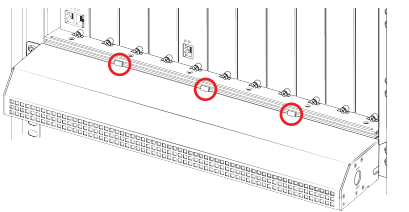
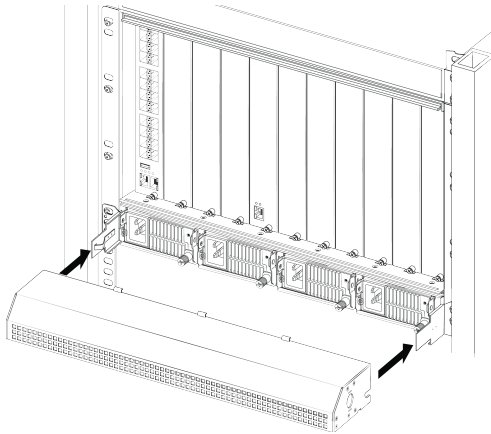
3. Push the connector until the clips lock into place.
4. The installation electrician connects the other end of the power cord to the building power system.
Use the following for the building wire harness:

Pin1	Black	-DC
Pin2	Black	-DC
Pin3	Red	+DC
Pin4	Red	+DC

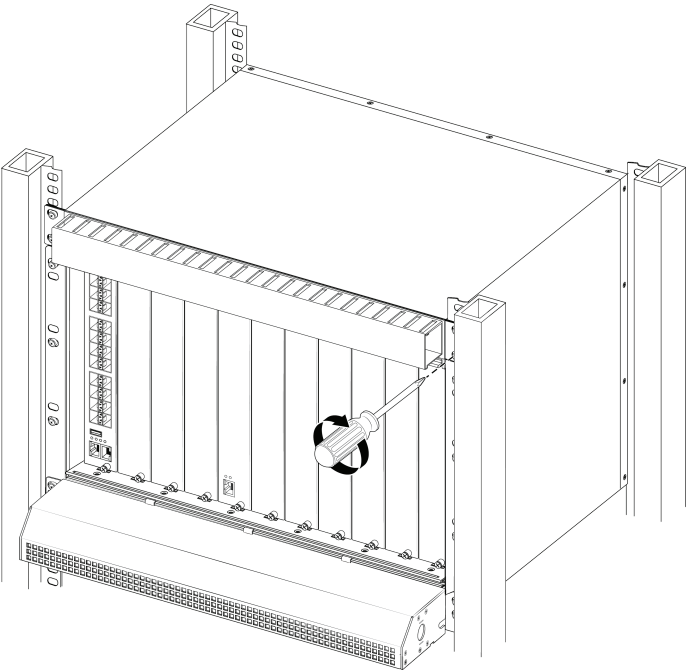
5. Verify that the LED status shows steady green.
6. Repeat these steps for each power supply.

8 (Optional) Install the power supply cover and the cable management tray

1. Attach the left bracket into the left side of the rack.
2. Insert two screws in the left bracket, and tighten until hand tight to secure the bracket on the rack.
3. Repeat Steps 1 and 2 to attach the right bracket to the right side of the rack.
4. Position the power supply cover with the spring mechanism facing outward.
5. Slide the power supply cover into the left and right brackets until the spring on the brackets locks into the cover. Ensure the three tabs at the top of the cover rest on the metal bar of the chassis, as shown in the following figure.



6. Tighten the screws on the brackets until hand tight.
7. Line up the cable management tray directly above the chassis, and secure the tray with two screws on each side.



9 Install SFP, SFP+, QSFP+, and QSFP28 transceivers and DACs

Before you install:

- a. Ensure the switch is up and running, and operating normally. You can power on the chassis before or after the modules are installed. However, you must have an IOC module in either slot 1 or slot 2 for the system to operate, and to connect transceivers. For more information, see Installing the Virtual Services Platform 8600 (NN47229-300).
- b. Verify that the transceivers and network cabling support your network configuration. For a complete list of supported transceivers, see Installing Transceivers and Optical Components on VSP Operating System Software, NN47227-301.

Commissioning the VSP 8608

1 Connect the console cable to the VSP 8608

Prerequisite: Ensure at least one IOC module is installed in slot 1 or slot 2.

Console port cabling specifications:

Ensure to use Category 5E or higher specification cabling for 1 Gbps/1000 Mbps operation. RJ-45 console port cables are as follows:

PEC Code	Name	Short Description
AL2011022-E6	RJ-45/DB-9 CONSOLE CABLE	The VSP 8608 has an RJ-45 female connector, so a serial cable with RJ-45 connectors, or a serial cable with a DB-9 female connector on one end and an RJ-45 on the other is appropriate. The maximum length for the console port cable is 25 feet (8.3 meters).
AL2011020-E6	RED DB-9 FEMALE TO RJ-45 ADAPTOR	Converts DB-9 MALE to RJ-45 serial port. The adaptor can be used for PC or device with DB-9 MALE console port. Also, can be used with Category 5 RJ-45 straight cable to provide console connection.
AL2011021-E6	BLUE DB-9 MALE TO RJ-45 ADAPTOR	Converts DB-9 FEMALE to RJ-45 serial port. This adaptor can be used to convert DB-9 of AL2011013-E6 console cable to RJ-45.

Use an RJ-45 to DB-9 cable to connect the switch console port to your management terminal. Use adaptors to provide different connection options. The maximum length of a console cable is 25 feet (8.3 meters). The following tables describe the RJ-45 and DB-9 console port pin-out information. You can use the pin-out information to verify or create a console cable for use with your maintenance terminal.

DB-9 Console port pin assignments

Connector	Pin Number	Signal
	1	Carrier detect (not used)
	2	Transmit Data (TXD)
	3	Receive Data (RXD)
	4	Data terminal ready (not used)
	5	Signal ground (GND)
	6	Not used
	7	Request to send (not used)
	8	Not used
	9	Ring indicator (not used)

RJ-45 Console port pin assignments

Connector	Pin Number	Signal
	1	Ready to send (RTS) — optional
	2	Dataterminal ready (DTR) — optional, can swap or link with pin 8
	3	Transmit data (TXD) — mandatory
	4	Carrier detect (DCD) — optional
	5	Ground (GND) — mandatory
	6	Receive data (RXD) — mandatory
	7	Data set ready (DSR) — optional
	8	Clear to send (CTS) — optional, can swap or link with pin 1.

1. Connect the console cable from the terminal to the console port (IOIOI) of the switch to allow initial configuration. Any terminal or PC with the appropriate terminal emulator can be used as the management station.
2. Set the terminal protocol on the terminal or terminal emulation program to VT100 or VT100/ANSI.
3. Connect to the switch using the terminal or terminal emulation application.

Terminal emulation settings

Property	Value
Baud Rate	115200 bps
Data Bits	8
Stop Bits	1
Parity	None
Flow Control	None

2 Configure a management interface

Use one of the following steps to configure either an in-band or an out-of-band management interface.

Step 2a: Configure an in-band management IP interface and VLAN

Note: The following procedure uses VLAN 20 and IP Address 198.51.100.17 as an example.

1. Create a VLAN:
VSP-8608:1(config)# vlan create 20 type port-mstprstp 0
2. Add VLAN members:
VSP-8608:1(config)# vlan members add 20 1/1-4

3. Activate ports:
VSP-8608:1(config)# interface gigabitEthernet1/1-1/4
VSP-8608:1(config-if)# no shutdown
4. Configure an IP interface for the VLAN:
VSP-8608 1(config)# interface vlan 20
VSP-8608:1(config)# ip address 198.51.100.17 255.255.255.0
5. Add a static route:
VSP-8608 1(config)# ip route 198.0.0.0 255.255.255.0 198.51.100.1 weight 1

Step 2b: Configure an out-of-band management IP interface and VLAN

1. Configure the management interface:
VSP-8608:1(config)# interface mgmtEthernet mgmt
VSP-8608:1(config-if)# ip address 198.51.100.17/24
2. Configure static routes:
VSP-8608:1(config)# router vrf mgmtrouter
VSP-8608:1(config-vrf)# ip route 198.0.0.0 255.255.255.0 198.51.100.1 weight 1

Documentation references

To obtain additional documentation references, go to <http://www.extremenetworks.com/support/documentation/> and download the following:

- Locating Software and Release Notes for VSP 8600 (NN4229-100)
- Regulatory Reference for VSP 8600 (NN47229-101)
- Installing Virtual Services Platform 8600 (NN47229-300)
- Installation Job Aid for VSP 8600 (NN47229-301)
- Minimum Software Requirements for VSP 8600 (NN47229-501)



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