Virtual Services Platform
4450GTX-HT-PWR+
Quick Install Guide

This document provides information and instructions to install and commission a factory-supplied Extreme Networks Virtual Services Platform 4450GTX-HT-PWR+ switch. This hardware model is temperature hardened and designed to withstand industrial-grade high temperatures. You can download all documents referenced in this guide at http://www.extremenetworks.com/support/documentation/.

1. Before you start

Conform that you have the following tools and cables:
- Phillips #2 screwdriver
- Console cable
- Electrostatic discharge (ESD) cable

2. Unpack the equipment and verify package content

Note: Observe ESD precautions when unpacking.

3. Verify power supply unit (PSU) specifications

The VSP 4450GTX-HT-PWR+ switch supports two field-replaceable AC PSUs. One PSU is supplied with the chassis. Optionally order an additional PSU for redundancy and load sharing.

VSP 4450GTX-HT-PWR+ AC power and temperature specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSU Specifications</td>
<td>Primary PSU (without power cord): 1000-watt AC PoE+ high-temperature field-replaceable power supply. (replacement order code: EC4005A03-E6)</td>
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<tr>
<td>PSU Specifications</td>
<td>Redundant PSU (without power cord): 1000-watt AC PoE+ high-temperature field-replaceable power supply. (replacement order code: EC4005A03-E6)</td>
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<tr>
<td>Note:</td>
<td>The 1000-watt AC power supply uses the IEC 60320 C16 AC power cord connector.</td>
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<tr>
<td>Note:</td>
<td>Power cords are ordered separately. For more information, see installing VSP 4450GTX-HT-PWR+.</td>
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</tbody>
</table>

4. (Optional) Install redundant PSU

Use this procedure to optionally install a redundant power supply.

Note: The switch ships with a filler panel in the second power supply position. This filler panel must stay in place if you do not intend to install a second power supply. Either power supply must always be populated with either a cover or a power supply for proper air-flow management.

1. If a blanking plate covers the required power supply slot, remove the blanking plate before attempting to insert the power supply.
2. Insert the power supply into a front power supply slot as illustrated.

5. Mount the VSP 4450GTX-HT-PWR+ switch

Caution: To protect the VSP 4450GTX-HT-PWR+ switch against ESD damage, do the following before you connect the data cables to the device:
- Use antistatic wrist straps. Ensure that the strap has good skin contact. Do not remove the wrist or ankle strap until the installation is complete.
- Ensure that you properly ground work surfaces and equipment racks.
- Avoid contact between equipment and clothing.
- Avoid touching the connector pins.

a. Table or shelf mounting

1. If you mount the switch on a table or shelf, attach the included rubber footpads as indicated. The surface must support the combined weight of the switch and attached cables (15-20 pounds [7 to 9 kilograms]).
2. Set the device on a flat surface near an AC power source. Allow at least 2 inches (5.1 cm) of space on all sides for proper air flow, and at least 5 inches (12.7 cm) at the back for power cord clearance.

b. Rack mounting

1. Attach an L-bracket to each side of the switch using the #2 Phillips screwdriver as illustrated.
2. Slide the switch into the rack as illustrated. Insert and tighten the rack-mount screws.

For more details see Installing the Virtual Services Platform 4450GTX-HT-PWR+.
6 Power up

1. Connect the AC power cord to the front of the switch, and then plug the other end of the cord into an AC power outlet.

Note: You will need two power cords if you have installed a redundant PSU.

Warning: You must use a power cord set approved for the VSP 4450GTX-HT-PWR+ Series switch and the power receptacle type in your country.

2. Check the front-panel LEDs as the device powers on to be sure the PWR LED is lit. If not, check whether the power cord is plugged in correctly. The switch will power on immediately when it is connected to a suitable AC power source.

3. Install SFP and SFP+ transceivers

Note: Before installing, ensure that the VSP 4450GTX-HT-PWR+ switch is operating normally. Verify that the SFP or SFP+ transceivers and network cabling support your network configuration.

1. Select transceivers (SFP/SFP+) that are rated for temperatures of 85°C.

2. Remove the transceiver from the protective packaging.

3. Insert the transceiver into the proper SFP/SFP+ slot on the switch as illustrated. Apply a light pressure to the transceiver until it clicks and locks into position in the slot.

1 Connect the console cable to the VSP 4450TX-HT-PWR+

Console port cabling specifications

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

- For Category 5E or higher specification cabling:
  - RJ-45 to DB-9 console cable
  - RJ-45 female to RJ-45 adapter

On your VSP 4450GTX-HT-PWR+ switch, the console port is the RJ-45 port outlined with a blue border and marked 10101, on the front of your switch (note the side orientation). 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 meters).

Product Name and Description

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Name</th>
<th>Short Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AL2011022-E6</td>
<td>RJ-45/DB-9 CONSOLE CABLE</td>
<td>The VSP 4450GTX-HT-PWR+ has an RJ-45 female connector, so a serial cable with RJ-45 connectors, or a serial cable with DB-9 female connector on one end and an RJ-45 on the other is required. The maximum length for the console port cable is 25 feet (8 meters).</td>
</tr>
<tr>
<td>AL2011020-E6</td>
<td>DB-9 FEMALE TO RJ-45 ADAPTOR</td>
<td>Converts DB-9 male to RJ-45 serial port. The adapter 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.</td>
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</table>

2 Configure an in-band VLAN and a management IP interface for the VLAN

Note: In the following procedure you create a VLAN with ID 20 and name ExtremeNetworks.

1. Create a VLAN:
   - VSP-4450GTX-HT-PWR+(config)#vlan create 20 name ExtremeNetworks
   - Use the Privileged EXEC command mode:
     - VSP-4450GTX-HT-PWR+(config)#vlan members add 20 1/4

2. Add VLAN members:
   - VSP-4450GTX-HT-PWR+(config)#vlan members add 20 1/4

3. Configure a management IP interface for the VLAN (for example, 192.0.2.85):
   - VSP-4450GTX-HT-PWR+(config)#interface vlan 20
   - VSP-4450GTX-HT-PWR+(config)#ip address 192.0.2.85 255.255.0.0

4. Connect to the switch using the terminal or terminal emulation program to VT100 or VT100/ANSI.

5. Set the terminal protocol on the terminal or terminal emulation program to VT100 or ANSI.

6. Connect the console cable from the terminal to the console port of the switch to allow initial configuration. Any terminal or PC with the appropriate terminal emulator can be used as the management station.

7. Shut down the VSP 4450GTX-HT-PWR+

Caution: Before you unplug the AC power cord, always perform the following shutdown procedure. This procedure flushes any pending data to ensure data integrity.

1. Enter the Privileged EXEC command mode:
   - VSP-4450GTX-HT-PWR+(config)#enable

2. Shut down the VSP 4450GTX-HT-PWR+:
   - VSP-4450GTX-HT-PWR+(config)#sys shutdown

When prompted, enter y to confirm the shutdown.

3. Before you unplug the power cord, wait until you see the following message:
   - System Halted, OK to turn off power.

For more information on this and other administration procedures, see Administering VSP Operating System Software.

Recommended reading

For more information, go to: http://www.extremenetworks.com/support/documentation/ and download the following VSP 4000 guides:

- Regulatory Information
- Locating the latest Software and product Release Notes
- Documentation Reference
- Installation
- Quick Start Configuration
- Release Notes
- Administration

Network configuration

Connect Beyond the Network

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