



Hewlett Packard Enterprise

HPE B-series 16Gb FC Switches Quick Start Instructions

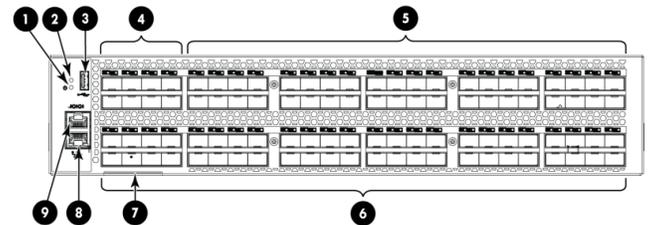
Overview

Read these instructions to set up and configure the HPE StoreFabric SN6500B 16Gb 96-port FC Switch, HPE SN6000B 16Gb 48-port FC Switch and HPE SN3000B 16Gb 24-port FC Switch.

These instructions provide basic configuration steps. For detailed rack mount and configuration instructions, download the HPE B-series 16Gb Switches Hardware reference guide from the **storage** section of the Hewlett Packard Enterprise website: <http://www.hpe.com/support/manuals>.

Figure 1 (page 1) shows the port side of the 96-port switch.

Figure 1 Port side of the 96-port switch



- | | |
|---------------------------|--------------------------------------|
| 1. System power LED | 2. System status LED |
| 3. USB port | 4. FC ports 0–7 (all LEDs above) |
| 5. FC ports 8–47 | 6. FC ports 48–95 |
| 7. Switch ID pull-out tab | 8. Management Ethernet port with LED |
| 9. Serial console port | |

Verify the SN6500B 16Gb 96–port FC switch carton contents

Verify that the carton contains the following (any SFPs ordered will not be in this carton; they will be packaged separately):

- One HPE SN6500B 16Gb 96–port FC Switch with two power supplies and three fan assemblies
- Rubber feet, required to set up the switch as a standalone unit.
- Serial cable with an RJ-45 connector.
- HPE SAN Network Advisor DVD.
- Brocade EZ Switch and China ROHS documentation.

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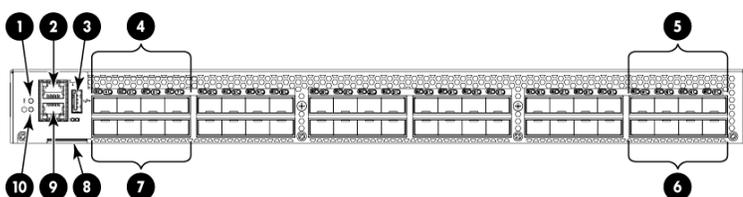


- One accessory kit with the following items:
 - Rack Mount Kit, including rails and rail mounting hardware.
 - Hewlett Packard Enterprise product documentation, including Read Me First, Safety Guides, End User License Agreement and Warranty.
- Two power cords.

SN6000B 16Gb 48-port FC switch

Figure 2 (page 2) shows the port side of the 48-port switch.

Figure 2 Port side of the 48-port FC Switch



- | | |
|------------------------|---------------------------------------|
| 1. System status LED | 2. Management Ethernet port with LEDs |
| 3. USB port | 4. FC ports (0-3) |
| 5. FC ports (40-43) | 6. FC ports (44-47) |
| 7. FC ports (4-7) | 8. Switch ID pull-out tab |
| 9. Serial console port | 10. System power LED |

Verify the 16Gb 48-port FC switch carton contents

Verify that the carton contains the following (any SFPs ordered will not be in this carton; they will be packaged separately):

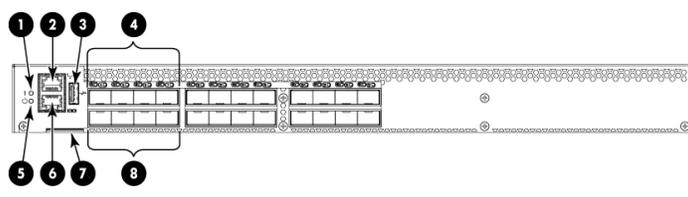
- One SN6000B 16Gb 48-port FC Switch with two integrated power supply/fan assemblies
- Rubber feet, required to set up the switch as a standalone unit
- Serial cable with an RJ-45 connector plus an adaptor for RJ-45 to DB9
- SAN Network Advisor DVD
- Brocade EZ Switch and China ROHS documentation

- One accessory kit with the following items:
 - Rack Mount Kit, including rails, rail mounting hardware, and plenum
 - Hewlett Packard Enterprise product documentation, including Read Me First, Safety Guides, End User License Agreement and Warranty
- Two power cords

SN3000B 16Gb 24-port FC switch

Figure 3 (page 2) shows the port side of the 24-port switch.

Figure 3 Port side of the 24-port switch



- | | |
|---------------------------|---------------------------------------|
| 1. System status LED | 2. Management Ethernet port with LEDs |
| 3. USB port | 4. FC ports (0-3) |
| 5. System power LED | 6. Serial console port |
| 7. Switch ID pull-out tab | 8. FC ports (4-7) |

Verify the SN3000B 16Gb 24-port FC switch carton contents

Verify that the carton contains the following (any SFPs ordered will not be in this carton; they will be packaged separately):

- One SN3000B 16Gb 24-port FC Switch with one integrated power supply/fan assembly
- Rubber feet, required to set up the switch as a standalone unit
- Serial cable with an RJ-45 connector plus an adaptor for RJ-45 to DB9
- SAN Network Advisor DVD
- Brocade EZ Switch and China ROHS documentation
- One accessory kit with the following items:
 - Rack Mount Kit, including rails, rail mounting hardware, and plenum
 - Hewlett Packard Enterprise product documentation, including Read Me First,

- One power cord

NOTE: The HPE SN3000B 16Gb Fibre Channel Switch can, as an option, be configured with a second power supply/fan assembly, which must be ordered separately.

Verify the 16Gb FC Switch installation requirements

To set up the switch for the first time, you will need the following:

- Workstation with an installed terminal emulator (such as HyperTerminal)
- Unused IP address and corresponding subnet mask and gateway address
- Serial cable (supplied with the switch)
- Ethernet cable
- Access to an FTP server, SCP server, or USB device for backing up the switch configuration (optional)
- HPE B-series SFP+ transceivers and compatible cables (HPE B-series 16 Gb/s SFP+ transceivers required for 16 Gb/s performance), as required

-
- ⓘ **IMPORTANT:** Order transceivers or cables separately. The StoreFabric SN6500B 16Gb 96-port FC Switch, SN6000B, and SN3000B 16Gb FC Switches support only transceivers labeled B-series SFP+. See the compatibility matrix at <http://www.hpe.com/support/SANcompatibility> for more information on supported transceivers.
-

Plan the 16Gb FC Switch site environment

To ensure adequate cooling, install the switch with the non-port side (which contains the air intake vents) facing the cool-air aisle. Verify that the ambient air temperature does not exceed 40°C (104°F) and that the ambient humidity remains between 10% and 85% while the switch is operating.

NOTE:

- For switches with Port Side Air Intake, install the switch with the port side facing the cool-air aisle.
 - For the SN6000B and SN3000B, you must install the plenum if the switch is to be installed in a rack.
-

To install and operate the switch successfully, ensure that:

- For the SN6500B 16Gb FC Switch, the primary AC input is 90–264 VAC, Nominal: 100–240 VAC, 12.0A–5.0A; 47–63 Hz. The switch auto-senses input voltage.
- For the SN6000B and SN3000B 16Gb switches, the primary AC input is 85–264 VAC, Nominal: 100–240 VAC, 2.0 A; 47–63 Hz. The switch auto-senses input voltage.
- The primary outlet is wired correctly, protected by a circuit breaker, and grounded in accordance with local electrical codes.
- The supply circuit, line fusing, and wire size are adequate, as specified by the electrical rating on the switch nameplate.

For additional power supply information, see the B-series 16Gb Switches Hardware Reference Guide.

Install the SN6000B Switch and SN3000B Switch in a rack using the Rack Mount Kit

You can use the Switch Rack Mount Kits to install your 16Gb FC Switch in an HPE 10000 Series Rack.

△ CAUTION: Install the Rack Mount Kit so that when the switch is installed, the port side faces the rear of the rack. This configuration optimizes performance by:

- Providing better airflow by using a plenum to force cool air to enter the switch from the front of the rack
- Providing room for a gradual bend in the fiber optic cables because the port side of the switch is set back from the edge of the rack

Use only the screws provided in the Rack Mount Kit. Using other screws can cause damage to internal components.

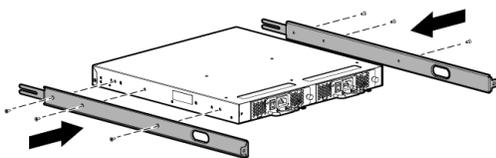
NOTE: For switches with Port Side Air Intake, install the Rack Mount Kit so that when the switch is installed the port side faces the front of the rack.

To install the switch in a rack using the Rack Mount Kit:

1. Place the switch on a flat surface and attach each inner rail to the switch using three flat-head screws as shown in Figure 4 (page 4).

The rails are labeled Left and Right to designate the left side and right side of the switch as viewed from its non-port side.

Figure 4 Attaching the inner rails to the switch



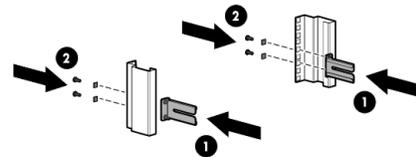
2. Choose a rack mounting location that provides clearance for the switch power cords to run

between the rack sides and the rails at the front of the rack.

3. Attach each rear mounting bracket to a rear rack upright column using two Phillips screws and adapter washers. See Figure 5 (page 4).

NOTE: For switches with Port Side Air Intake, attach the rear mounting brackets to the front rack upright column.

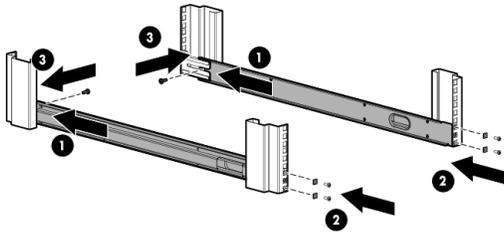
Figure 5 Installing the rear mounting brackets



- Attach each outer rail as shown in Figure 6 (page 5).
The rails are labeled Left and Right to designate the left side and right side of the rack as viewed from the front of the cabinet.

NOTE: For switches with Port Side Air Intake, attach Left outer rail to the right side of the rack and Right outer rail to the left side of the rack.

Figure 6 Attaching the outer rails



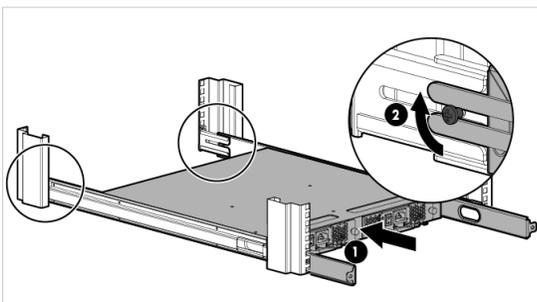
- Slide the rail over the rear mounting bracket.
- Attach the front of the rail to a front rack upright column using two Phillips screws and adapter washers.
- Attach the outer rail to the rear mounting brackets using a Phillips screw.



TIP: Tighten the rear screws just enough for the end of the screw to go through the rear bracket. Later in the procedure, you will need room to slide the inner rail between the screw head and the outer bracket.

- From the front of the rack, slide the switch (with inner rails attached) onto the outer rails, taking care to align the inner rails with the attachment screws on the outer rails at the rear of the rack. See Figure 7 (page 5).

Figure 7 Installing the switch in the rack



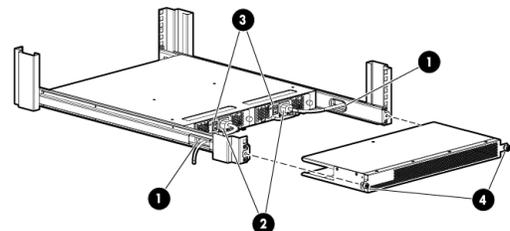
- When the switch is in place, secure the inner rails to the outer rails by tightening the screws at the rear of the rack.
- At the front of the rack, run the switch power cords from the sides of the rack through the cutouts in the rail, and then connect them to the switch power supplies. Connect two power cords to the 48-port switch and the 96-port switch. Connect one power cord to the 24-port switch. See Figure 8 (page 5).

ⓘ **IMPORTANT:** Make sure that the power cords do not come in contact with any sharp edges.

NOTE:

- For switches with Port Side Air Intake, the power connections are at the rear of the rack.
 - If you are configuring the second (optional) power supply, the 24-port switch will also have two power cords.
-

Figure 8 Connecting power and installing the plenum



- Cutouts for power cords
- Power cable plugs
- Power switches
- Plenum thumb screws

- Connect the other end of the power cords to power sources on separate circuits to protect against AC failure. (Make sure that two power cords are connected to the 48-port switch and one power cord is connected to the 24-port switch.)

NOTE: If you are configuring the second (optional) power supply, the 24-port switch will also have two power cords.

- Power on the power supplies by setting the power switches to the ON position (I).
The power supply LEDs are amber until the Power On Self Test (POST) is complete, and then change to green. The SN6000B 16Gb FC Switch takes several minutes to boot and complete POST.

NOTE: When installed, the plenum covers the power supply switches and LEDs. However, the LEDs are visible through the air holes in the front of the plenum.

- Slide the plenum over the non-port side of the inner rails, taking care to bypass the power cables. See Figure 8 (page 5).
- Tighten the thumbscrews to secure the plenum to the front of the rack.
- Proceed to “Switch setup ” (page 10).

Installing the SN6500B Switch in a rack using the Rack Mount Kit

Use the SAN Switch Rack Mount Kit to install your Hewlett Packard Enterprise device in the following Hewlett Packard Enterprise custom racks:

- HPE System/e Rack
- 10000 Series Rack

For optimal cable management, Hewlett Packard Enterprise recommends that you install the SAN Switch Rack Mount Kit to allow the nonport side of the device to slide out of the cool-air side of the rack. In this installation, the port side of the device is set back from the edge of the rack, allowing a more gradual bend in the fiber optic cables.

The following items are required to install the device in a rack:

- Power cables
- #2 Phillips screwdriver
- 7/16-inch wrench or socket
- SAN Switch Rack Mount Kit hardware

Table 1 (page 6) identifies the rails and rail-mounting hardware.

Table 1 SAN Switch Rack Mount Kit hardware

Item	Description
	Two rear mounting brackets
	A right inner rail and a right outer rail
	A left inner rail and a left outer rail
	14 #8-32 x 5/16-inch Phillips panhead SEMS screws for use with the SN6500B Switch. This device requires 10 screws
	14 #8-32 x 3/16-inch Phillips panhead screws with thread lock (do not use)
	Ten #10-32 x 1/2-inch Phillips panhead screws with captive star lock washers
	Eight #10 alignment washers
	Eight #10 adapter washers
	Two 1/4-20 hex nuts with captive star lock washers
	Two 1/4-inch flat washers

CAUTION: For proper air flow, the SFP+ media side of the device port side must face the rear of the rack. This allows cool air to enter the front of the rack and exit from the rear.

For switches with Port Side Air Intake, the SFP+ media side of the device port side must face the front of the rack.

To install the device in a rack:

- Verify that the required parts and hardware are available (see Table 1 (page 6)).
- Choose a mounting location for the device in the rack.

3. Attach the rear mounting brackets to the rear rack uprights.

NOTE: For switches with Port Side Air Intake, attach the rear mounting brackets to the front rack uprights.

- For 10000 series rack, assemble each of the brackets using two #10-32 x 1/2-inch Phillips panhead screws with captive star lock washers and two #10 adapter washers, as shown in Figure 9 (page 7).
- For System/e Rack, install the two rear mounting brackets using 8-32 x 5/16-inch Phillips panhead SEMS screws and two #10 alignment washers, as shown in Figure 10 (page 7).

Figure 9 Installing the rear mounting brackets (HPE 10000 Series Rack)

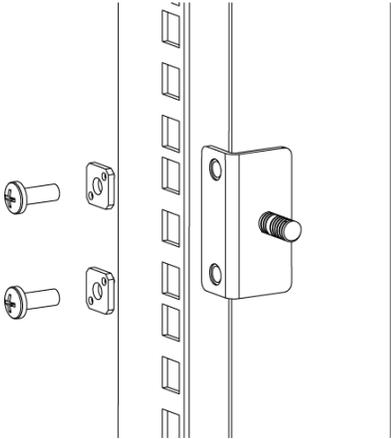
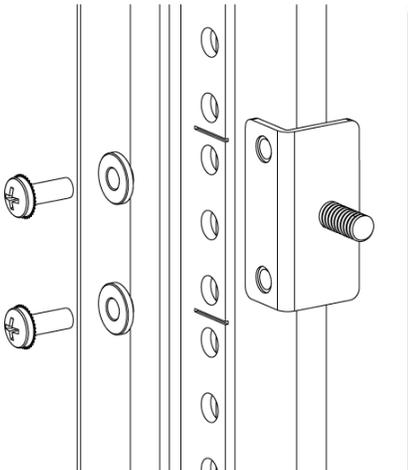


Figure 10 Installing the rear mounting brackets (HPE System/e Rack)



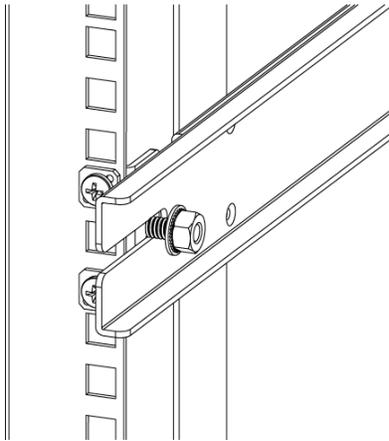
NOTE: The SAN Switch Rack Mount Kit contains rails labeled Left and Right to designate the left side and right side of the device or cabinet as viewed from the front of the cabinet.

4. Assemble the outer rails as follows:

NOTE: For switches with Port Side Air Intake, attach Left outer rail to the right side of the rack and Right outer rail to the left side of the rack.

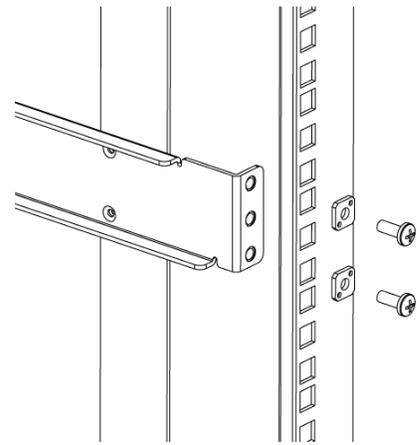
- a. Attach the left outer rail and right outer rail to the rear mounting brackets using two 1/4-20 hex with captive star lock washers attached loosely as shown in Figure 11 (page 8). Do not tighten the nuts.

Figure 11 Installing the outer rails (HPE 10000 Series Rack)



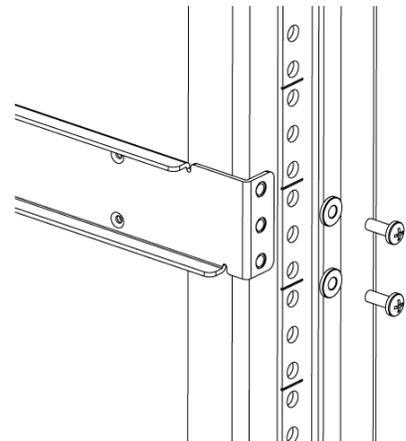
- b. Depending on the rack you are using, complete one of the following tasks:
- For 10000 Series Rack, install two #10-32 x 1/2-inch Phillips panhead screws with captive star lock washers and two #10 adapter washers in the upper and lower holes on the right rail. Then install two #10-32 x 1/2-inch Phillips panhead screws with captive star lock washers and two #10 adapter washers in the upper and lower holes on the left rail (see Figure 12 (page 8)).

Figure 12 Assembling the outer rails (HPE 10000 Series Rack)



- For System/e Rack, install two #10-32 x 1/2-inch Phillips panhead screws with captive star lock washers and two #10 alignment washers in the upper and lower holes on the right rail. Then install two #10-32 x 1/2-inch panhead screws with captive star lock washers and two #10 alignment washers in the upper and lower holes on the left rail (see Figure 13 (page 8)).

Figure 13 Assembling the outer rails (HPE System/e Rack)

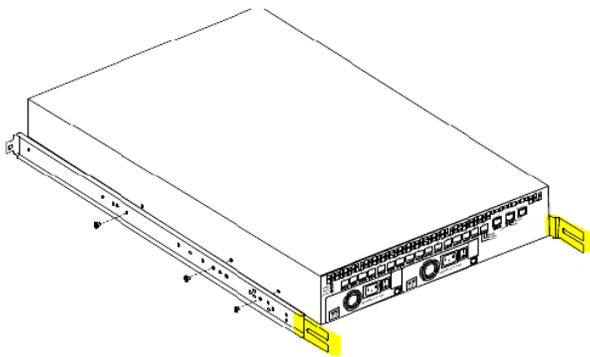


5. Use the screw type #8-32 x 5/16-inch (in the screw holes marked 16) to attach the two inner rails to the switch. Five screws are required for each rail.

Figure 14 (page 9) shows how the inner rails are attached to the switch with the open ends (highlighted in yellow) on the port side.

NOTE: The switch in the figure is not a SN6500B, but it shows the direction of the open ends of the rails when they are attached to the switch.

Figure 14 Inner rails attachment



ward

Securing the device to the outer rails

1. Insert the device with the attached inner rails to the outer rails.
2. Insert the device into the rack and install one #10-32 x 1/2-inch Phillips panhead screw with captive star lock washer. Repeat for the other side. See Figure 15 (page 9) and Figure 16 (page 9).

Figure 15 Securing the device (HPE 10000 Series Rack)

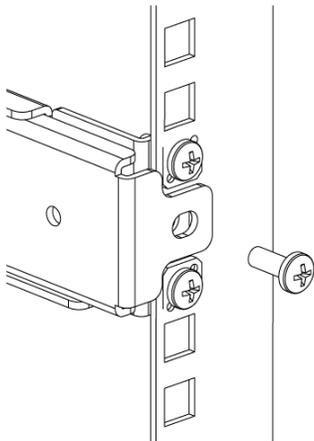
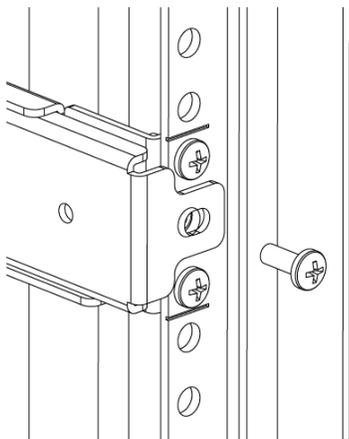


Figure 16 Securing the device (HPE System/e Rack)



3. Tighten the hex nuts installed in Step 4. This completes the rack mount procedure.

Install a standalone switch

1. Unpack the switch and verify the contents as described in “Verify the SN6500B 16Gb 96–port FC switch carton contents” (page 1).
2. Apply the adhesive rubber feet to prevent the switch from sliding off the supporting surface.
 - a. Clean the indentations at each corner on the bottom of the switch to ensure that they are free of dust or other debris.
 - b. With the adhesive side against the chassis, place one rubber foot in each indentation and press into place.
3. Place the switch on a flat, sturdy surface.

Power on the switch

1. Connect a power cord to each power supply present:
 - For the 96-port switch and the 48-port switch, connect the power cords to both power supplies and then to power sources on separate circuits to protect against AC failure.
 - For the 24-port switch, connect a power cord to either the single power supply present or to both power supplies, if an optional second power supply is present. Then connect the power cords to power sources on separate circuits to protect against AC failure.

Ensure that the cords have a minimum service loop of 6 inches available and are routed to avoid stress.

NOTE: If you are configuring the second (optional) power supply, the 24-port switch will also have two power cords.

2. Power on the power supplies by setting the AC switches to the on position (I).

The power supply LEDs are amber until POST is complete, and then change to green. The switch takes several minutes to boot and complete POST.

NOTE: Power is supplied to the switch as soon as the first power supply is connected and turned on.

3. After POST is complete, verify that the switch power and status LEDs on the port side of the switch are green.

Switch setup

To set up the switch, you will need the following:

- Standard screwdriver
- If you are using static IP addressing, you will need the following items (not required if you are using Dynamic Host Configuration Protocol (DHCP)):
 - Fixed IP address (IPv4 or IPv6) for the switch
 - Subnet mask value
 - Default gateway value
- World Wide Name (WWN), located on the switch ID pull-out tab
- Ethernet connection (hub or switch)
- Ethernet and Fibre Channel cables
- Disk array with Fibre Channel ports
- Browser that allows pop-up windows

Connect the serial cable

1. Connect the serial cable to the serial port on the switch and to an RS-232 serial port on the workstation.
If the serial port is RJ-45 instead of RS-232, remove the adapter on the end of the serial cable and insert the exposed RJ-45 connector into the RJ-45 serial port on the workstation.
2. Disable any serial communication programs running on the workstation.

3. Open a terminal emulator (such as HyperTerminal on a PC, or TERM, TIP, or Kermit in a UNIX environment) and configure the application as follows:

For most Windows systems:

Bits per second: 9,600

Data bits: 8

Parity: None

Stop bits: 1

Flow control: None

For most UNIX systems:

```
tip /dev/ttyb -9600
```

If `ttyb` is already in use, try `ttya` instead:

```
tip /dev/ttysa -9600
```

Log in to the serial console port

1. Verify that the switch has completed POST. When POST is complete, the port status, switch power, and status LEDs return to a normal state.
2. When the terminal emulator stops reporting information, press **Enter** to display the login prompt.
3. Log in to the switch as `admin`, using the default password, `password`.
You are prompted to change the default password at initial login.

NOTE: You can configure the switch using a static IP address or DHCP. With DHCP (enabled by default), the switch obtains its IP address, subnet mask, and default gateway address from the DHCP server. The DHCP client can connect only to a DHCP server that is on the same subnet as the switch. The Ethernet cable must be connected to the management Ethernet port on the switch if you are using DHCP. If you are using a static IP address, see “Set a static IP address” (page 11).

Set a static IP address

1. Use the `ipaddrset` command to set the Ethernet IP address.
 - For an IPv4 address, use dotted-decimal notation:
Ethernet IP Address:
192.168.74.102
 - For an IPv6 address, use colon-separated notation:
switch:admin> ipaddrset -ipv6
--add 1080::8:800:200C:417A/64The following message confirms the change:
IP address is being changed...Done.
2. Provide the remaining network information:
Ethernet IP Address: 192.168.74.102 Ethernet Subnet mask: 255.255.252.0 Gateway IP Address: 15.226.172.1
3. As an option, verify the IP address by entering the `ipaddrshow` command at the prompt.
4. Record the IP address on the pull-out tab on the port side of the switch.
5. When prompted, enter `off` to disable DHCP:
DHCP [OFF]: off
6. If the serial port is no longer required, use the `logout` command to log out of the serial console. Remove the serial cable and replace the plug in the serial port.
7. Connect the Ethernet port on the switch to the Ethernet network that assigned the IP address.

Set the date and time

The date and time settings are used for logging, error detection, and troubleshooting.

1. Using a Telnet or Secure Shell (SSH) session, connect to the switch using the IP address that you configured, and then log in to the switch as `admin` using the password you set when you logged in to the serial console port.
2. Enter the `date` command using the following syntax:
`date "mmd dHHMMyy"`, where:
`mm` is the month; valid values are 01 through 12.
`dd` is the date; valid values are 01 through 31.
`HH` is the hour; valid values are 00 through 23.
`MM` is minutes; valid values are 00 through 59.
`yy` is the year; valid values are 00 through 99.

NOTE: Values greater than 69 are interpreted as 1970 through 1999; values less than 70 are interpreted as 2000 through 2069.

3. Enter the `tstimezone` command:
switch:admin> tstimezone
[--interactive]/ [, timezone_fmt]
Use `timezone_fmt` to set the time zone by country/city or by time-zone ID, such as PST. The following example shows how to change the time zone to US/Central:
switch:admin> tstimezoneTime Zone : US/Pacificswitch:admin>
tstimezone US/Centralswitch:admin>
tstimezoneTime Zone : US/Central
4. Enter the `tsclockserver` command to synchronize local time using NTP:
switch:admin> tsclockserver
"<ntp1;ntp2>"
The value of `ntp1` is the IP address or DNS name of the first NTP server, which the switch must be able to access. The value of `ntp2` is the second NTP server and is optional. When multiple NTP server addresses are specified, `tsclockserver` sets the first obtainable address as the active NTP server. The default value is `LOCL`.
switch:admin> tsclockserver
LOCL
switch:admin> tsclockserver "132.163.135.131"

switch:admin> tsclockserver
132.163.135.131
switch:admin>

Configure the zones, and perform device selection

See the Brocade Network Advisor User Manual, available from the **storage** section of the Hewlett Packard Enterprise website: <http://www.hpe.com/support/manuals>.

Connect devices

The **Connect Devices** window shows a graphical representation of the switch with the device connections, based on the information that you entered in "Configure the zones, and perform device selection" (page 11).

NOTE: Only B-series optical transceivers are supported. See <http://www.hpe.com/support/SANcompatibility> for more information.

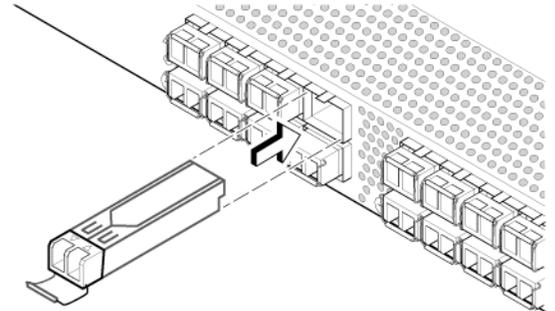
To connect devices:

Transceivers and cables are keyed so that they can be inserted only one way. If a transceiver or cable does not slide in easily, make sure it is oriented correctly.

Do not insert a cable intended for an mSFP transceiver into a regular SFP+ transceiver; you may damage the cable. The mSFP transceivers and cables are supported only with the 64-port 8Gb/s blade for the SN8000B SAN directors. Do not force a standard SFP cable into an mSFP transceiver; you may damage the transceiver.

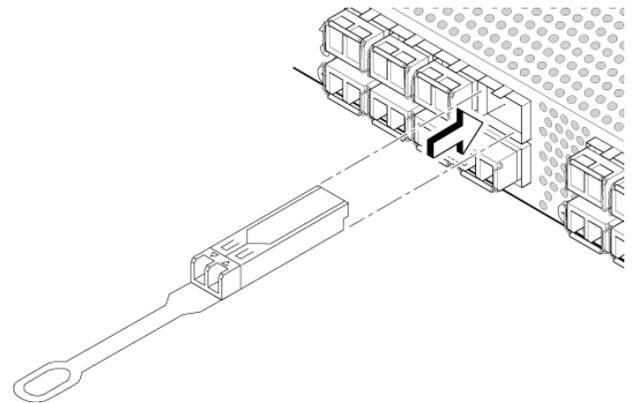
1. Install the SFP+ transceivers in the Fibre Channel ports on the switch to match the ports shown on the screen (see Figure 17 (page 12)). If you are using an SFP+ transceiver that does not have a pull tab, ensure that the wire bail is in the unlocked position.

Figure 17 Inserting an SFP+ transceiver with no pull tab in a Fibre Channel port



26440a

Figure 18 Inserting a 16 Gb/s SFP+ transceiver in a Fibre Channel port



- a. Remove any protector plugs from the SFP+ transceiver. Insert each SFP+ transceiver (right side up in the top row of ports, and upside down in the bottom row of ports) until it is firmly seated and the latching mechanism clicks.

The 16 Gb/s SFP+ transceivers do not have bails. Use the pull tab on the 16 Gb/s SFP+ transceiver to push the transceiver into the port.

- b. Close the latching bail on the non-16 Gb/s SFP+ transceiver.

2. Connect the Fibre Channel cables from the switch to your host and storage devices. Ensure that the physical connections match the connections on the **Device Connection** screen.
 - a. Remove the plastic protector caps from the Fibre Channel cable ends (if there are any), and position the cable connector so that it is oriented correctly.
 - b. Position a cable so that the key (the ridge on one side of the cable connector) is aligned with the slot in the transceiver (see Figure 18 (page 12)).
 - c. Insert the cable into the transceiver until the latching mechanism clicks.
 - d. The **Device Connection** screen shows missing, valid, and invalid connections as you cable the switch. It can take up to 15 seconds for the screen to display the connection as valid. Verify that the connections display green and then click **Next**.

Verify switch operation

1. Check the LEDs to verify that all components are functional. For information about LED patterns, see the B-series 16Gb Switches Hardware Reference Guide.
2. Verify the correct operation of the switch by issuing the `switchShow` command.

This command provides information about switch and port status.
3. Verify the correct operation of the fabric by issuing the `fabricShow` command.

This command provides general information about the fabric.
4. Back up the switch configuration to an FTP server by issuing the `configUpload` command and following the prompts.

This command uploads the switch configuration to the server, making it available for downloading to a replacement switch if necessary.

Set switch features

This completes the initial setup of your SN6500B, SN6000B, or SN3000B 16Gb FC Switch. See the Fabric OS 7.0.x Administrator's Guide and the Fabric OS 7.0.x Command Reference Manual for detailed instructions on setting all supported switch features.

Documentation feedback

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