

Cable the Data Hosts

Cable the system according to your network topology.
NOTE: If you are using AIX®, you must install the E-Series multipath driver on the host before connecting it to the array.

AOption

Direct-attach topology

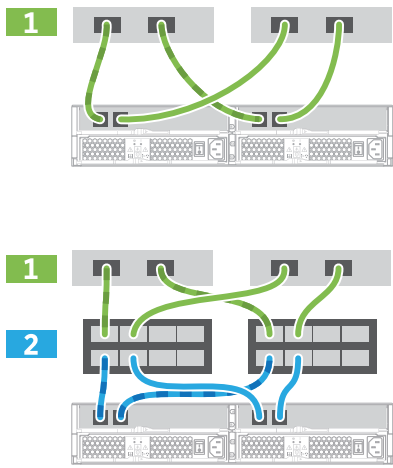
1Connect each host adapter directly to the host ports on the controllers.

BOption

Fabric topology

1Connect each host adapter directly to the switch.

2Connect each switch directly to the host ports on the controllers.



AOption

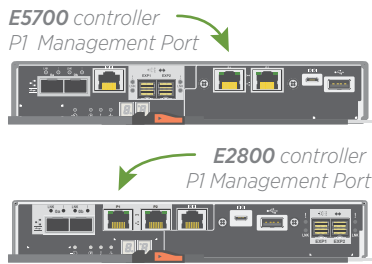
Management port configuration with DHCP

- Before you begin,** your DHCP server is configured to associate an IP address, subnet mask, and gateway address as a permanent lease for each controller.
- You have obtained the assigned IP addresses you will use to connect to the storage system from your network administrator.
- 1 Connect an Ethernet cable to each controller's management port, and connect the other end to your network. (See the graphic identifying the management port.)
 - 2 Open a browser and connect to the storage system using one of the IP addresses provided to you by your network administrator.

BOption

Management port configuration with static IP addresses

- Before you begin,** you have obtained the controllers' IP addresses, subnet mask, gateway address, DNS, and NTP server information from your network administrator.
- A connection with the controller requires the laptop to boot with no configured network settings. Verify that the laptop is not receiving network configuration from a DHCP server over a wireless connection.
- 1 Using an Ethernet cable, connect controller A's management port to the Ethernet port on a laptop.
 - 2 Open a browser and use the default IP address (169.254.128.101) to establish a connection to the controller. The controller sends back a self-signed certificate. The browser informs you that the connection is not secure.
 - 3 Follow the browser's instructions to proceed and launch SANtricity System Manager.
If you are unable to establish a connection, verify that you are not receiving network configuration from a DHCP server.
 - 4 Set the storage system's password to login.
 - 5 Use the network settings provided by your network administrator in the Configure Network Settings wizard to configure controller A's network settings, and then select Finish.
Because you reset the IP address, System Manager loses connection to the controller. This is expected.
 - 6 Disconnect your laptop from the storage system, and connect the management port on controller A to your network.
 - 7 Open a browser on a computer connected to your network, and enter controller A's newly configured IP address.
Attention: If you lose the connection to controller A, you can connect an ethernet cable to controller B to reestablish connection to controller A through controller B (169.254.128.102).
 - 8 Log in using the password you set previously. The Configure Network Settings wizard will appear.
 - 9 Use the network settings provided by your network administrator in the Configure Network Settings wizard to configure controller B's network settings, and then select Finish.
 - 10 Connect controller B to your network.
 - 11 Validate controller B's network settings by entering controller B's newly configured IP address in a browser.
Attention: If you lose the connection to controller B, you can use your previously validated connection to controller A to reestablish connection to controller B through controller A.



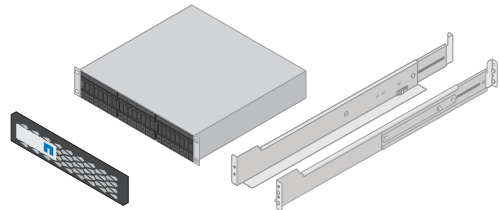
E-Series E5724, EF570, EF280, E2812, E2824, DE212C, and DE224C shelves
Installation and Setup Instructions

Prepare for Installation | 1

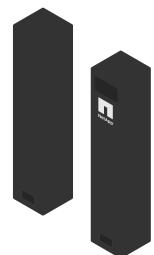
- Create an account and register your hardware at mysupport.netapp.com.
- Inventory cables and make note of the quantity.
- Confirm that your location provides 240V AC power.



In the box



Shelf with drives installed, bezel, and rackmount hardware



Shelf endcaps



Ethernet cables if ordered



SAS cables included only with the drive shelves



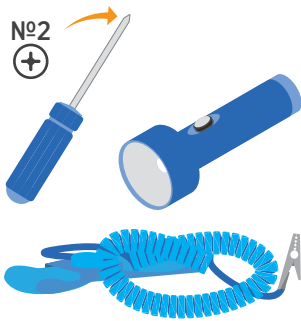
I/O cables if ordered



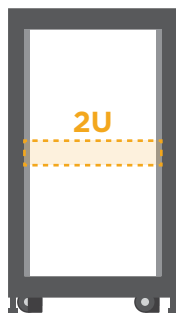
Power cables two for each shelf



You provide



Phillips #2 screwdriver, flashlight, and ESD strap



2U rack space

A standard 19 in. (48.30 cm) rack to fit 2U shelves of the following dimensions:

Shelf: 12-drive
Height: 3.41 in. (8.68 cm)
Width: 17.6 in. (44.7 cm)
Depth: 21.1 in. (53.6 cm)
Max Weight: 63.9 lb (29.0 kg)

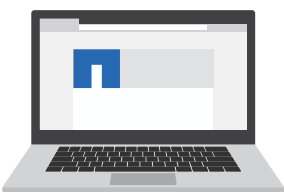
Shelf: 24-drive
Height: 3.34 in. (8.48 cm)
Width: 17.6 in. (44.7 cm)
Depth: 19.0 in. (48.3 cm)
Max Weight: 60.5 lb (27.4 kg)



A supported browser for the management software

After Installing the Hardware

- 1 Use the SANtricity software to configure and manage your storage arrays.
- 2 In the simplest network configuration, connect your controller to a web browser and use SANtricity System Manager for managing a single E2800 or E5700 series storage array.



Resources



Cabling Guide
docs.netapp.com/ess-11/topic/com.netapp.doc.e-hw-cabling/home.html



NetApp Interoperability Matrix
mysupport.netapp.com/matrix



E-Series Documentation Center
<http://docs.netapp.com/ess-11/index.jsp>



Hardware Universe
hww.netapp.com



Quick Connect Utility
mysupport.netapp.com/quickconnect

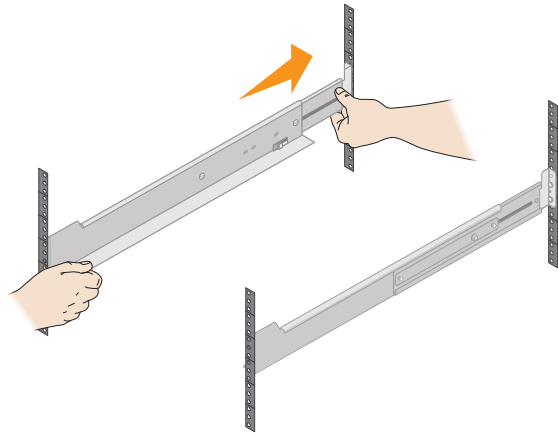
1 Unpack the Hardware

Unpack the contents and inventory the contained hardware against the packing slip. Read through all the instructions before proceeding.

2 Install the Rails

If included with your rack-mounting hardware, refer to the enclosed instructions for detailed information on how to install the rails. Rail instructions are also available through the E-Series Documentation Center at docs.netapp.com/ess-11/index.jsp under Hardware installation and upgrade >> Installing rack-mounting hardware.

NOTE: Install hardware from the bottom of the rack or cabinet up to the top to prevent the equipment from toppling over.

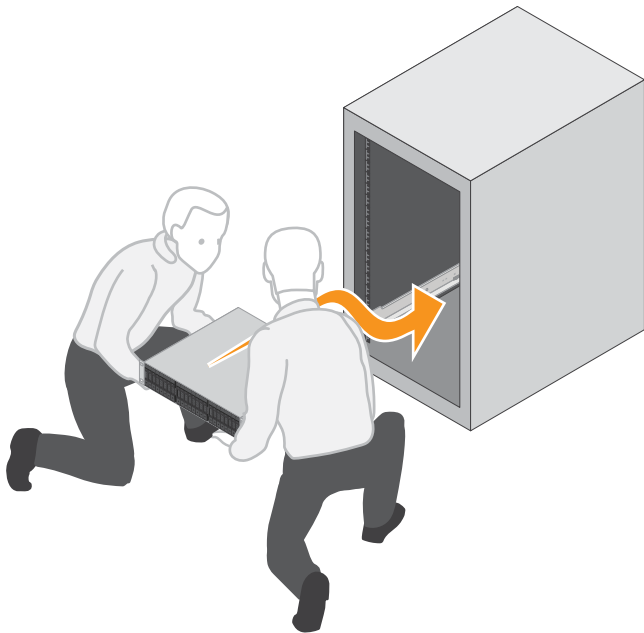


3 Install the Shelf

CAUTION: When fully loaded with drives, each shelf weighs approximately 64 lb (29 kg). Two persons or mechanical lift are required to safely move the shelf.

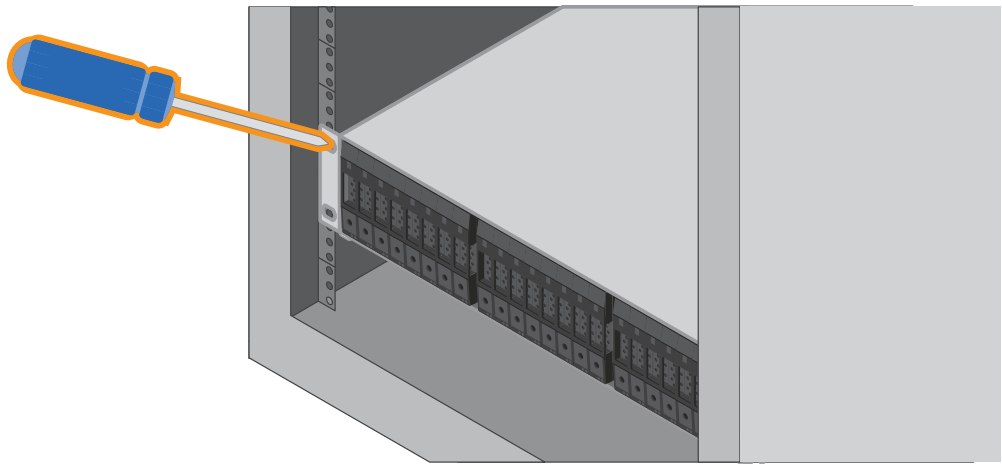
2
Person
Team Lift

- 1 Starting with the shelf you want at the bottom of the cabinet, place the back of the shelf (the end with the connectors) on the rails.
- 2 Supporting the shelf from the bottom, slide it into the cabinet.



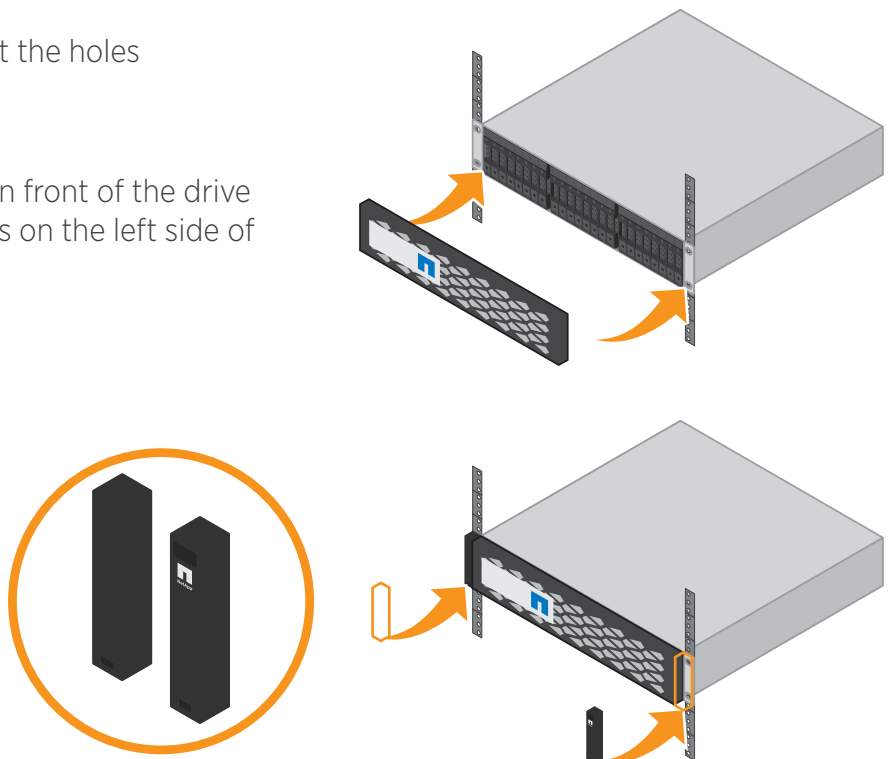
4 Secure the Shelf

Secure the shelf to the rack as directed in the instructions for the rack-mounting hardware.



5 Install the Bezel or End Caps

- 1 Position the front bezel in front of the controller shelf so that the holes at each end align with the fasteners on the controller shelf.
- 2 Snap the bezel into place.
- 3 If you have optional drive shelves, position the left end cap in front of the drive shelf so that the holes in the end cap align with the fasteners on the left side of the shelf.
- 4 Snap the end cap into place.
- 5 Repeat the above steps for the right end cap.



Cable the Shelves

Cable the system according to your configuration. Examples are shown in this section. For more cabling options, see *Cabling E-Series Hardware*.

docs.netapp.com/ess-11/index.jsp

Cable a controller shelf and three drive shelves

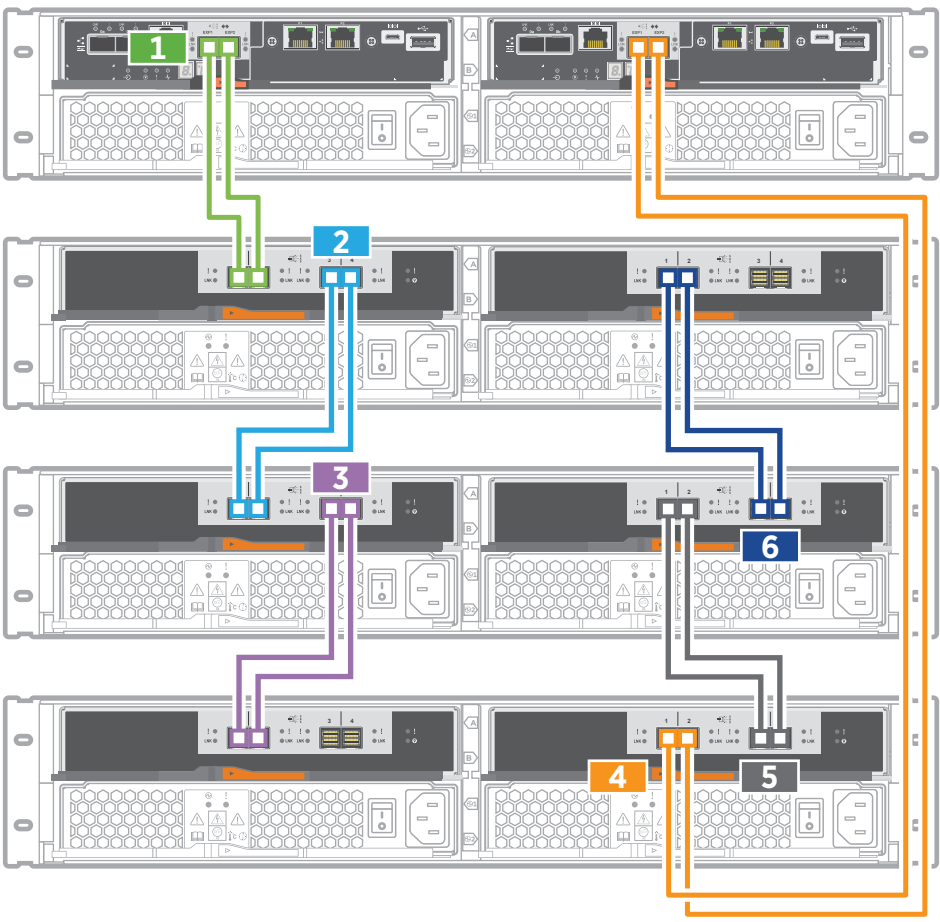
A
Example



• Storage cables

- 1 Cable controller A to IOM A of the first drive shelf.
- 2 Cable IOM A of the first drive shelf to IOM A of the second drive shelf.
- 3 Cable IOM A of the second drive shelf to IOM A of the third drive shelf.
- 4 Cable controller B to IOM B of the third drive shelf.
- 5 Cable IOM B of the second drive shelf to IOM B of the third drive shelf.
- 6 Cable IOM B of the first drive shelf to IOM B of the second drive shelf.

Example A: An E5700 controller shelf with three DE212C/DE224 disk shelves in a standard SAS configuration.



Cable a controller shelf and one drive shelf

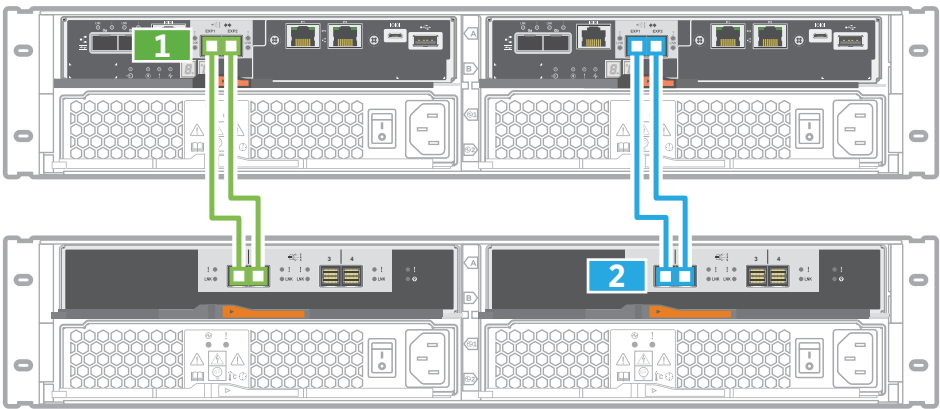
B
Example



• Storage cables

- 1 Cable controller A to IOM A.
- 2 Cable controller B to IOM B.

Example B: An E5700 controller shelf with one DE212C/DE224 disk shelf in a standard SAS configuration.



Power the Drive Shelves



- CAUTION:** Confirm the drive shelf power switches are off.
- 1 Connect the two power cables for each shelf to different power distribution units (PDUs) in the cabinet or rack.
- 2 If you have drive shelves, turn on their two power switches first. Wait 2 minutes before applying power to the controller shelf.
- 3 Turn on the two power switches on the controller shelf.
- 4 Check the LEDs and seven-segment display on each controller. During boot, the seven-segment display shows the repeating sequence of **OS**, **Sd**, **blank** to indicate the controller is performing start-of-day processing. After the controller has booted up, the shelf ID is displayed.

Example: Power connections are on the rear of the shelf.

