



Install your AFX system

AFX

NetApp

February 06, 2026

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Install your AFX system

Installation and setup workflow for AFX 1K storage systems

To install and configure your AFX 1K storage system, you review the hardware requirements, prepare your site, install the switches, install and cable the hardware components, power on the system, and set up your ONTAP AFX cluster.

1

Review the hardware installation requirements

Review the hardware requirements to install your AFX 1K storage system.

2

Prepare to install your AFX 1K storage system

Prepare to install your AFX 1K storage system by preparing the site, checking environmental and electrical requirements, ensuring sufficient rack space, unpacking the equipment, verifying contents to the packing slip, and registering the hardware for support.

3

Install the switches for your AFX 1K storage system

Install Cisco Nexus 9332D-GX2B or 9364D-GX2A switches in the cabinet or rack. Install a pass-through panel kit if using the Cisco Nexus 9364D-GX2A switch.

4

Install the hardware for your AFX 1K storage system

Install the rail kits for your storage system and shelves. Secure your storage system in the cabinet or telecommunications rack. Next, slide the shelves onto the installed rails. Finally, attach cable management devices to the rear of the storage system for organized cable routing.

5

Cable the controllers and shelves for your AFX 1K storage system

To cable the hardware, first connect the storage controller nodes to your network, then connect the controller nodes and storage shelves to the cluster switches.

6

Power on and configure the switches for your AFX 1K storage system

Cable the hardware, then power on and configure the switches for your AFX 1K storage system. Check the configuration instructions for the Cisco Nexus 9332D-GX2B and 9364D-GX2A switches.

7

Power on your AFX 1K storage system

Power on each storage shelf and assign a unique shelf ID before powering on the controller nodes to clearly identify each shelf in the setup.

Installation requirements for AFX 1K storage systems

Review the equipment needed and the lifting precautions for your AFX 1K storage controller and storage shelves.

Equipment needed for install

To install your AFX 1K storage system, you need the following equipment and tools.

- Access to a Web browser to configure your storage system
- Electrostatic discharge (ESD) strap
- Flashlight
- Laptop or console with a USB/serial connection
- Paperclip or narrow-tipped ballpoint pen for setting storage shelf IDs
- Phillips #2 screwdriver

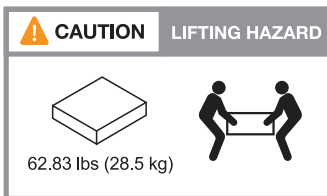
Lifting precautions

AFX storage controller and storage shelves are heavy. Exercise caution when lifting and moving these items.

Storage controller weights

Take the necessary precautions when moving or lifting your AFX 1K storage controller.

An AFX 1K storage controller can weigh up to 62.83 lbs (28.5 kg). To lift the storage controller, use two people or a hydraulic lift.

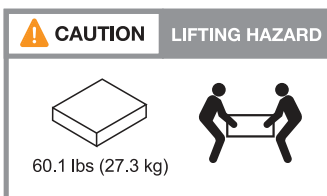


Storage shelf weights

Take the necessary precautions when moving or lifting your shelf.

NX224 shelf

An NX224 shelf can weigh up to 60.1 lbs (27.3 kg). To lift the shelf, use two people or a hydraulic lift. Keep all components in the shelf (both front and rear) to prevent unbalancing the shelf weight.



Related information

- [Safety information and regulatory notices](#)

What's next?

After you've reviewed the hardware requirements, you [prepare to install your AFX 1K storage system](#).

= Prepare to install your AFX 1K storage system :icons: font :relative_path: ./install-setup/ :imagesdir: /tmp/d20260206-1392446-ka57ya/source/./install-setup/./media/

Prepare to install your AFX 1K storage system by getting the site ready, unpacking the boxes and comparing the contents of the boxes to the packing slip, and registering the system to access support benefits.

== Step 1: Prepare the site To install your AFX 1K storage system, ensure that the site and the cabinet or rack that you plan to use meet specifications for your configuration.

Steps

1. Use [NetApp Hardware Universe](#) to confirm that your site meets the environmental and electrical requirements for your storage system.
2. Make sure you have adequate cabinet or rack space for your storage system, shelves, and switches:
 - 2U for each AFX controller node and NX224 shelf
 - 1U or 2U per switch, depending on switch model.

== Step 2: Unpack the boxes After ensuring the site and cabinet meet specifications, unpack the boxes and compare the contents to the packing slip.

Steps

1. Carefully open all the boxes and lay out the contents in an organized manner.
2. Compare the contents you've unpacked with the list on the packing slip. If you find any discrepancies, record them for further action.

You can get your packing list by scanning the QR code on the side of the shipping carton.

The following items are some of the contents you might see in the boxes.

Hardware

- Bezel
- Storage system
- Rail kits with instructions
- Storage shelf
- Cisco Nexus 9332D-GX2B or 9364D-GX2A switch

Cables

- Management Ethernet cables (RJ-45 cables)
- Network cables
- Power cords
- Storage cables
- USB-C serial port cable

== Step 3: Register your storage system After you ensure that your site meets the requirements for your AFX 1K storage system specifications, and you verify that you have all the parts you ordered, register your storage system.

Steps

1. Locate the serial numbers for your storage system.

You can find the serial numbers in the following locations:

- On the packing slip
- In your confirmation email
- On each controller or for some systems, on the system management module of each controller

SSN: XXXXXXXXXXXXX



2. Go to the [NetApp Support Site](#).
3. Decide whether you need to register your storage system:

| If you are a... | Follow these steps... |
|--------------------------|---|
| Existing NetApp customer | <ol style="list-style-type: none">a. Sign in with your username and password.b. Select Systems > My Systems.c. Confirm that the new serial number is listed.d. If the serial number is not listed, follow the instructions for new NetApp customers. |
| New NetApp customer | <ol style="list-style-type: none">a. Click Register Now, and create an account.b. Select Systems > Register Systems.c. Enter the storage system's serial number and requested details. <p>Once NetApp approves your registration, you can download the required software. Approval takes up to 24 hours.</p> |

What's next?

After you've prepared to install your AFX 1K hardware, you [install the switches for your AFX 1K storage system](#).

= Install hardware

= Install the switches for your AFX 1K storage system :icons: font :relative_path: ./install-setup/ :imagesdir: /tmp/d20260206-1392446-ka57ya/source/./install-setup/./media/

After you complete your preparation for the AFX 1K storage system installation, you should install the switches in the cabinet or telco rack.

Install Cisco Nexus 9332D-GX2B or 9364D-GX2A switches in the cabinet or rack. Install a pass-through panel kit if using the Cisco Nexus 9364D-GX2A switch.

Before you begin

Make sure you have the following components available:

- The pass-through panel kit, which is available from NetApp (part number X8784-R6).

The NetApp pass-through panel kit contains the following hardware:

- One pass-through blanking panel
- Four 10-32 x .75 screws
- Four 10-32 clip nuts
- For each switch, eight 10-32 or 12-24 screws and clip nuts to mount the brackets and slider rails to the front and rear cabinet posts.
- The Cisco standard rail kit to install the switch in a NetApp cabinet.



Jumper cords are not included with the pass-through kit. Contact NetApp to order the right jumper cables if they are not shipped with your switches.

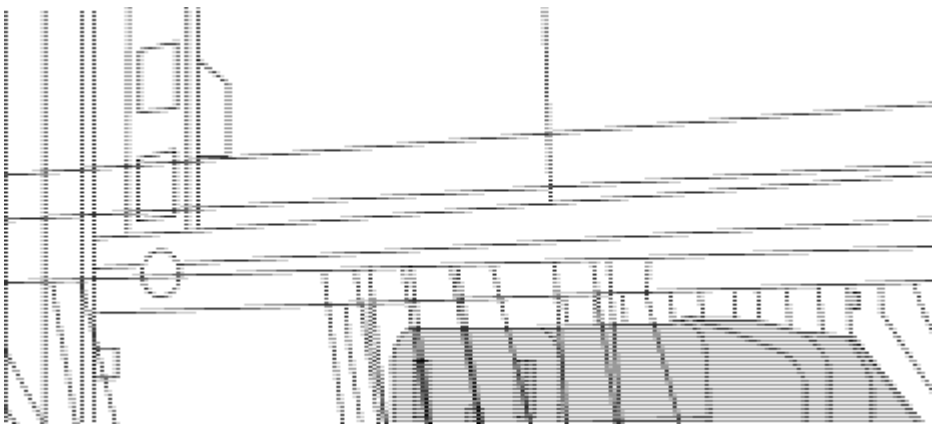


If the airflow for your switches is configured for port-side intake (burgundy colored fans and PSUs), the network ports for the switches must be installed facing the front of the cabinet, and the exhaust fans must face the rear of the cabinet. With this configuration, you must ensure that you use cables long enough to run from the network ports in the front of the cabinet to the storage ports in the rear of the cabinet.

For more detailed information about these switches, please visit the Cisco website: [Cisco Nexus 9332D-GX2B NX-OS Mode Switch Hardware Installation Guide](#) and [Cisco Nexus 9364D-GX2A NX-OS Mode Switch Hardware Installation Guide](#).

Steps

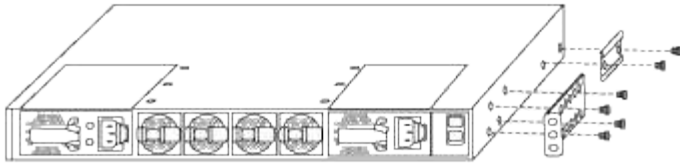
1. Install the pass-through blanking panel.
 - a. Determine the vertical location of the switches and blanking panel in the cabinet or rack.
 - b. Install two clip nuts on each side in the appropriate square holes for front cabinet rails.
 - c. Center the panel vertically to prevent intrusion into adjacent rack space, and then tighten the screws.
 - d. Insert the female connectors of both jumper cords from the rear of the panel and through the brush assembly.



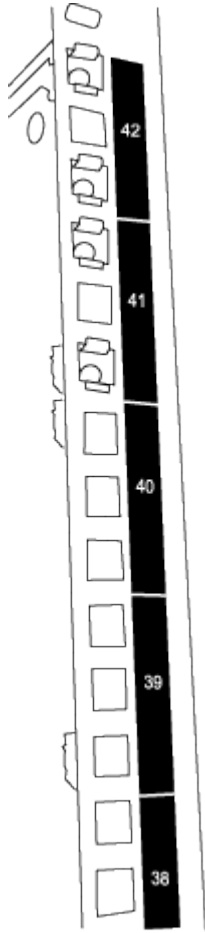
1

Female connector of the jumper cord.

2. Install the rack-mount brackets on the switch chassis.
 - a. Position a front rack-mount bracket on one side of the switch chassis so that the mounting ear is aligned with the chassis faceplate (on the PSU or fan side), and then use four M4 screws to attach the bracket to the chassis.

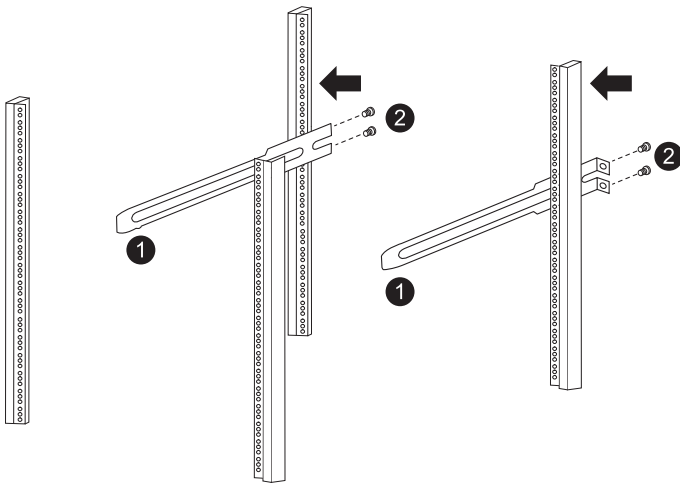


- b. Repeat step 2a with the other front rack-mount bracket on the other side of the switch.
 - c. Install the rear rack-mount bracket on the switch chassis.
 - d. Repeat step 2c with the other rear rack-mount bracket on the other side of the switch.
3. Install the clip nuts in the square hole locations for all four IEA posts.



Mount the two 9332D-GX2B switches in cabinet locations that provide efficient access to controllers and shelves, such as the middle rows.

4. Install the slider rails in the cabinet or rack.
 - a. Position the first slider rail at the desired location on the back side of the rear left post, insert screws with the matching thread type, and then tighten the screws with your fingers.



| | |
|---|---|
| 1 | As you gently slide the slider rail, align it to the screw holes in the rack. |
| 2 | Tighten the screws of the slider rails to the cabinet posts. |

b. Repeat step 4a for the right-side rear post.

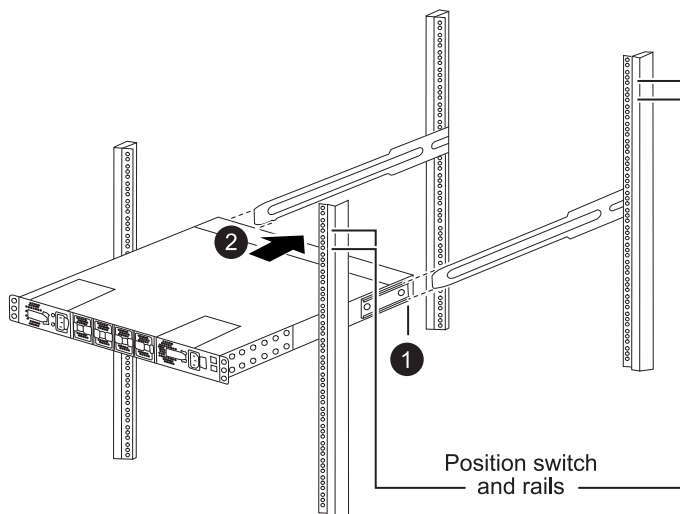
c. Repeat steps 4a and 4b at the desired locations on the cabinet.

5. Install the switch in the cabinet or rack.



This step requires two people: one person to support the switch from the front and another to guide the switch into the rear slider rails.

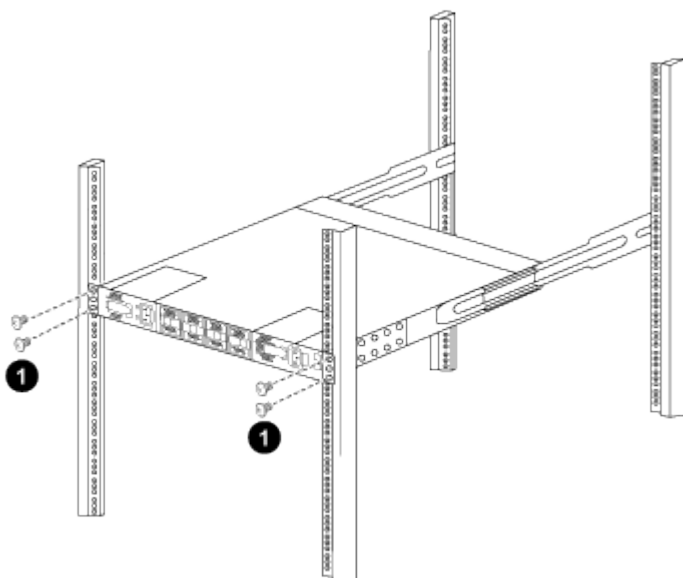
a. Position the back of the switch at the desired location on the cabinet.



| | |
|---|--|
| 1 | As the chassis is pushed toward the rear posts, align the two rear rack-mount guides with the slider rails |
|---|--|

| | |
|---|---|
| 2 | Gently slide the switch until the front rack-mount brackets are flush with the front posts. |
|---|---|

b. Attach the switch to the cabinet or rack.



| | |
|---|--|
| 1 | With one person holding the front of the chassis level, the other person should fully tighten the four rear screws to the cabinet posts. |
|---|--|

c. With the chassis now supported without assistance, fully tighten the front screws to the posts.

d. Repeat steps 5a through 5c for the second switch at the desired location on the cabinet.



By using the fully installed switch as a support, it is not necessary to hold the front of the second switch during the installation process.

6. When the switches are installed, connect the jumper cords to the switch power inlets.

7. Connect the male plugs of both jumper cords to the closest available PDU outlets.



To maintain redundancy, the two cords must be connected to different PDUs.

8. Connect the management port on each switch to either of the management switches (if ordered) or connect them directly to your management network.

The management network port is the lower RJ-45 port near the right PSU. Route the CAT6 cable for each switch through the pass-through panel after installing the switches to connect to the management switches or network.

What's next?

After you install the switches in the cabinet or rack, you [install the AFX 1K storage system and shelves in the cabinet or rack](#).

= Install your AFX 1K storage system :icons: font :relative_path: ./install-setup/ :imagesdir: /tmp/d20260206-1392446-ka57ya/source/./install-setup/./media/

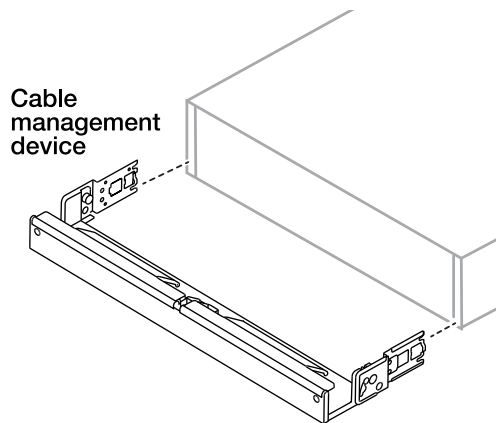
After you install the switches, you should install the hardware for your AFX 1K storage system. First, install the rail kits. Then install and secure your storage system in a cabinet or telco rack.

Before you begin

- Make sure you have the instructions packaged with the rail kit.
- Understand the safety concerns related to the weight of the storage system and storage shelf.
- Understand that the airflow through the storage system enters from the front where the bezel or end caps are installed and exhausts out the rear where the ports are located.

Steps

1. Install the rail kits for your storage system and storage shelves, as needed, using the instructions included with the kits.
2. Install and secure your controller in the cabinet or telco rack:
 - a. Position the storage system onto the rails in the middle of the cabinet or telco rack, and then support the storage system from the bottom and slide it into place.
 - b. Secure the storage system to the cabinet or telco rack using the included mounting screws.
3. Attach the bezel to the front of the controller.
4. If your AFX 1K storage system came with a cable management device, attach it to the rear of the storage system.



5. Install and secure the storage shelf:
 - a. Position the back of the storage shelf onto the rails, and then support the shelf from the bottom and slide it into the cabinet or telco rack.

In general, storage shelves and controllers should be installed in close proximity to the switches. If you are installing multiple storage shelves, place the first storage shelf directly above the controllers. Place the second storage shelf directly under the controllers. Repeat this pattern for any additional storage shelves.

- b. Secure the storage shelf to the cabinet or telco rack using the included mounting screws.

What's next?

After you've installed the hardware for your AFX system, review the [supported cabling configurations for your AFX 1K storage system](#).

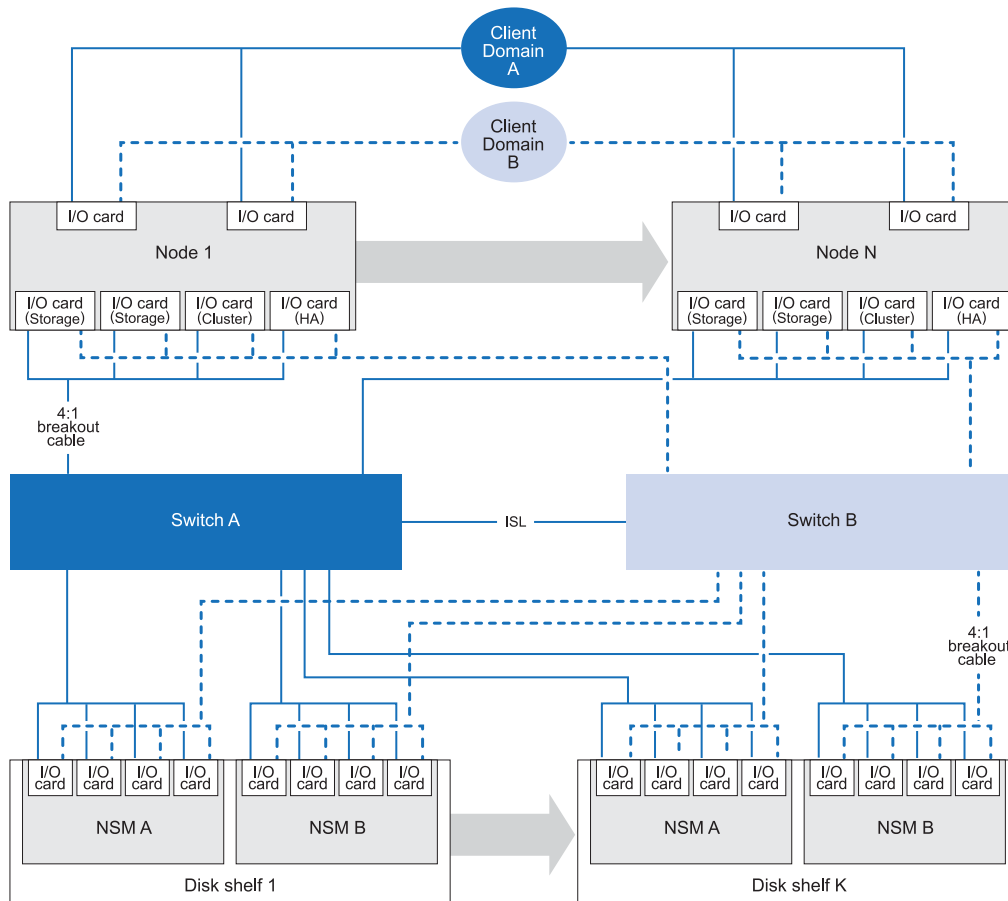
= Cabling

= Supported configurations for your AFX 1K storage system :icons: font :relative_path: ./install-setup/
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Learn about the supported hardware components and cabling options for the AFX 1K storage system, including compatible storage disk shelves, switches, and cable types required for proper system setup.

== Supported AFX 1K cabling configuration The initial configuration of the AFX 1K storage system supports a minimum of four controller nodes connected through dual switches to the storage disk shelves.

Additional controller nodes and disk shelves expand the initial AFX 1K storage system configuration. Expanded AFX 1K configurations follow the same switch-based cabling methodology as the schema depicted below.



== Supported hardware components Review the compatible storage disk shelves, switches, and cable types for the AFX 1K storage system.

| Controller Shelf | Disk Shelf | Supported Switches | Supported Cables |
|------------------|------------|--|--|
| AFX 1K | NX224 | <ul style="list-style-type: none"> • Cisco Nexus 9332D-GX2B (400GbE) • Cisco Nexus 9364D-GX2A (400GbE) | <ul style="list-style-type: none"> • 400GbE QSFP-DD breakout to 4x100GbE QSFP breakout cable cables <div>  <p>Breakout cables are used for 100GbE connections between the switches, controllers, and disk shelves.</p> </div> <ul style="list-style-type: none"> ◦ 100GbE cables to controller cluster and HA ports ◦ 100GbE cables to disk shelves • 2 x 400GbE cables for ISL connections between switch A and switch B • RJ-45 cables for management connections |

What's next?

After reviewing the supported system configuration and hardware components, [review the network requirements for your AFX 1K storage system](#).

= Network requirements for your AFX 1K storage system :hardbreaks: :icons: font :linkattrs: :relative_path: ./install-setup/ :imagesdir: /tmp/d20260206-1392446-ka57ya/source/./install-setup/./media/

Record the required information for each network you connect to your AFX 1K storage system.

== Gather network information Before you begin the installation of your AFX 1K storage system, gather the required network information

- Host names and IP addresses for each of the storage system controllers and all applicable switches.

Most storage system controllers are managed through the e0M interface by connecting to the Ethernet service port (wrench icon).

Refer to the [Hardware Universe](#) for the latest information.

- Cluster management IP address

The cluster management IP address is a unique IP address for the cluster management interface used by the cluster administrator to access the admin storage VM and manage the cluster. You can obtain this IP address from the administrator responsible for assigning IP addresses in your organization.

- Network subnet mask

During cluster setup, ONTAP recommends a set of network interfaces appropriate for your configuration. You can adjust the recommendation if necessary.

- Network gateway IP address
- Node management IP addresses (one per node)

- DNS domain names
- DNS name server IP addresses
- NTP server IP addresses
- Data subnet mask
- IP subnet for management network traffic.

== Network requirements for Cisco switches For Cisco Nexus 9332D-GX2B and and 9364D-GX2A switch installation and maintenance, be sure to review cabling and network requirements.

=== Network requirements

You need the following network information for all switch configurations.

- IP subnet for management network traffic
- Host names and IP addresses for each of the storage system controllers and all applicable switches
- Refer to the [Hardware Universe](#) for the latest information.

=== Cabling requirements

- You have the appropriate number and type of cables and cable connectors for your switches. See the [Hardware Universe](#).
- Depending on the type of switch you are initially configuring, you need to connect to the switch console port with the included console cable.

What's next?

After reviewing the network requirements, you [cable the controllers and storage shelves for your AFX 1K storage system](#).

= Cable the hardware for your AFX 1K storage system :icons: font :relative_path: ../install-setup/ :imagesdir: /tmp/d20260206-1392446-ka57ya/source/./install-setup/./media/

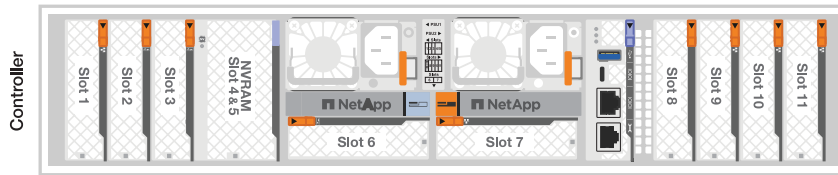
After you install the rack hardware for your AFX 1K storage system, install the network cables for the controllers, and connect the cables between the controllers and storage shelves.

Before you begin

Contact your network administrator for information about connecting the storage system to your network switches.

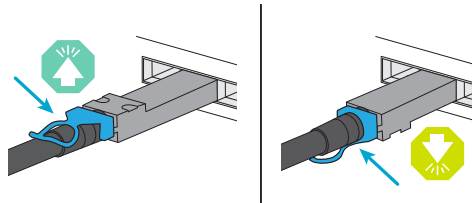
About this task

- These procedures show common configurations. The specific cabling depends on the components ordered for your storage system. For comprehensive configuration details and slot priorities, see [NetApp Hardware Universe](#).
- The I/O slots on an AFX controller are numbered 1 through 11.



- The cabling graphics show arrow icons indicating the proper orientation (up or down) of the cable connector pull-tab when inserting a connector into a port.

As you insert the connector, you should feel it click into place; if you do not feel it click, remove it, turn it over and try again.



The connector components are delicate and care should be taken when clicking into place.

- When cabling to an optical fiber connection, insert the optical transceiver into the controller port before cabling to the switch port.
- The AFX 1K storage system utilizes 4x100GbE breakout cables on the cluster and storage network. The 400GbE connections are made to the switch ports, and the 100GbE connections are made to the controller and drive shelf ports. Storage and HA/Cluster connections can be made to any non-ISL port on the switch.

For a given 4x100GbE breakout cable connection to the specific switch port, you connect all four ports from a given controller to the switch over this single breakout cable.

- 1 x HA port (slot 1)
- 1 x cluster port (slot 7)
- 2 x storage ports (slots 10, 11)

All "a" ports connect to switch A, and all "b" ports connect to switch B.



Cisco Nexus 9332D-GX2B and 9364D-GX2A switch configurations to the AFX 1K storage system require 4x100GbE breakout cable connections.

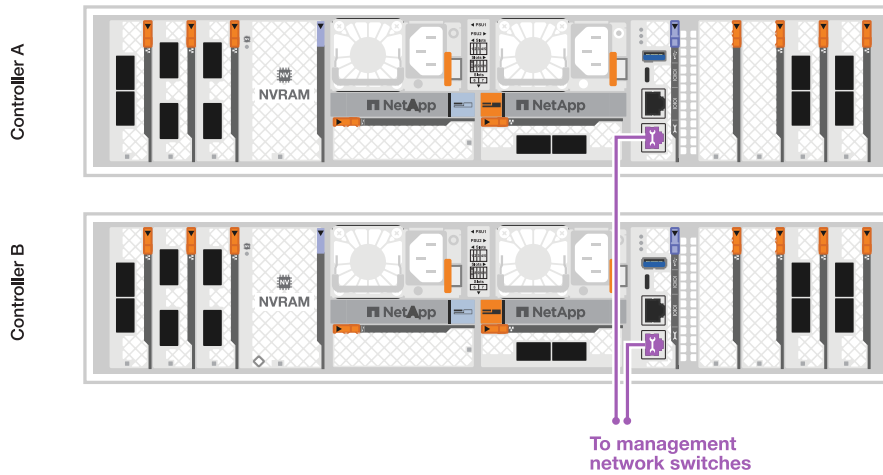
== Step 1: Connect the controllers to the management network Connect the management port on each switch to either of the management switches (if ordered) or connect them directly to your management network.

The management port is the upper-right port located on the PSU side of the switch. The CAT6 cable for each switch needs to be routed through the pass-through panel after the switches are installed to connect to the management switches or management network.

Use the 1000BASE-T RJ-45 cables to connect the management (wrench) ports on each controller to the management network switches.



1000BASE-T RJ-45 cables



Do not plug in the power cords yet.

1. Connect to host network.

== Step 2: Connect the controllers to the host network Connect the Ethernet module ports to your host network.

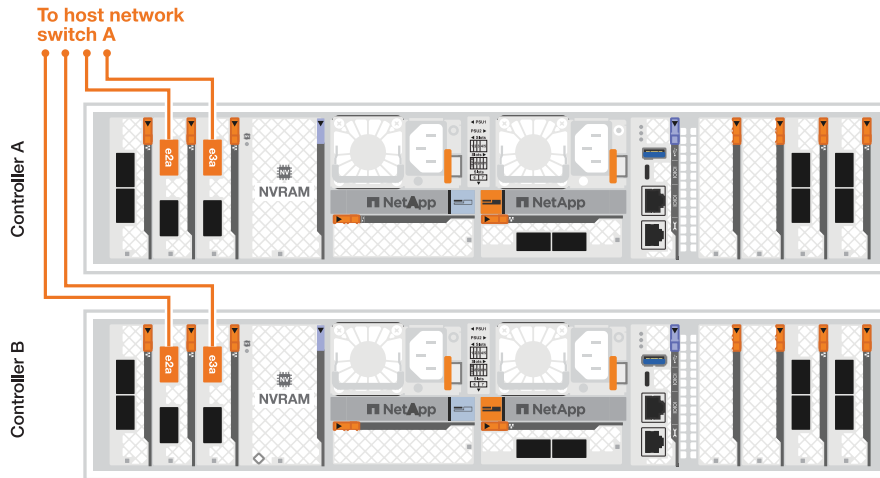
This procedure may differ depending on your I/O module configuration. The following are some typical host network cabling examples. See [NetApp Hardware Universe](#) for your specific system configuration.

Steps

1. Connect the following ports to your Ethernet data network switch A.
 - Controller A (Example)
 - e2a
 - e3a
 - Controller B (Example)
 - e2a
 - e3a

100GbE cables

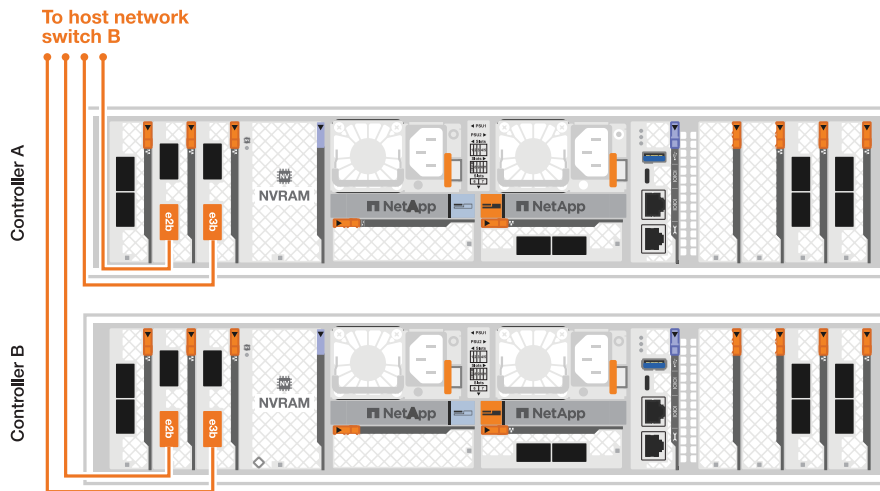




2. Connect the following ports to your Ethernet data network switch B.

- Controller A (Example)
 - e2b
 - e3b
- Controller B (Example)
 - e2b
 - e3b

100GbE cables



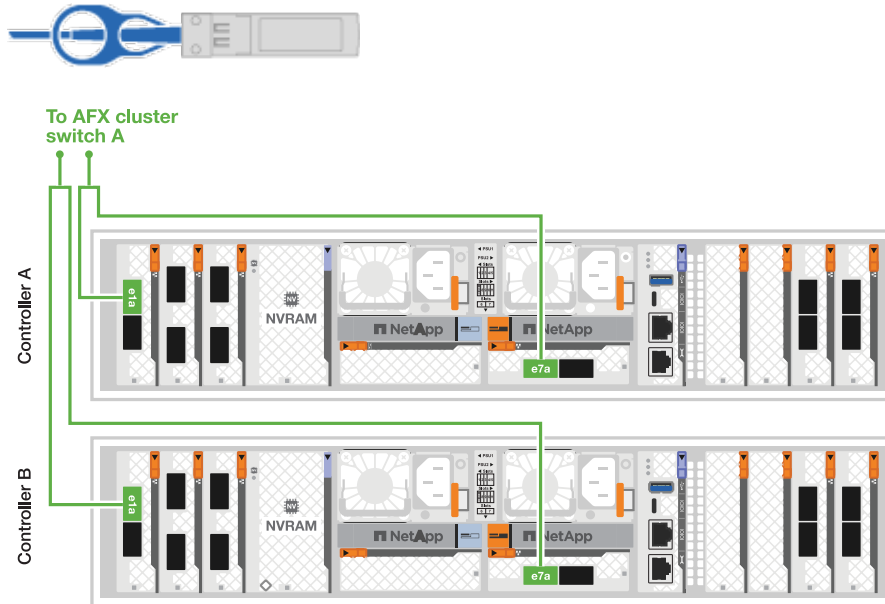
== Step 3: Cable the cluster and HA connections Use the Cluster and HA interconnect cable to connect ports e1a and e7a to switch A and e1b and e7b to switch B. The e1a/e1b ports are used for the HA connections, and the e7a/e7b ports are used for the cluster connections.

Steps

1. Connect the following controller ports to any non-ISL port on the cluster network switch A.

- Controller A
 - e1a (HA)
 - e7a (Cluster)
- Controller B
 - e1a (HA)
 - e7a (Cluster)

100GbE cables

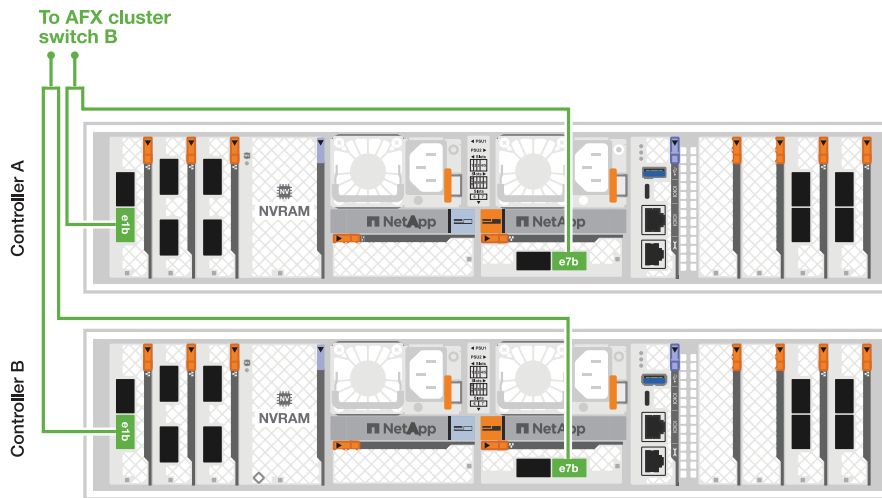


2. Connect the following controller ports to any non-ISL port on the cluster network switch B.

- Controller A
 - e1b (HA)
 - e7b (Cluster)
- Controller B
 - e1b (HA)
 - e7b (Cluster)

100GbE cables





== Step 4: Cable the controller-to-switch storage connections Connect the controller storage ports to the switches. Ensure you have the correct cables and connectors for your switches. See [Hardware Universe](#) for more information.

1. Connect the following storage ports to any non-ISL port on switch A.

- Controller A
 - e10a
 - e11a
- Controller B
 - e10a
 - e11a

100GbE cables

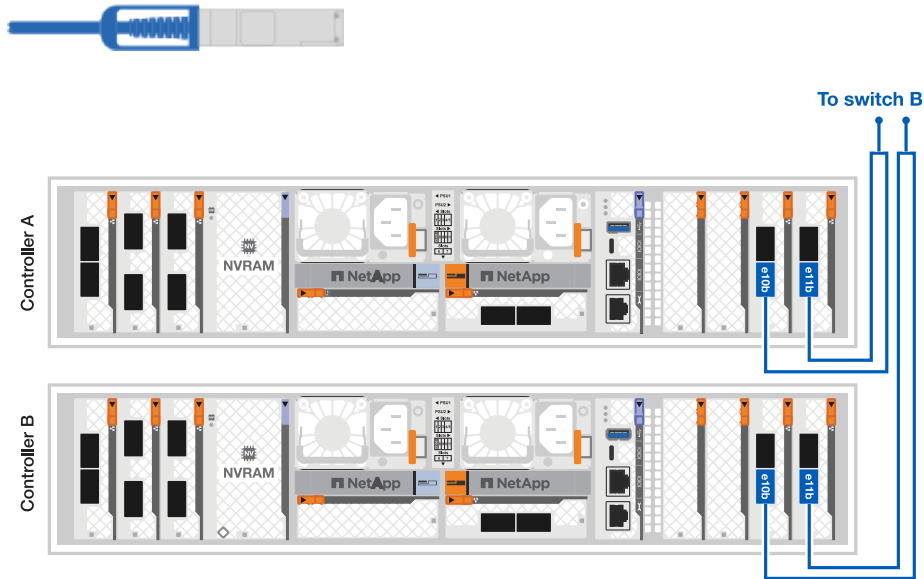


2. Connect the following storage ports to any non-ISL port on switch B.

- Controller A

- e10b
- e11b
- Controller B
 - e10b
 - e11b

100GbE cables



== Step 5: Cable the shelf-to-switch connections Connect the NX224 storage shelves to the switches.

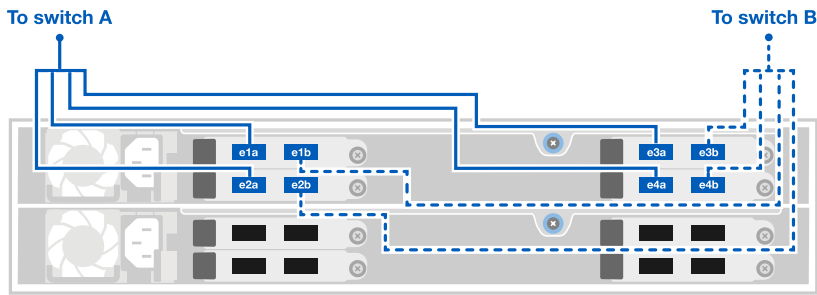
For the maximum number of shelves supported for your storage system and for all of your cabling options, see [NetApp Hardware Universe](#).

1. Connect the following shelf ports to any non-ISL port on switch A and switch B for module A.

- Module A to switch A connections
 - e1a
 - e2a
 - e3a
 - e4a
- Module A to switch B connections
 - e1b
 - e2b
 - e3b
 - e4b

100GbE cables





2. Connect the following shelf ports to any non-ISL port on switch A and switch B for module B.

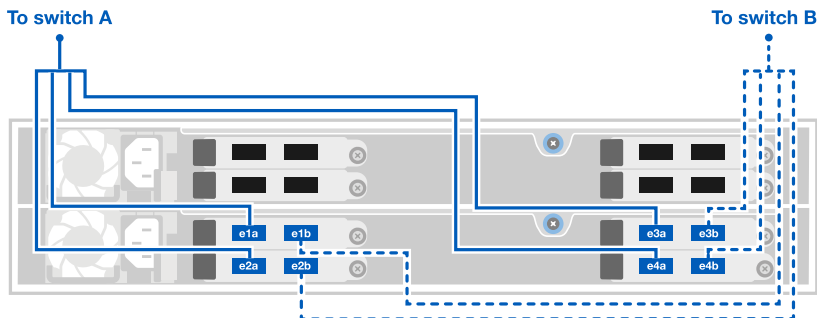
- Module B to switch A connections

- e1a
- e2a
- e3a
- e4a

- Module B to switch B connections

- e1b
- e2b
- e3b
- e4b

100GbE cables



What's next?

After cabling the hardware, [power on and configure the switches](#).

= Power on and configure the switches for your AFX 1K storage system :icons: font :relative_path: ./install-setup/ :imagesdir: /tmp/d20260206-1392446-ka57ya/source/./install-setup/./media/

After you cable your AFX 1K storage system, you need to power on and configure the Cisco Nexus 9332D-GX2B or 9364D-GX2A switches.

Steps

1. Plug the power cords for the switches into the power sources.

2. Connect the ISL cables between the two switches.
 - For Cisco Nexus 9332D-GX2B switches, use ports 31/32 for the ISL connections. See the [Cisco Nexus 9332D-GX2B NX-OS Mode Switch Hardware Installation Guide](#) for more information.
 - For Cisco Nexus 9364D-GX2A switches, use ports 63/64 for the ISL connections. See the [Cisco Nexus 9364D-GX2A NX-OS Mode Switch Hardware Installation Guide](#) for more information.
3. Power on each switch.
4. Configure the switches to support the AFX 1K storage system.
 - For Cisco Nexus 9332D-GX2B switches, see the cluster and storage switches documentation [Configure Cisco Nexus 9332D-GX2B switch](#).
 - For Cisco Nexus 9364D-GX2A switches, see the cluster and storage switches documentation [Configure Cisco Nexus 9364D-GX2A switch](#).

What's next?

After configuring the switches for your AFX 1K storage system, [power on the AFX 1K storage system](#).

= Power on your AFX 1K storage system :icons: font :relative_path: ./install-setup/ :imagesdir: /tmp/d20260206-1392446-ka57ya/source/./install-setup/./media/

After you install the rack hardware for your AFX 1K storage system and install the cables for the controller nodes and storage shelves, you should power on your storage shelves and controller nodes.

== Step 1: Power on the shelf and assign shelf ID Each shelf has a unique shelf ID, ensuring its distinction in your storage system setup.

About this task

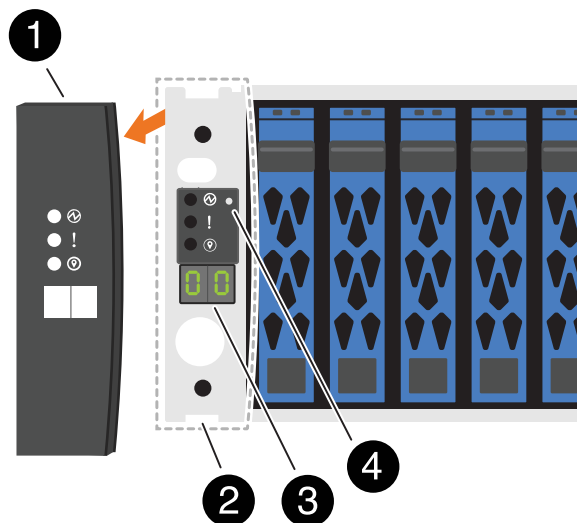
- A valid shelf ID is 01 through 99.
- You must power cycle a shelf (unplug both power cords, wait a minimum of 10 seconds, and then plug them back in) for the shelf ID to take effect.

Steps

1. Power on the shelf by connecting the power cords first to the shelf, securing them in place with the power cord retainer, and then connecting the power cords to power sources on different circuits.

The shelf automatically powers on and boots when plugged in.

2. Remove the left end cap to access the shelf ID button behind the faceplate.



| | |
|---|-----------------|
| 1 | Shelf end cap |
| 2 | Shelf faceplate |
| 3 | Shelf ID number |
| 4 | Shelf ID button |

3. Change the first number of the shelf ID:

- a. Insert the straightened end of a paperclip or narrow tipped ball point pen into the small hole to gently press the shelf ID button.
- b. Gently press and hold the shelf ID button until the first number on the digital display blinks, and then release the button.

The number blinks within 15 seconds, activating shelf ID programming mode.



If the ID takes longer than 15 seconds to blink, press and hold the shelf ID button again, making sure to press it in all the way.

- c. Press and release the shelf ID button to advance the number until you reach the desired number from 0 to 9.

Each press and release duration can be as short as one second.

The first number continues to blink.

4. Change the second number of the shelf ID:

- a. Press and hold the button until the second number on the digital display blinks.

It can take up to three seconds for the number to blink.

The first number on the digital display stops blinking.

- b. Press and release the shelf ID button to advance the number until you reach the desired number from 0 to 9.

The second number continues to blink.

5. Lock in the desired number and exit the programming mode by pressing and holding the shelf ID button until the second number stops blinking.

It can take up to three seconds for the number to stop blinking.

Both numbers on the digital display start blinking and the amber LED illuminates after about five seconds, alerting you that the pending shelf ID has not yet taken effect.

6. Power-cycle the shelf for at least 10 seconds to make the shelf ID take effect.
 - a. Unplug the power cord from both power supplies on the shelf.
 - b. Wait 10 seconds.
 - c. Plug the power cords back into the shelf power supplies to complete the power cycle.

The power supply powers on as soon as you plug in the power cord. Its bicolored LED should illuminate green.

7. Replace the left end cap.

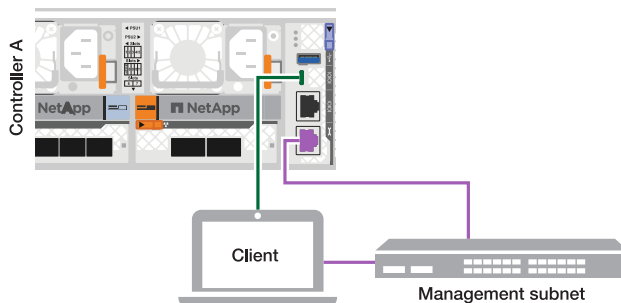
== Step 2: Power on the controller nodes After you've turned on your storage shelves and assigned them unique IDs, turn on the power to the storage controller nodes.

Steps

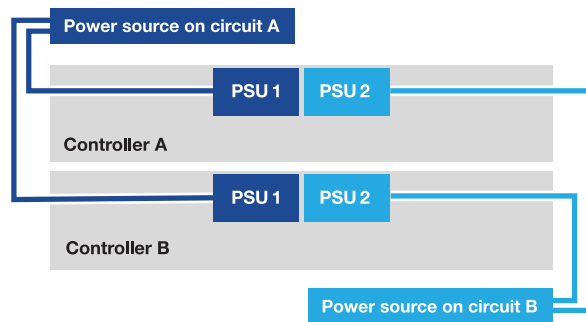
1. Connect your laptop to the serial console port. This allows you to monitor the boot sequence when the controllers are powered on.
 - a. Set the serial console port on the laptop to 115,200 baud with N-8-1.

See your laptop's online help for instructions on how to configure the serial console port.

- b. Connect the console cable to the laptop, and connect the serial console port on the controller using the console cable that came with your storage system.
 - c. Connect the laptop to the switch on the management subnet.



2. Assign a TCP/IP address to the laptop, using one that is on the management subnet.
3. Plug the power cords into the controller power supplies, and then connect them to power sources on different circuits.



- The system begins to boot. Initial booting may take up to eight minutes.
- The LEDs flash on and the fans start, indicating that the controllers are powering on.
- The fans may be noisy at start-up, which is normal.

4. Secure the power cords using the securing device on each power supply.

What's next?

After you've turned on your AFX 1K storage system, you [set up an AFX cluster](#).

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