Install hardware

AFX

NetApp
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Table of Contents

Install hardware 1
Install the switches for your AFX 1K storage system 1
Install your AFX 1K storage system 5

Install hardware

Install the switches for your AFX 1K storage system

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:

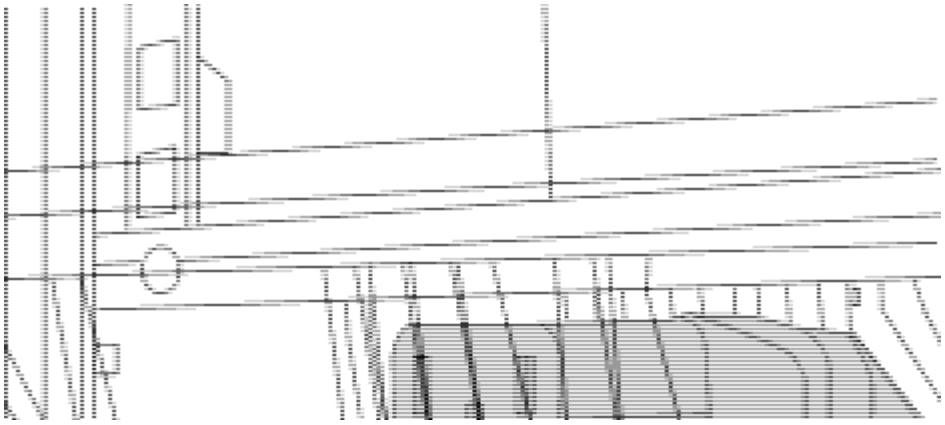
  - One pass-through blanking panel
  - Four 10-32 x .75 screws
  - Four 10-32 clip nuts
- For each switch, eight 10-32 or 12-24 screws and clip nuts to mount the brackets and slider rails to the front and rear cabinet posts.
- The Cisco standard rail kit to install the switch in a NetApp cabinet.

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.

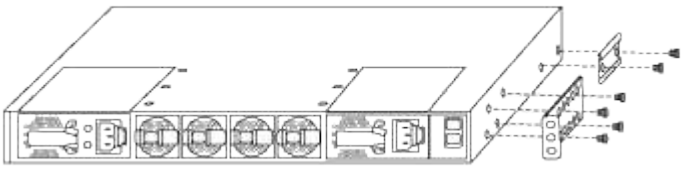
Steps

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.

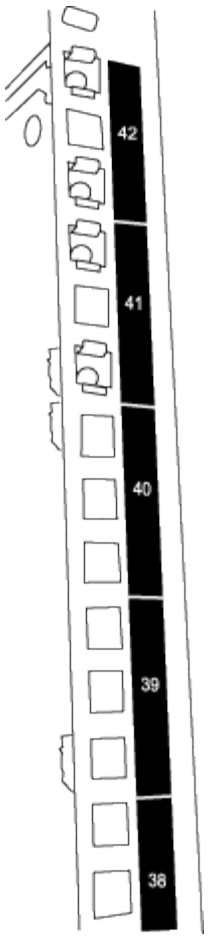


1	Female connector of the jumper cord.

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.

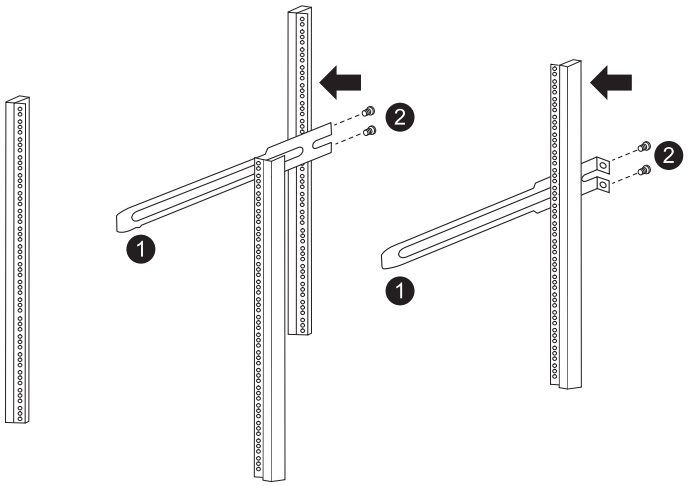


   b. Repeat step 2a with the other front rack-mount bracket on the other side of the switch.
   c. Install the rear rack-mount bracket on the switch chassis.
   d. Repeat step 2c with the other rear rack-mount bracket on the other side of the switch.
3. Install the clip nuts in the square hole locations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

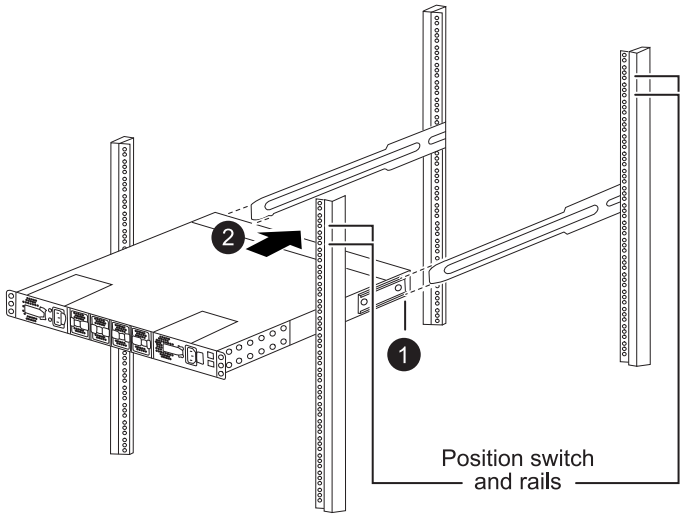
b. Repeat step 4a for the right-side rear post.

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

5. Install the switch in the cabinet or rack.

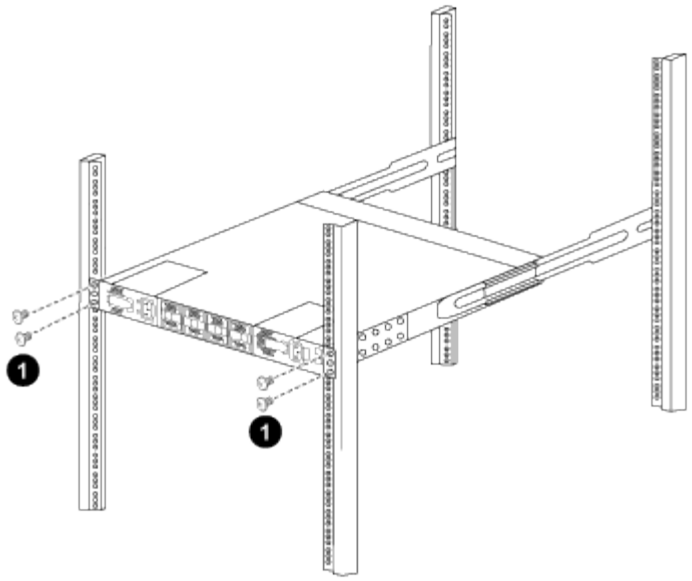
> This step requires two people: one person to support the switch from the front and another to guide the switch into the rear slider rails.

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

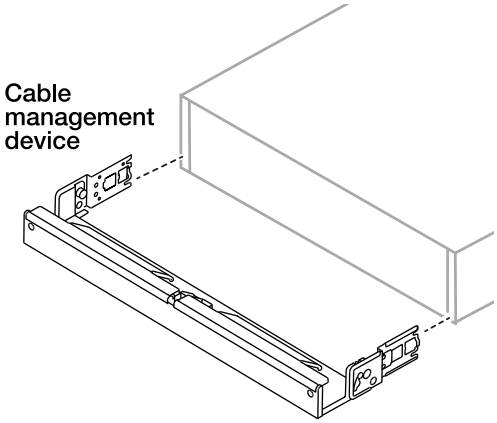
After you install the switches, you should install the hardware for your AFX 1K storage system. First, install the rail kits. Then install and secure your storage system in a cabinet or telco rack.

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.

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