



## Install the hardware

Install and maintain

NetApp  
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# Install the hardware

## Hardware install workflow for Cisco Nexus 9336C-FX2 and 9336C-FX2-T storage switches

To install and configure the hardware for 9336C-FX2 and 9336C-FX2-T storage switches, follow these steps:

1

### Complete the cabling worksheet

The sample cabling worksheet provides examples of recommended port assignments from the switches to the controllers. The blank worksheet provides a template that you can use in setting up your cluster.

2

### Install the switch

Install the 9336C-FX2 and 9336C-FX2-T storage switches.

3

### Install the switch in a NetApp cabinet

Install the 9336C-FX2 and 9336C-FX2-T switches and pass-through panel in a NetApp cabinet as required.

## Complete the Cisco Nexus 9336C-FX2 or 9336C-FX2-T cabling worksheet

If you want to document the supported platforms, download a PDF of this page and complete the cabling worksheet.

The sample cabling worksheet provides examples of recommended port assignments from the switches to the controllers. The blank worksheet provides a template that you can use in setting up your cluster.

- [9336C-FX2 sample cabling worksheet](#)
- [9336C-FX2 blank cabling worksheet](#)
- [9336C-FX2-T sample cabling worksheet \(12-port\)](#)
- [9336C-FX2-T blank cabling worksheet \(12-port\)](#)

### 9336C-FX2 sample cabling worksheet

The sample port definition on each pair of switches is as follows:

Cluster switch A		Cluster switch B	
Switch port	Node and port usage	Switch port	Node and port usage
1	4x100GbE node 1	1	4x100GbE node 1

Cluster switch A		Cluster switch B	
2	4x100GbE node 2	2	4x100GbE node 2
3	4x100GbE node 3	3	4x100GbE node 3
4	4x100GbE node 4	4	4x100GbE node 4
5	4x100GbE node 5	5	4x100GbE node 5
6	4x100GbE node 6	6	4x100GbE node 6
7	4x100GbE node 7	7	4x100GbE node 7
8	4x100GbE node 8	8	4x100GbE node 8
9	4x100GbE node 9	9	4x100GbE node 9
10	4x100GbE node 10	10	4x100GbE node 10
11	4x100GbE node 11	11	4x100GbE node 11
12	4x100GbE node 12	12	4x100GbE node 12
13	4x100GbE node 13	13	4x100GbE node 13
14	4x100GbE node 14	14	4x100GbE node 14
15	4x100GbE node 15	15	4x100GbE node 15
16	4x100GbE node 16	16	4x100GbE node 16
17	4x100GbE node 17	17	4x100GbE node 17
18	4x100GbE node 18	18	4x100GbE node 18
19	4x100GbE node 19	19	4x100GbE node 19
20	4x100GbE node 20	20	4x100GbE node 20
21	4x100GbE node 21	21	4x100GbE node 21
22	4x100GbE node 22	22	4x100GbE node 22
23	4x100GbE node 23	23	4x100GbE node 23

Cluster switch A		Cluster switch B	
24	4x100GbE node 24	24	4x100GbE node 24
25	4x100GbE node 25	25	4x100GbE node 25
26	4x100GbE node 26	26	4x100GbE node 26
27	4x100GbE node 27	27	4x100GbE node 27
28	4x100GbE node 28	28	4x100GbE node 28
29	4x100GbE node 29	29	4x100GbE node 29
30	4x100GbE node 30	30	4x100GbE node 30
31	4x100GbE node 31	31	4x100GbE node 31
32	4x100GbE node 32	32	4x100GbE node 32
33	4x100GbE node 33	33	4x100GbE node 33
30	4x100GbE node 30	30	4x100GbE node 33
34	4x100GbE node 34	34	4x100GbE node 34
35	4x100GbE node 35	35	4x100GbE node 35
36	4x100GbE node 36	36	4x100GbE node 36

## 9336C-FX2 blank cabling worksheet

You can use the blank cabling worksheet to document the platforms that are supported as nodes in a cluster. The *Supported Cluster Connections* section of the [Hardware Universe](#) defines the cluster ports used by the platform.

Cluster switch A		Cluster switch B	
1		1	
2		2	
3		3	
4		4	

Cluster switch A		Cluster switch B	
5		5	
6		6	
7		7	
8		8	
9		9	
10		10	
11		11	
12		12	
13		13	
14		14	
15		15	
16		16	
17		17	
18		18	
19		19	
20		20	
21		21	
22		22	
23		23	
24		24	
25		25	
26		26	

Cluster switch A		Cluster switch B	
27		27	
28		28	
29		29	
30		30	
31		31	
32		32	
33		33	
34		34	
35		35	
36		36	

### 9336C-FX2-T sample cabling worksheet (12-port)

The sample port definition on each pair of switches is as follows:

Cluster switch A		Cluster switch B	
Switch port	Node and port usage	Switch port	Node and port usage
1	4x100GbE node 1	1	4x100GbE node 1
2	4x100GbE node 2	2	4x100GbE node 2
3	4x100GbE node 3	3	4x100GbE node 3
4	4x100GbE node 4	4	4x100GbE node 4
5	4x100GbE node 5	5	4x100GbE node 5
6	4x100GbE node 6	6	4x100GbE node 6
7	4x100GbE node 7	7	4x100GbE node 7
8	4x100GbE node 8	8	4x100GbE node 8

Cluster switch A		Cluster switch B	
9	4x100GbE node 9	9	4x100GbE node 9
10	4x100GbE node 10	10	4x100GbE node 10
11 through 36	Requires license	11 through 36	Requires license

## 9336C-FX2-T blank cabling worksheet (12-port)

You can use the blank cabling worksheet to document the platforms that are supported as nodes in a cluster.

Cluster switch A		Cluster switch B	
1		1	
2		2	
3		3	
4		4	
5		5	
6		6	
7		7	
8		8	
9		9	
10		10	
11 through 36	Requires license	11 through 36	Requires license

See the [Hardware Universe](#) for more information on switch ports.

### What's next

After you've completed your cabling worksheets, you can [install the switch](#).

## Install the 9336C-FX2 and 9336C-FX2-T storage switches

Follow this procedure to install Cisco Nexus 9336C-FX2 and 9336C-FX2-T storage switches.

## Before you begin

Make sure you have the following:

- Access to an HTTP, FTP or TFTP server at the installation site to download the applicable NX-OS and reference configuration file (RCF) releases.
- Applicable NX-OS version, downloaded from the [Cisco Software Download](#) page.
- Applicable licenses, network and configuration information, and cables.
- Completed [cabling worksheets](#).
- Applicable NetApp cluster network and management network RCFs downloaded from the NetApp Support Site at [mysupport.netapp.com](http://mysupport.netapp.com). All Cisco cluster network and management network switches arrive with the standard Cisco factory-default configuration. These switches also have the current version of the NX-OS software but do not have the RCFs loaded.
- Required switch documentation. See [Required documentation](#) for more information.

## Steps

1. Rack the cluster network and management network switches and controllers.

If you are installing your...	Then...
Cisco Nexus 9336C-FX2 in a NetApp system cabinet	See <a href="#">Install switch in NetApp cabinet</a> for instructions to install the switch in a NetApp cabinet.
Equipment in a Telco rack	See the procedures provided in the switch hardware installation guides and the NetApp installation and setup instructions.

2. Cable the cluster network and management network switches to the controllers using the completed cabling worksheets.
3. Power on the cluster network and management network switches and controllers.

## What's next?

Optionally, you can [install a Cisco Nexus 9336C-FX2 switch in a NetApp cabinet](#). Otherwise, go to [configure the switch](#).

# Install Cisco Nexus 9336C-FX2 and 9336C-FX2-T switches in a NetApp cabinet

Depending on your configuration, you might need to install the Cisco Nexus 9336C-FX2 9336C-FX2-T switches and pass-through panel in a NetApp cabinet. Standard brackets are included with the switch.

## Before you begin

Make sure you have the following:

- For each switch, you must supply the eight 10-32 or 12-24 screws and clip nuts to mount the brackets and slider rails to the front and rear cabinet posts.
- You must use the Cisco standard rail kit to install the switch in a NetApp cabinet.



The jumper cords are not included with the pass-through kit and should be included with your switches. If they were not shipped with the switches, you can order them from NetApp (part number X1558A-R6).

## Required documentation

Review the initial preparation requirements, kit contents, and safety precautions in the [Cisco Nexus 9000 Series Hardware Installation Guide](#).

## Steps

1. Install the pass-through blanking panel in the NetApp cabinet.

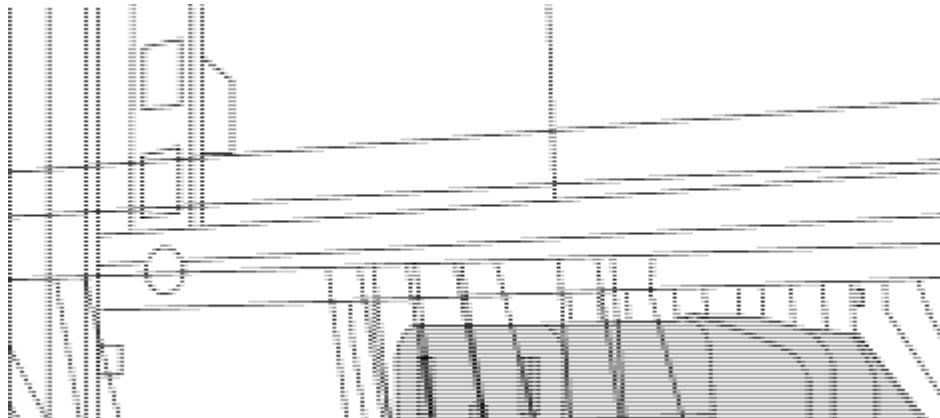
The pass-through panel kit is available from NetApp (part number X8784-R6).

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
  - a. Determine the vertical location of the switches and blanking panel in the cabinet.

In this procedure, the blanking panel will be installed in U40.

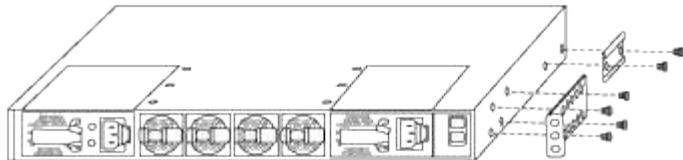
- b. Install two clip nuts on each side in the appropriate square holes for front cabinet rails.
- c. Center the panel vertically to prevent intrusion into adjacent rack space, and then tighten the screws.
- d. Insert the female connectors of both 48-inch jumper cords from the rear of the panel and through the brush assembly.



*(1) Female connector of the jumper cord.*

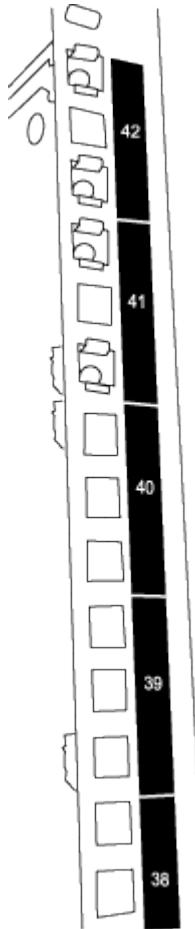
2. Install the rack-mount brackets on the Nexus 9336C-FX2 switch chassis.

- 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.



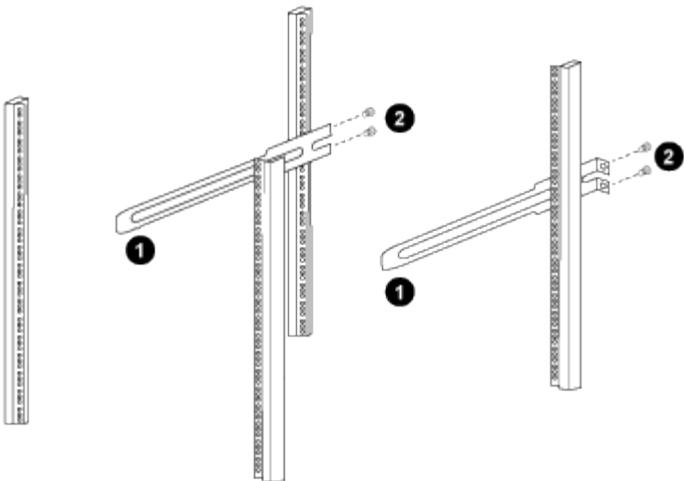
- b. Repeat step 2a with the other front rack-mount bracket on the other side of the switch.
- c. Install the rear rack-mount bracket on the switch chassis.
- d. Repeat step 2c with the other rear rack-mount bracket on the other side of the switch.

3. Install the clip nuts in the square hole locations for all four IEA posts.



The two 9336C-FX2 switches will always be mounted in the top 2U of the cabinet RU41 and 42.

4. Install the slider rails in the cabinet.
  - a. Position the first slider rail at the RU42 mark 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.

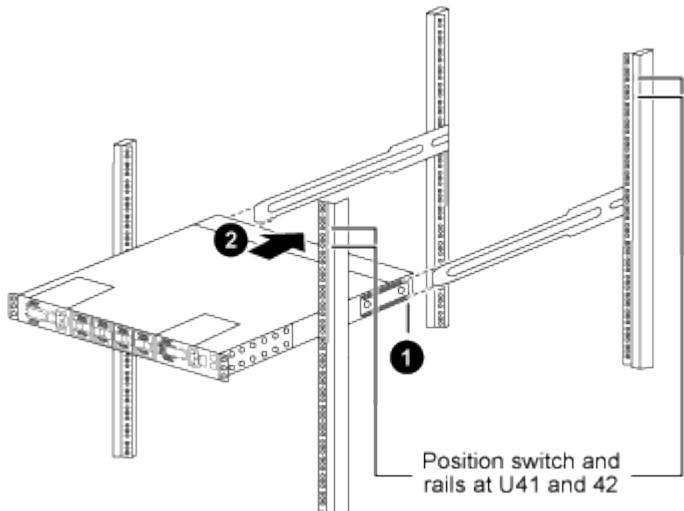
- b. Repeat step 4a for the right side rear post.
- c. Repeat steps 4a and 4b at the RU41 locations on the cabinet.

5. Install the switch in the cabinet.



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.

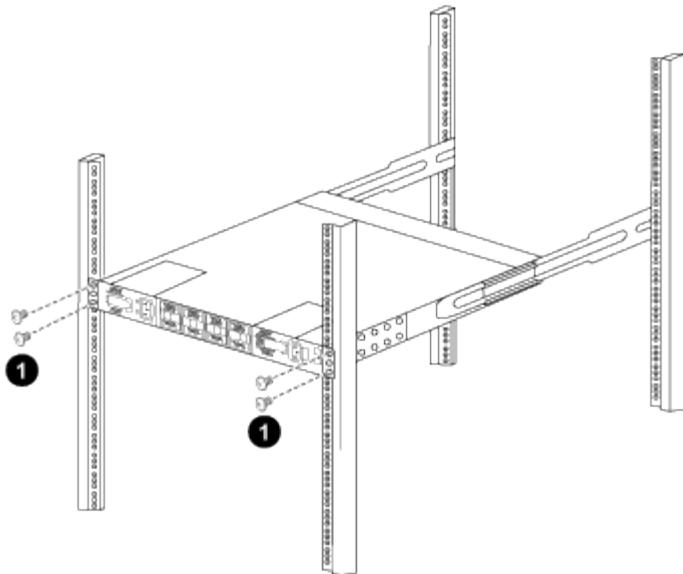
- a. Position the back of the switch at RU41.



(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.



*(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 RU42 location.



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 9336C-FX2 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.

## What's next

After you've installed the switches in the NetApp cabinet, you can [configure the Cisco Nexus 9336C-FX2 and 9336C-FX2-T switches](#).

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