



Install hardware

Cluster and storage switches

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Install hardware

Complete Cisco Nexus 92300YC 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.

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 | 10/25 GbE node | 1 | 10/25 GbE node |
| 2 | 10/25 GbE node | 2 | 10/25 GbE node |
| 3 | 10/25 GbE node | 3 | 10/25 GbE node |
| 4 | 10/25 GbE node | 4 | 10/25 GbE node |
| 5 | 10/25 GbE node | 5 | 10/25 GbE node |
| 6 | 10/25 GbE node | 6 | 10/25 GbE node |
| 7 | 10/25 GbE node | 7 | 10/25 GbE node |
| 8 | 10/25 GbE node | 8 | 10/25 GbE node |
| 9 | 10/25 GbE node | 9 | 10/25 GbE node |
| 10 | 10/25 GbE node | 10 | 10/25 GbE node |
| 11 | 10/25 GbE node | 11 | 10/25 GbE node |
| 12 | 10/25 GbE node | 12 | 10/25 GbE node |
| 13 | 10/25 GbE node | 13 | 10/25 GbE node |
| 14 | 10/25 GbE node | 14 | 10/25 GbE node |

| Cluster switch A | | Cluster switch B | |
|------------------|----------------|------------------|----------------|
| 15 | 10/25 GbE node | 15 | 10/25 GbE node |
| 16 | 10/25 GbE node | 16 | 10/25 GbE node |
| 17 | 10/25 GbE node | 17 | 10/25 GbE node |
| 18 | 10/25 GbE node | 18 | 10/25 GbE node |
| 19 | 10/25 GbE node | 19 | 10/25 GbE node |
| 20 | 10/25 GbE node | 20 | 10/25 GbE node |
| 21 | 10/25 GbE node | 21 | 10/25 GbE node |
| 22 | 10/25 GbE node | 22 | 10/25 GbE node |
| 23 | 10/25 GbE node | 23 | 10/25 GbE node |
| 24 | 10/25 GbE node | 24 | 10/25 GbE node |
| 25 | 10/25 GbE node | 25 | 10/25 GbE node |
| 26 | 10/25 GbE node | 26 | 10/25 GbE node |
| 27 | 10/25 GbE node | 27 | 10/25 GbE node |
| 28 | 10/25 GbE node | 28 | 10/25 GbE node |
| 29 | 10/25 GbE node | 29 | 10/25 GbE node |
| 30 | 10/25 GbE node | 30 | 10/25 GbE node |
| 31 | 10/25 GbE node | 31 | 10/25 GbE node |
| 32 | 10/25 GbE node | 32 | 10/25 GbE node |
| 33 | 10/25 GbE node | 33 | 10/25 GbE node |
| 34 | 10/25 GbE node | 34 | 10/25 GbE node |
| 35 | 10/25 GbE node | 35 | 10/25 GbE node |
| 36 | 10/25 GbE node | 36 | 10/25 GbE node |

| Cluster switch A | | Cluster switch B | |
|------------------|-----------------|------------------|-----------------|
| 37 | 10/25 GbE node | 37 | 10/25 GbE node |
| 38 | 10/25 GbE node | 38 | 10/25 GbE node |
| 39 | 10/25 GbE node | 39 | 10/25 GbE node |
| 40 | 10/25 GbE node | 40 | 10/25 GbE node |
| 41 | 10/25 GbE node | 41 | 10/25 GbE node |
| 42 | 10/25 GbE node | 42 | 10/25 GbE node |
| 43 | 10/25 GbE node | 43 | 10/25 GbE node |
| 44 | 10/25 GbE node | 44 | 10/25 GbE node |
| 45 | 10/25 GbE node | 45 | 10/25 GbE node |
| 46 | 10/25 GbE node | 46 | 10/25 GbE node |
| 47 | 10/25 GbE node | 47 | 10/25 GbE node |
| 48 | 10/25 GbE node | 48 | 10/25 GbE node |
| 49 | 40/100 GbE node | 49 | 40/100 GbE node |
| 50 | 40/100 GbE node | 50 | 40/100 GbE node |
| 51 | 40/100 GbE node | 51 | 40/100 GbE node |
| 52 | 40/100 GbE node | 52 | 40/100 GbE node |
| 53 | 40/100 GbE node | 53 | 40/100 GbE node |
| 54 | 40/100 GbE node | 54 | 40/100 GbE node |
| 55 | 40/100 GbE node | 55 | 40/100 GbE node |
| 56 | 40/100 GbE node | 56 | 40/100 GbE node |
| 57 | 40/100 GbE node | 57 | 40/100 GbE node |
| 58 | 40/100 GbE node | 58 | 40/100 GbE node |

| Cluster switch A | | Cluster switch B | |
|------------------|---------------------------------|------------------|---------------------------------|
| 59 | 40/100 GbE node | 59 | 40/100 GbE node |
| 60 | 40/100 GbE node | 60 | 40/100 GbE node |
| 61 | 40/100 GbE node | 61 | 40/100 GbE node |
| 62 | 40/100 GbE node | 62 | 40/100 GbE node |
| 63 | 40/100 GbE node | 63 | 40/100 GbE node |
| 64 | 40/100 GbE node | 64 | 40/100 GbE node |
| 65 | 100 GbE ISL to switch B port 65 | 65 | 100 GbE ISL to switch A port 65 |
| 66 | 100 GbE ISL to switch B port 66 | 66 | 100 GbE ISL to switch A port 65 |

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 | |
|------------------|-----------------|------------------|-----------------|
| Switch port | Node/port usage | Switch port | Node/port usage |
| 1 | | 1 | |
| 2 | | 2 | |
| 3 | | 3 | |
| 4 | | 4 | |
| 5 | | 5 | |
| 6 | | 6 | |
| 7 | | 7 | |
| 8 | | 8 | |
| 9 | | 9 | |

| Cluster switch A | | Cluster switch B | |
|------------------|--|------------------|--|
| 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 | |
| 27 | | 27 | |
| 28 | | 28 | |
| 29 | | 29 | |
| 30 | | 30 | |
| 31 | | 31 | |

| Cluster switch A | | Cluster switch B | |
|------------------|--|------------------|--|
| 32 | | 32 | |
| 33 | | 33 | |
| 34 | | 34 | |
| 35 | | 35 | |
| 36 | | 36 | |
| 37 | | 37 | |
| 38 | | 38 | |
| 39 | | 39 | |
| 40 | | 40 | |
| 41 | | 41 | |
| 42 | | 42 | |
| 43 | | 43 | |
| 44 | | 44 | |
| 45 | | 45 | |
| 46 | | 46 | |
| 47 | | 47 | |
| 48 | | 48 | |
| 49 | | 49 | |
| 50 | | 50 | |
| 51 | | 51 | |
| 52 | | 52 | |
| 53 | | 53 | |

| Cluster switch A | | Cluster switch B | |
|------------------|-------------------------|------------------|-------------------------|
| 54 | | 54 | |
| 55 | | 55 | |
| 56 | | 56 | |
| 57 | | 57 | |
| 58 | | 58 | |
| 59 | | 59 | |
| 60 | | 60 | |
| 61 | | 61 | |
| 62 | | 62 | |
| 63 | | 63 | |
| 64 | | 64 | |
| 65 | ISL to switch B port 65 | 65 | ISL to switch A port 65 |
| 66 | ISL to switch B port 66 | 66 | ISL to switch A port 66 |

Configure the Cisco Nexus 92300YC switch

Follow this procedure to set up and configure the Cisco Nexus 92300YC switch.

Steps

1. Connect the serial port to a host or serial port.
2. Connect the management port (on the non-port side of the switch) to the same network where your SFTP server is located.
3. At the console, set the host side serial settings:
 - 9600 baud
 - 8 data bits
 - 1 stop bit
 - parity: none
 - flow control: none
4. When booting for the first time or rebooting after erasing the running configuration, the Nexus 92300YC switch loops in a boot cycle. Interrupt this cycle by typing **yes** to abort Power on Auto Provisioning.

The System Admin Account setup is displayed.

Show example

```
$ VDC-1 %$ %POAP-2-POAP_INFO:   - Abort Power On Auto Provisioning
[yes - continue with normal setup, skip - bypass password and basic
configuration, no - continue with Power On Auto Provisioning]
(yes/skip/no) [no]: y
Disabling POAP.....Disabling POAP
2019 Apr 10 00:36:17 switch %$ VDC-1 %$ poap: Rolling back, please
wait... (This may take 5-15 minutes)

      ---- System Admin Account Setup ----

Do you want to enforce secure password standard (yes/no) [y]:
```

5. Type **y** to enforce secure password standard:

```
Do you want to enforce secure password standard (yes/no) [y]: y
```

6. Enter and confirm the password for user admin:

```
Enter the password for "admin":
Confirm the password for "admin":
```

7. Type **yes** to enter the Basic System Configuration dialog.

Show example

This setup utility will guide you through the basic configuration of the system. Setup configures only enough connectivity for management of the system.

Please register Cisco Nexus9000 Family devices promptly with your supplier. Failure to register may affect response times for initial service calls. Nexus9000 devices must be registered to receive entitled support services.

Press Enter at anytime to skip a dialog. Use ctrl-c at anytime to skip the remaining dialogs.

Would you like to enter the basic configuration dialog (yes/no):

8. Create another login account:

Create another login account (yes/no) [n]:

9. Configure read-only and read-write SNMP community strings:

Configure read-only SNMP community string (yes/no) [n]:

Configure read-write SNMP community string (yes/no) [n]:

10. Configure the cluster switch name:

Enter the switch name : **cs2**

11. Configure the out-of-band management interface:

```
Continue with Out-of-band (mgmt0) management configuration? (yes/no)
[y]: y

Mgmt0 IPv4 address : 172.22.133.216

Mgmt0 IPv4 netmask : 255.255.224.0

Configure the default gateway? (yes/no) [y]: y

IPv4 address of the default gateway : 172.22.128.1
```

12. Configure advanced IP options:

```
Configure advanced IP options? (yes/no) [n]: n
```

13. Configure Telnet services:

```
Enable the telnet service? (yes/no) [n]: n
```

14. Configure SSH services and SSH keys:

```
Enable the ssh service? (yes/no) [y]: y

Type of ssh key you would like to generate (dsa/rsa) [rsa]: rsa

Number of rsa key bits <1024-2048> [1024]: 2048
```

15. Configure other settings:

```
Configure the ntp server? (yes/no) [n]: n

Configure default interface layer (L3/L2) [L2]: L2

Configure default switchport interface state (shut/noshut) [noshut]:
noshut

Configure CoPP system profile (strict/moderate/lenient/dense)
[strict]: strict
```

16. Confirm switch information and save the configuration:

```
Would you like to edit the configuration? (yes/no) [n]: n
```

```
Use this configuration and save it? (yes/no) [y]: y
```

```
[ ] 100%
```

```
Copy complete, now saving to disk (please wait)...
```

```
Copy complete.
```

What's next?

[Prepare to install NX-OS software and RCF.](#)

Review cabling and configuration considerations

Before configuring your Cisco 92300YC switch, review the following considerations.

Support for NVIDIA CX6, CX6-DX, and CX7 Ethernet ports

If connecting a switch port to an ONTAP controller using NVIDIA ConnectX-6 (CX6), ConnectX-6 Dx (CX6-DX), or ConnectX-7 (CX7) NIC ports, you must hard-code the switch port speed.

```
(cs1)(config)# interface Ethernet1/19
For 100GbE speed:
(cs1)(config-if)# speed 100000
For 40GbE speed:
(cs1)(config-if)# speed 40000
(cs1)(config-if)# no negotiate auto
(cs1)(config-if)# exit
(cs1)(config)# exit
Save the changes:
(cs1)# copy running-config startup-config
```

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

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