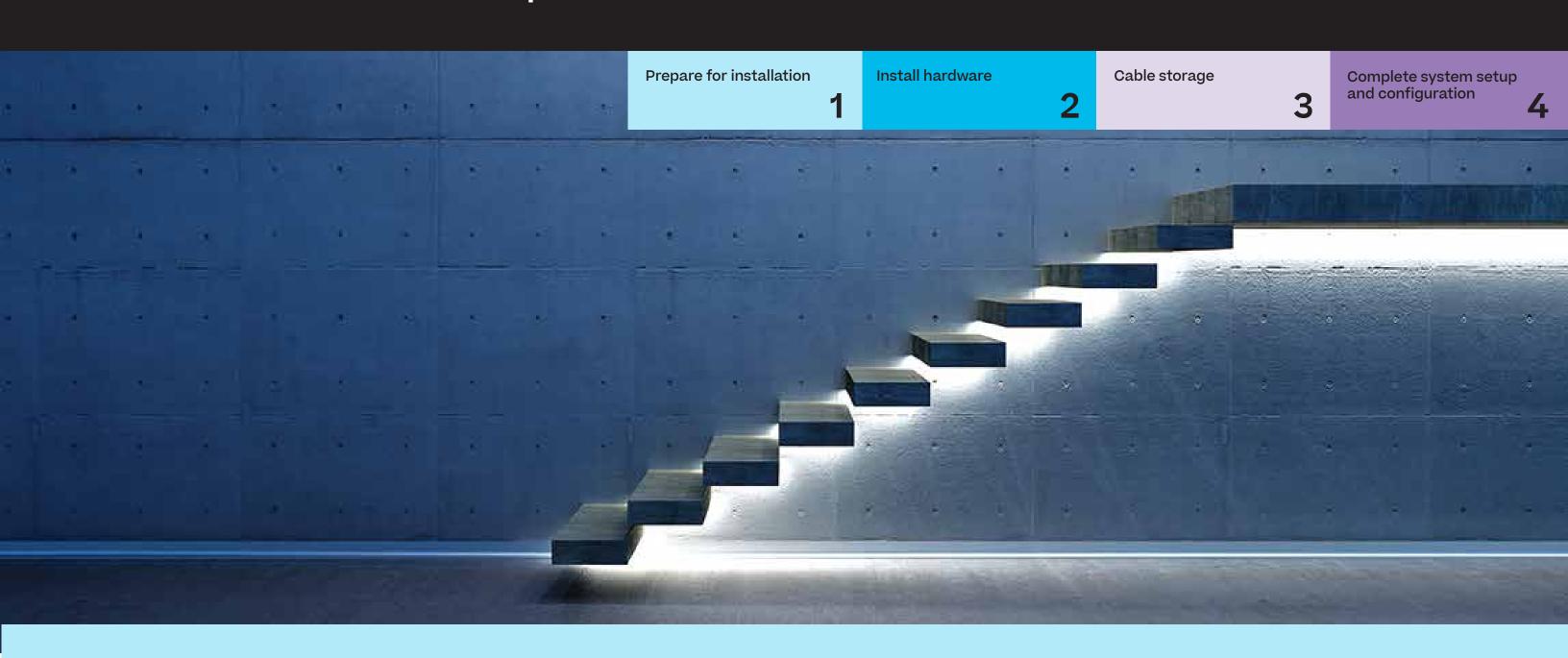


# AFF A900 Systems Installation and Setup Instructions



## Prepare for installation | Stage 1



Pre-setup

- 1. Unpack all boxes and inventory contents. Attention: Customers with specific power requirements must check <u>Hardware Universe</u> for their configuration options.
- 2. Watch the Setup Videos.
- 3. Review the NetApp ONTAP Configuration Guide.



### Contents In the box

Cables in your shipment are order-dependent. Not all cables shown may be in your shipment.

Note: For more cable information and part numbers, see the <u>Hardware Universe</u>.

#### 25 GbE data cable **Network cable**



### Part numbers:

X66240A-05 (112-00639), 0.5m X66240A-2 (112-00598), 2m X66240A-5 (112-00600), 5m

#### 40 GbE network cable Ethernet data, cluster network



Part numbers:

X66100-1 (112-00542), 1m X66100-3 (112-00543), 3m X66100-5 (112-00544), 5m

### 32 Gb FC (SFP+ Op) FC optical network cable

Part numbers:

X66250-2 (112-00342), 2m X66250-5 (112-00344), 5m X66250-15 (112-00346), 15m

#### Optical network cable **Ethernet, FC optical connections**



Part number X6553-R6 (112-00188), 2m X6554-R6 (112-00189), 15m

### 100 GbE network cable **NVMe** storage, Ethernet data,

cluster network



Part numbers:

X66211A-05 (112-00595), 0.5m X66211B-1 (112-00573), 1m X66211B-2 (112-00574), 2m X66211B-5 (112-00576), 5m

### **Additional cables**



**Ethernet cables** Power cables

### Slide rail kit



### **Cable management arms**





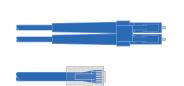
You provide



Rack space 8U per chassis



**Screwdriver** Phillips #2



### Additional network cables

For connecting your storage system to your network switch and laptop or console.



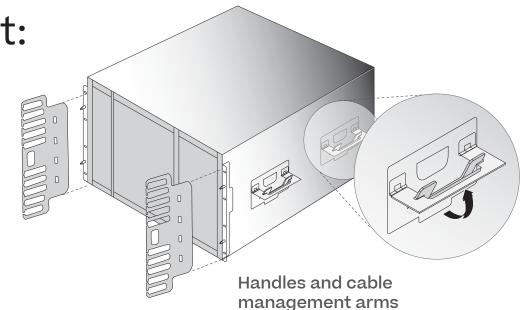
### Laptop or console

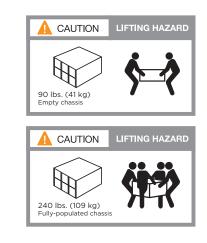
With a USB/serial connection and access to a Web browser to configure your storage system

## Install hardware | Stage 2

### Install system in a rack or cabinet:

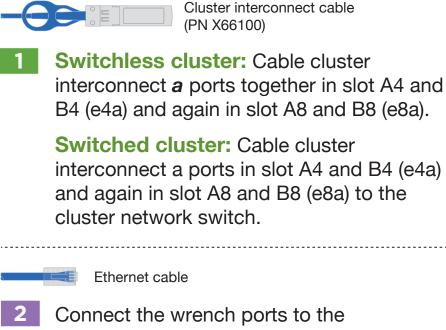
- Install rail kits, as needed, using the rail kit installation instructions.
- Install the empty chassis into the system cabinet or rack.
- Reinstall the system components into the chassis, matching the chassis slot ID with the slot ID sticker on the component.
- Attach cable management arms.
- Place the bezel on the front of the system.





### Cable controller for a switchless or switched cluster:

See your network administrator for help connecting to your switches.

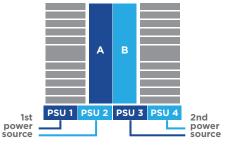


- management switches.
- 25 GbE network cable (PN X66240A) Cable ports in slot A3 and B3 (e3a and e3c)
- and slot A9 and B9 (e9a and e9c) to the 25 GbE network switches.

40 GbE network cable (PN X66100)

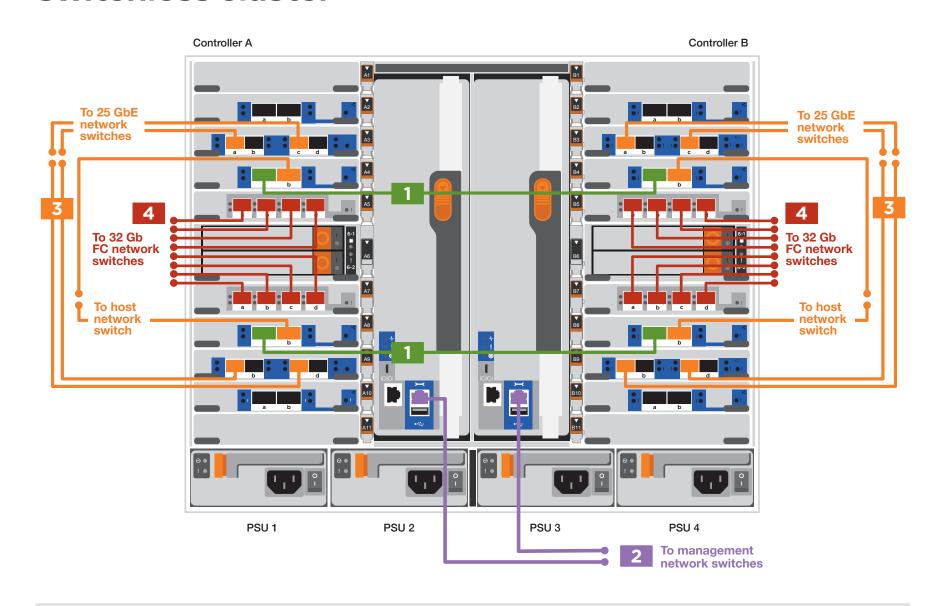
- Cable host-side **b** ports in slot A4 and B4 (e4b) and slot A8 and B8 (e8b) to the host switch.
- 32 Gb FC (SFP+ Op) (PN X66250)
- Cable ports in slot A5 and B5 (5a, 5b, 5c, and 5d) and slot A7 and B7 (7a, 7b, 7c, and 7d) to the 32 Gb FC network switches.
- Strap the cables to the cable management arms (not shown).
- Power cable
- Connect the power cables to the PSUs and connect them to different power sources (not shown).

PSU 1 and PSU 3 provide power to all side A FRUs, PSU 2 and PSU 4 provide power to all side B FRUs.

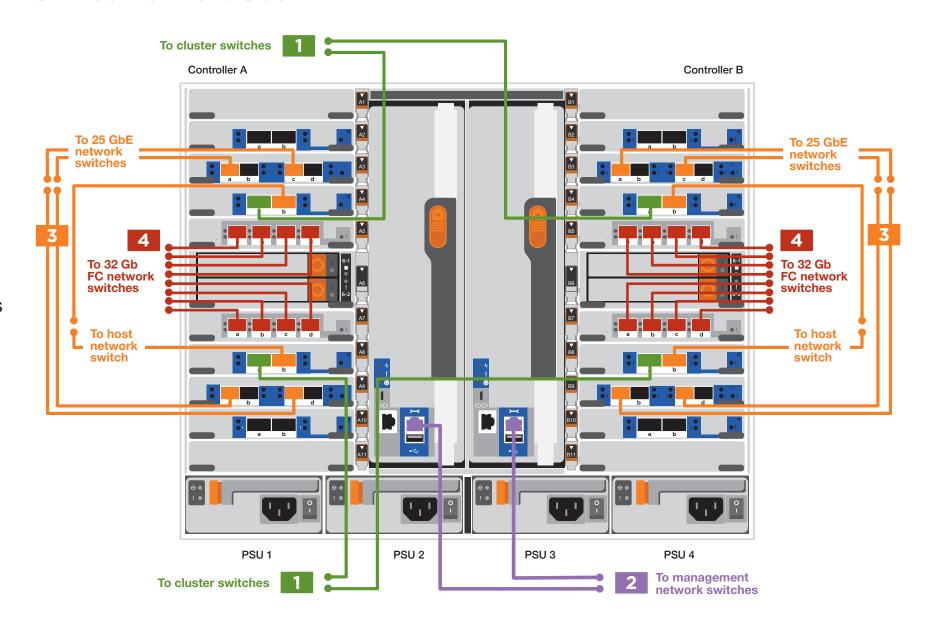


**DO NOT power on** controllers at this point.

### Switchless cluster



### Switched cluster



## Cable storage | Stage 3

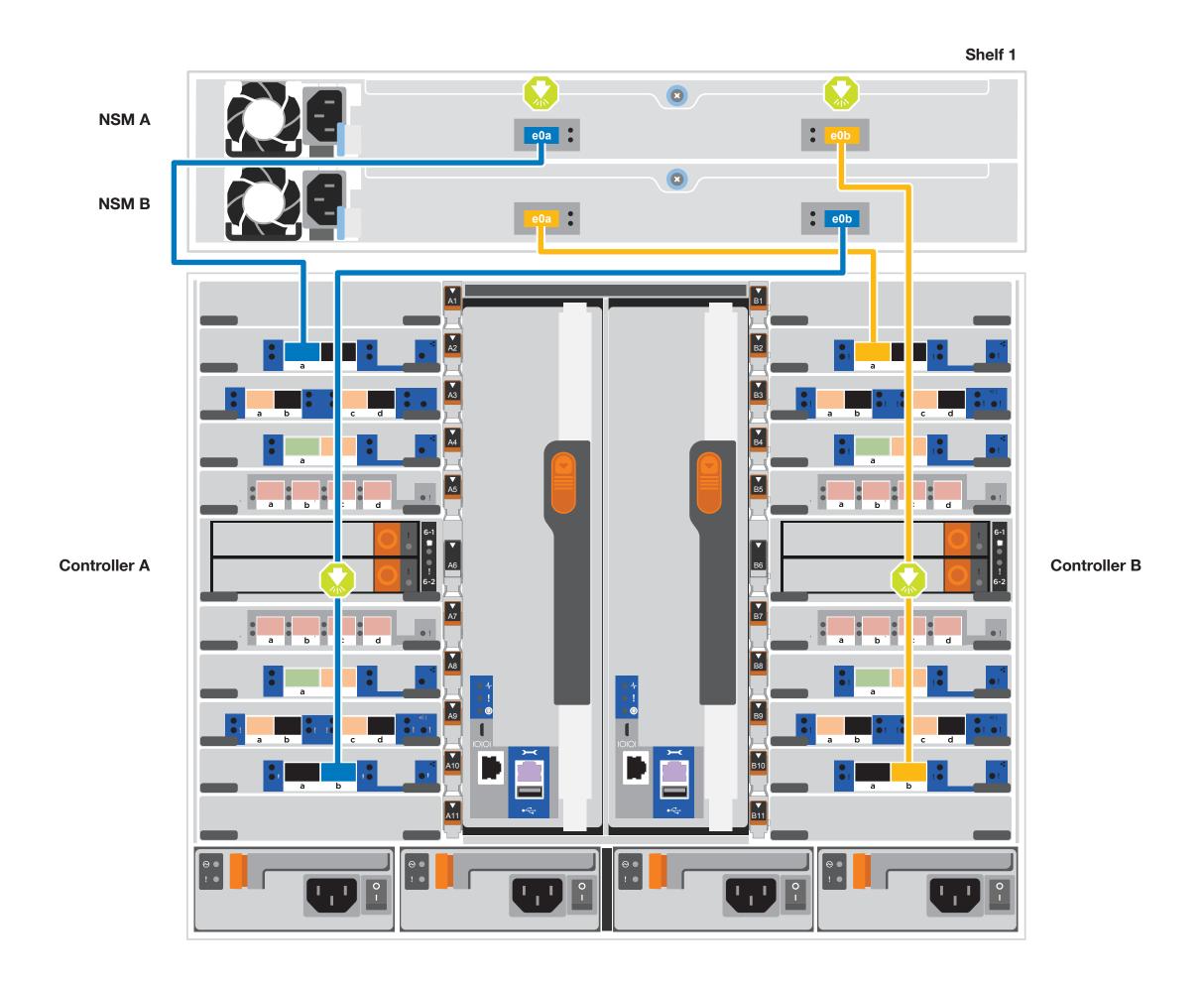
## Cabling an AFF A900 with one NS224 disk shelf



- Insert 100 GbE QSFP28 cable tab DOWN and gently push into place until it clicks.
- Connect controller A port e2a to port e0a on NSM A on the shelf.

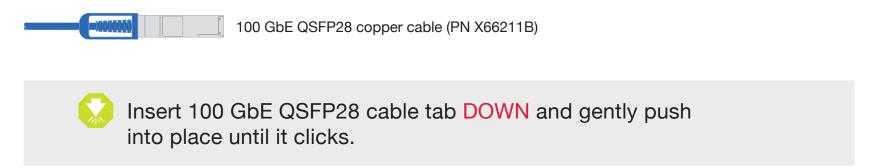
  Connect controller A port e10b to port e0b on NSM B on the shelf.
- Connect controller B port e2a to port e0a on NSM B on the shelf.

  Connect controller B port e10b to port e0b on NSM A on the shelf.

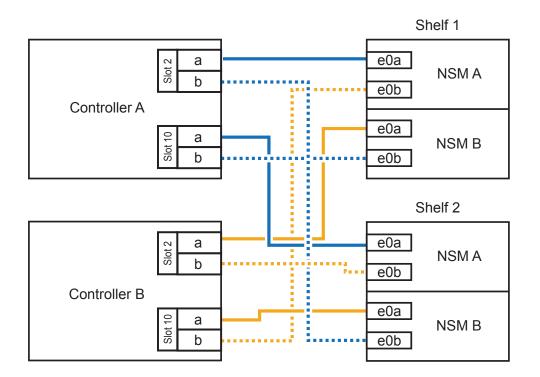


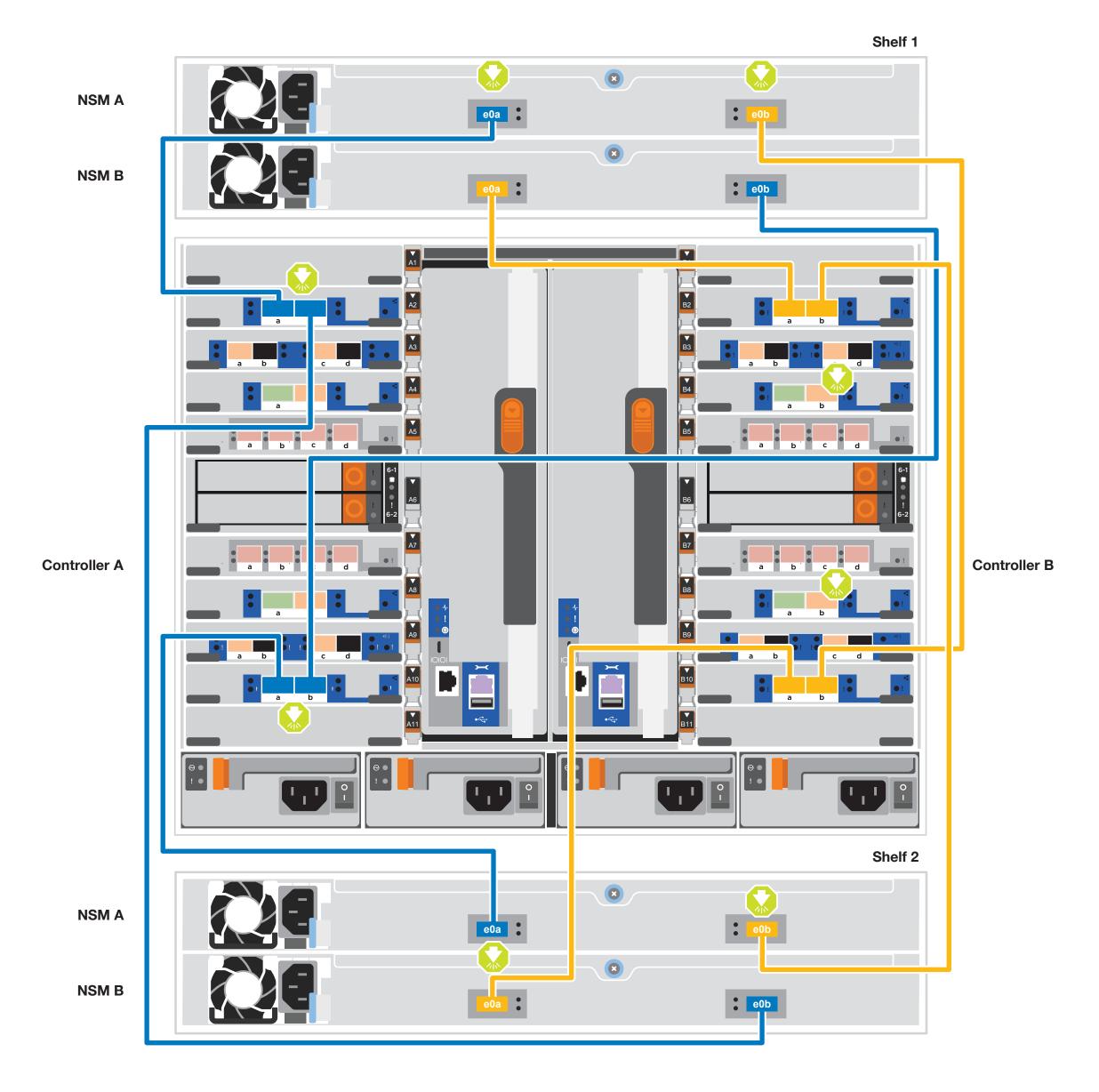
## Cable storage | Stage 3 cont.

### Cabling an AFF A900 with two NS224 disk shelves



Use the table to the right to connect your controllers to the two NS224 shelves.





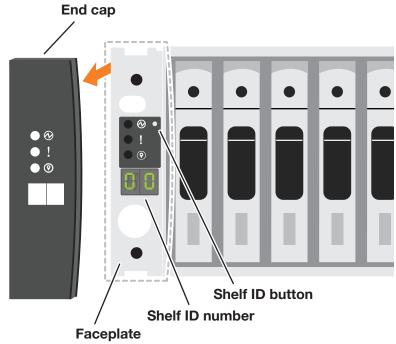
## Complete system setup and configuration | Stage 4

### 1 Power on the shelves and set shelf IDs:

**Note:** For NS224 drive shelves, shelf IDs are pre-set to 00 and 01. If you want to change the shelf IDs, use the straightened end of a paperclip, or narrow tipped ball point pen to access the shelf ID button behind the faceplate.

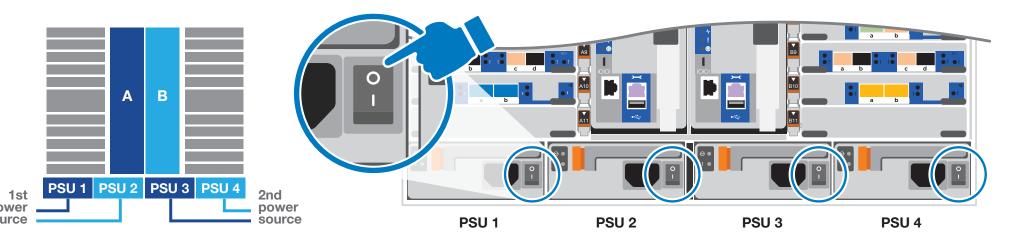
- 1. Plug the power cords into the shelf power supplies, and then connect them to power sources on different circuits.

  Note: NS224 shelves have no power switch and will begin to boot.
- 2. If you need to change the shelf ID's, see Change a shelf ID - NS224 shelves for detailed instructions.



# 2 Turn on the power switches to all nodes:

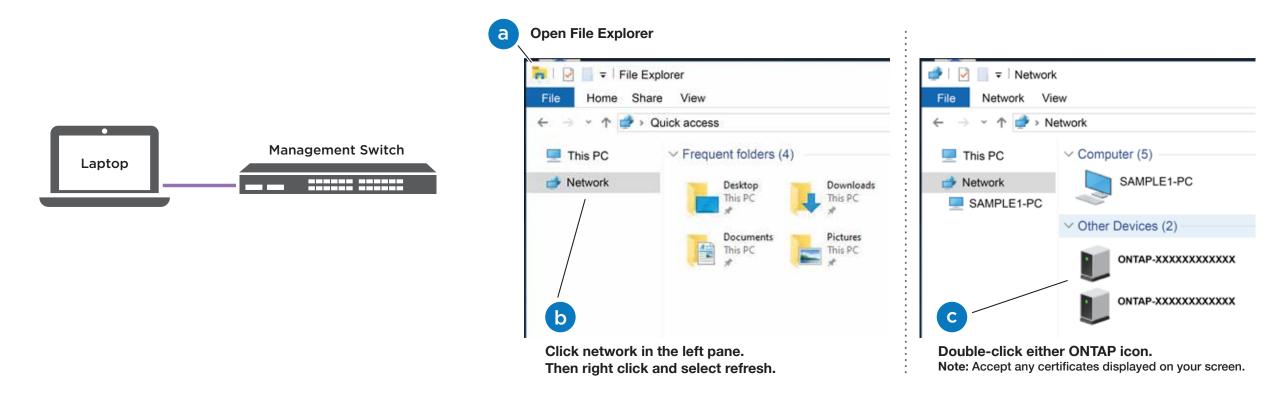
PSU 1 and PSU 3 provide power to all side A FRUs, PSU 2 and PSU 4 provide power to all side B FRUs.



### 3 Complete initial cluster setup with network discovery:

Note: If your laptop does not support network discovery, see the <u>Detailed guide</u>.

Connect your laptop to the management switch and access the network computers and devices.



- 4 Use System Manager Guided Setup to configure your cluster.
- 5 Completing setup:
  - 1. Click...
    - a) mysupport.netapp.com b) Create/log in to your account c) Register your system
  - 2. Download and install Active IQ Config Advisor. Verify the health of your system by running Config Advisor.
  - 3. After you have completed the initial configuration, go to the <u>NetApp ONTAP Resources</u> page for information about configuring additional features in ONTAP.