

# Prepare and install | 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. Gather information about your storage system by completing the cluster setup worksheets: Get started with ONTAP cluster set up.
- 3. Review the requirements and procedure steps for Configure ONTAP on a new cluster with System Manager. **Note:** For MetroCluster configurations, use the MetroCluster installation content.



#### Contents In the box

Cables shown are the most common. See <u>Hardware Universe</u> for more options.



#### 25 GbE cable (SFP28) **HA** interconnect

Part numbers X66240-2, 2m; X66240-5, 5m



**RJ-45** cables Wrench port (e0M/BMC) (order-dependent)

Part numbers X5585-R6, 3m; X6562-R6, 5m



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

Part numbers X66250-2, 2m; X66250-5, 5m; X66250-15, 15m



## 16 Gb FC or 25GbE cables

Mezzanine cards (SFPs pre-installed)

Part number X66250-2-N-C



## 100 GbE cable (QSFP28)

Storage, cluster network, **GbE** network, and Ethernet data (order-dependent)

Part numbers X66211A-05, 0.5m; X66211A-1, 1m; X66211A-2, 2m; X66211A-5.5m

Cable management tray

Slide rail kit

#### **Additional cables**

Ethernet cables



micro USB console cable



Power cables





You provide



#### Rack space

4U for platform +2U for each NS224 or DS224C shelf



Screwdriver Phillips #2



### Additional network cables

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



### Laptop or console

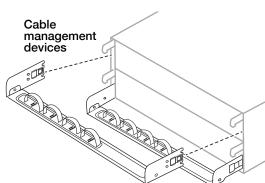
With a USB/serial connection and access to a Web browser to configure your storage system



Install storage system in a rack or cabinet

**Attention:** Airflow through the platform and shelves enters from the front where the bezel or end caps are installed and exhausts out the rear where the ports are located.

- 1. Install the rail kits for the platform and shelves, as needed, using the instructions included with the kits.
- 2. Install the platform chassis into the rack or cabinet.
- 3. Attach the cable management devices to the rear of the platform.
- 4. Install the bezel on the front of the platform.
- 5. Install any drive shelves into the rack or cabinet.

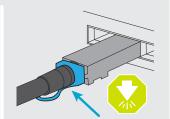




# Cable controllers | Stage 2

**Attention:** Be sure to check the illustration arrow for the proper cable connector pull-tab orientation. **Note:** To unplug a cable, gently pull the tab to release the locking mechanism.

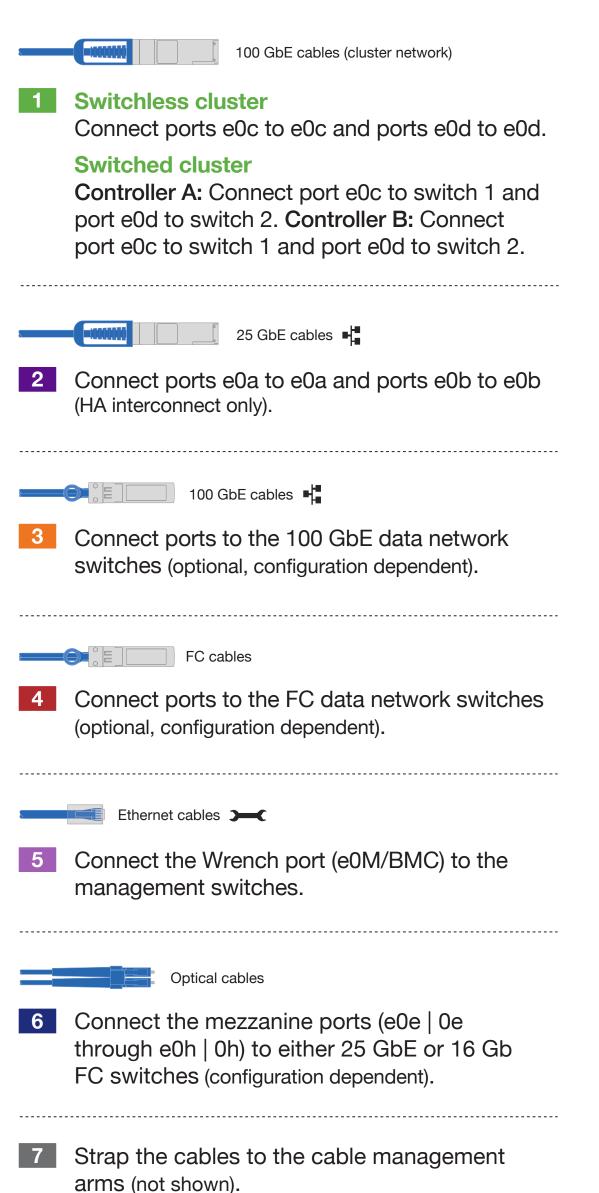




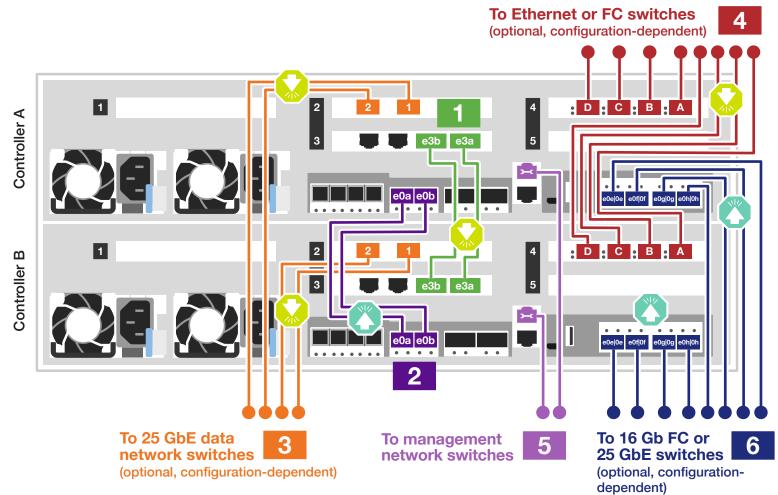
## 1 Cable the controllers for a switchless or switched cluster

See your network administrator for help connecting to your switches.

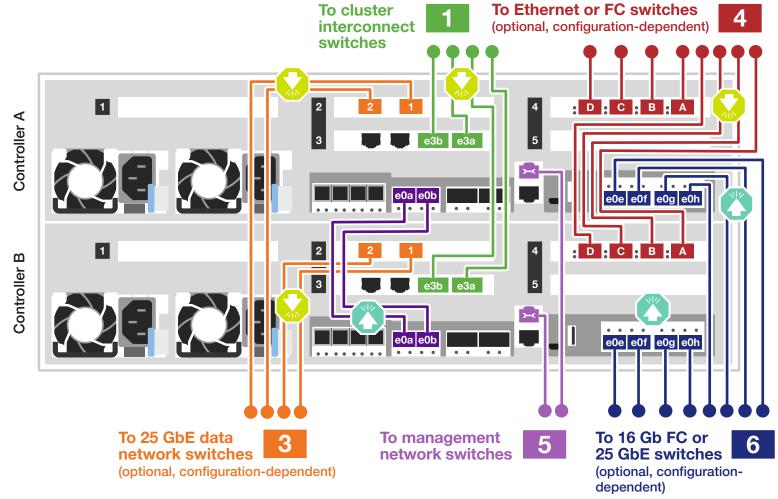
**Note:** If the port labels on the card are not visible, check the card installation orientation (the PCIe connector socket is on the left side of the card slot), and then look for the card, by part number, in the <u>Hardware Universe</u> for a graphic of the bezel which will show the port labels. The card part number can be found using the sysconfig -a command or on the system packing list.



## Switchless cluster



## Switched cluster

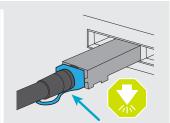


The storage system will boot as soon as the power cables are plugged into the power source and power supplies.

# Cable controllers | Stage 2

**Attention:** Be sure to check the illustration arrow for the proper cable connector pull-tab orientation. **Note:** To unplug a cable, gently pull the tab to release the locking mechanism.



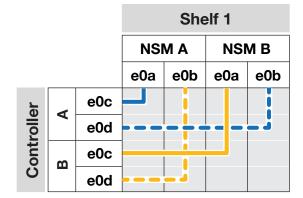


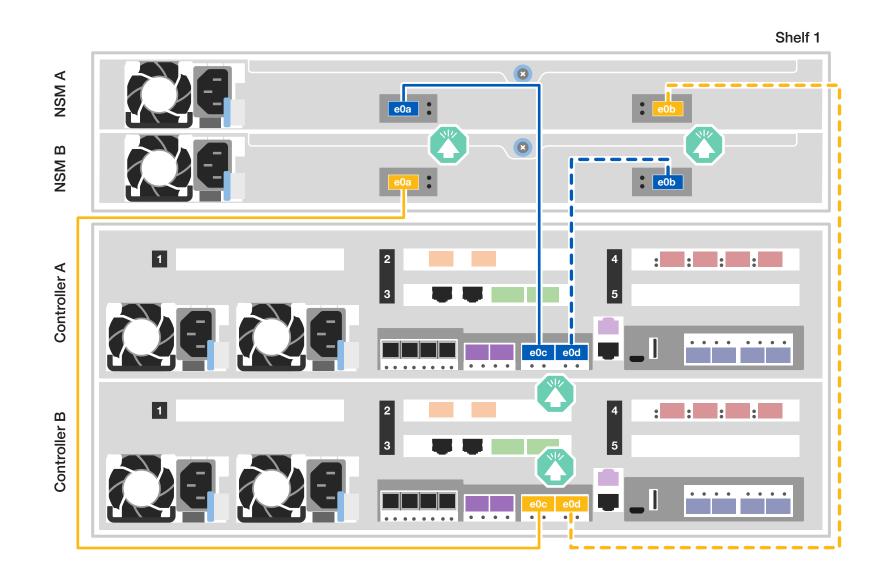
# 2 Cable storage

## Cable to one NS224 shelf



Use the table below to connect your controllers to the NS224 shelf.



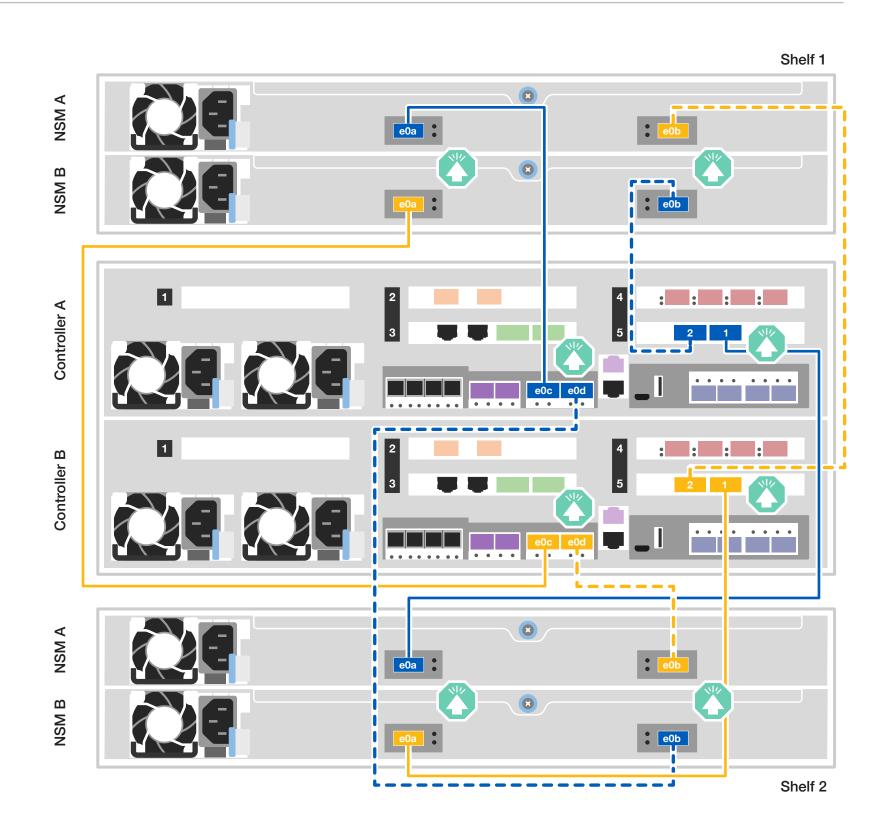


## Cable to two NS224 shelves



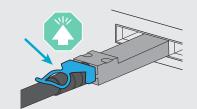
Use the table below to connect your controllers to the two NS224 shelves.

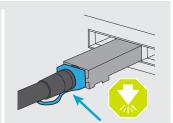
					She	elf 1		Shelf 2					
			NSM A		NSI	ΜВ	NSI	МА	NSM B				
				e0a	e0b	e0a	e0b	e0a	e0b	e0a	e0b		
	A	e0c											
		e0d			_								
Controller		t 5	Port 1										
		Slot	Port 2		_								
onti		e0c											
Ö	В	e0d			_								
		t 5	Port 1										
		Slot	Port 2										



# Cable controllers | Stage 2

**Attention:** Be sure to check the illustration arrow for the proper cable connector pull-tab orientation. **Note:** To unplug a cable, gently pull the tab to release the locking mechanism.





# 2 Cable storage, continued

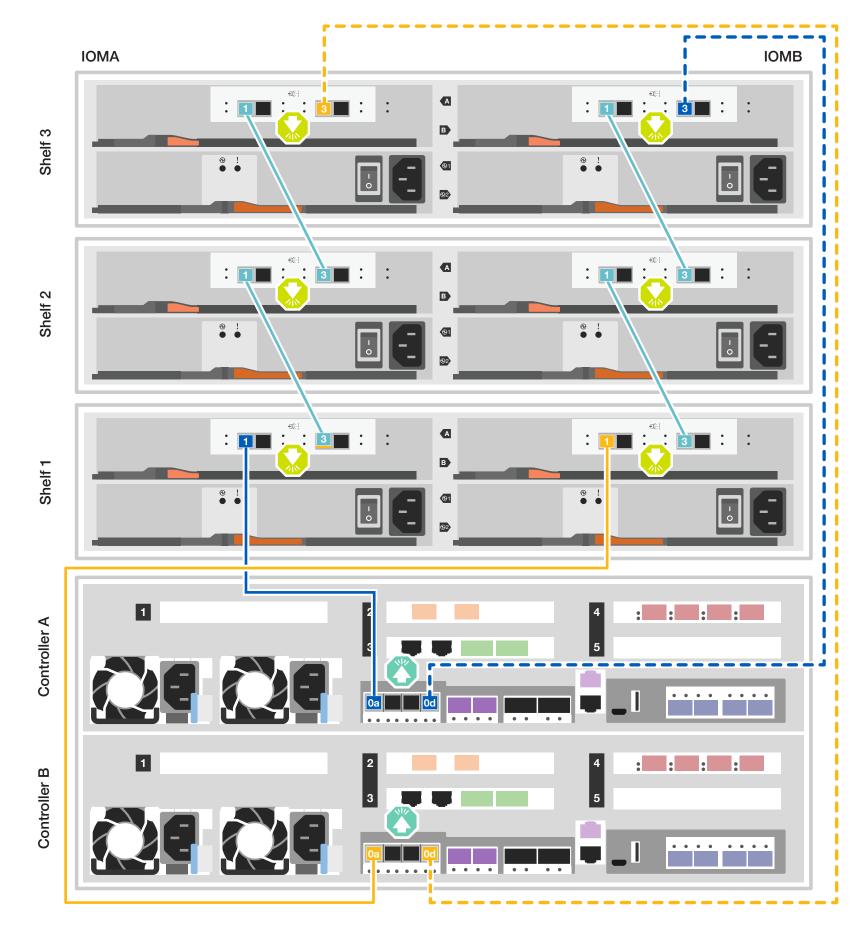
## Cable to three DS224C shelves



Use the tables below to connect your controllers to three DS224C shelves.

# Shelf 1 Shelf 2 Shelf 3 IOMA IOMB IOMA IOMB 1 3 1 3 1 3 1 3 1 3 1 3 1 3

			Sneit 1				Sneit 2				Sneit 3			
Shelf to controllers			IOMA		ІОМВ		IOMA		ЮМВ		IOMA		ЮМВ	
			1	3	1	3	1	3	1	3	1	3	1	3
Controller	4	0a												
		0d		-	-  -  -  -  -  -  -  -  -  -  -  -  -				-					
	<b>B</b>	0a												
		0d							-					

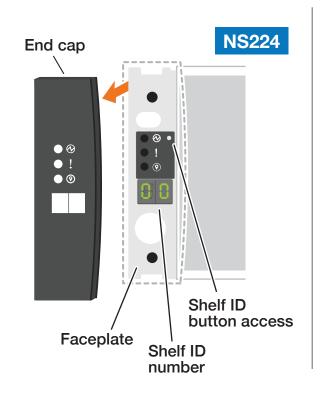


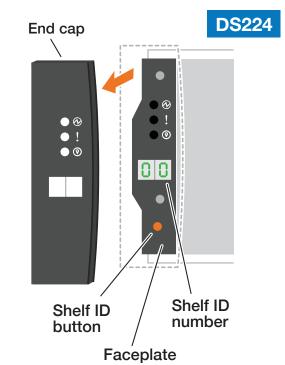
# Storage system bring-up | Stage 3

## 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 the detailed instructions for each shelf type.
  - Change a shelf ID NS224 shelves | Change a shelf ID DS224 shelves



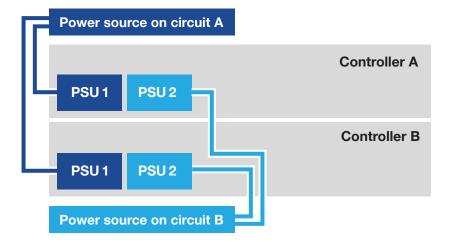


# 2 Connect the power cables



- 1. Connect the power cables to each controller's power supplies, and then to power sources on different circuits.
- 2. Secure the power cables using the securing device on each power supply.

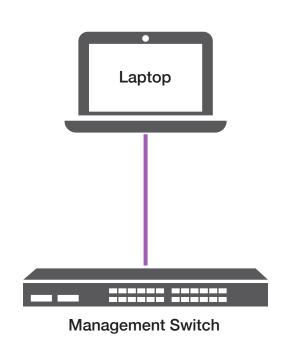
**Note:** The storage system powers on when plugged into the power sources.

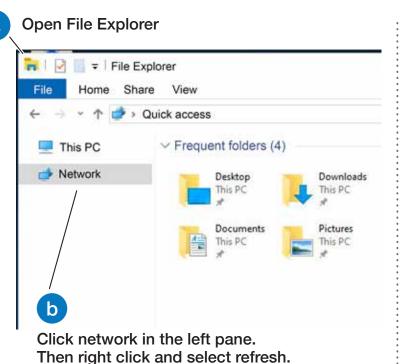


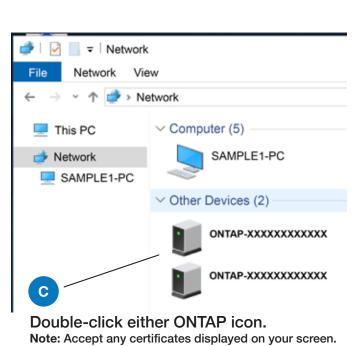
# 3 Complete the initial cluster setup with network discovery

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

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







4 Configure your cluster using the <u>Configure ONTAP on a new cluster</u> <u>with System Manager</u> procedure

# 5 Complete setup

- 1. Click...
  - a) mysupport.netapp.com b) Create/log in to your account c) Register your system
- 2. <u>Download and install Active IQ Config Advisor</u>, and then run it to verify the health of your storage system.
- 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.