AFF C190 Systems
Installation and Setup Instructions

❚❚ NetApp®

Prepare and install | Stage 1

Pre-setup

1. Unpack all boxes and inventory contents.
   Attention: Customers with specific power requirements must check Hardware Universe for their configuration options.
2. Gather information about your storage system by completing the cluster setup worksheets:
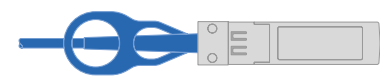   Get started with ONTAP cluster set up.
3. Review the requirements and procedure steps for Configure ONTAP on a new cluster with System Manager.

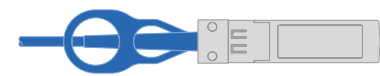**Note:** For MetroCluster configurations, use the MetroCluster installation content.

Contents in the box

Cables shown are the most common. See Hardware Universe for more options.

10 GbE network cable
Cluster interconnect cable (order dependent)
Part numbers X6566B-05-R6; X6566B-2-R6

10 GbE network cables (order dependent)
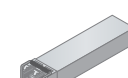Part numbers X6566B-2-R6; X6566B-3-R6; X6566B-5-R6

CAT6 RJ-45 cables (order dependent)
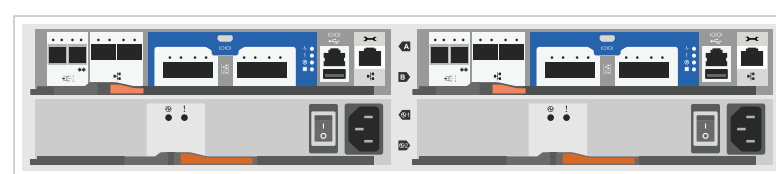Part numbers X6585-R6; X6562-R6
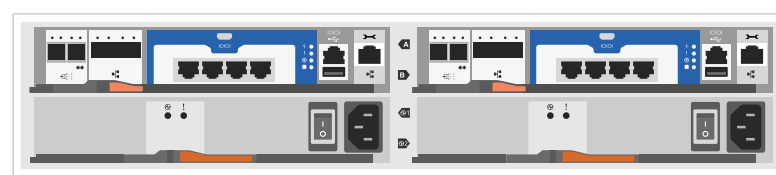
Optical network cables (order dependent)
Part numbers X6553-R6; X6554-R6; X6536-R6

SFP for optical cables (order dependent)

Unified configuration (order dependent)

Ethernet configuration (order dependent)

Slide rail kit

Cable management arms

Additional cables
- **Ethernet cables**
- **Power cables**
- **micro USB console cable**

You provide

✔ **Rack space**
2U for platform

✔ **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 enters from the front where the bezel or end caps are installed and exhausts out the rear where the ports are located.

1. Install rail kits for the platform and shelves, as needed, using 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.

⚠ CAUTION LIFTING HAZARD
≥ 25 kg (≥ 56 lbs.)

Cable management arms

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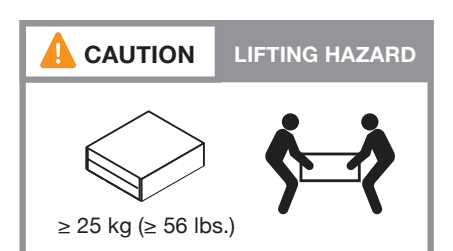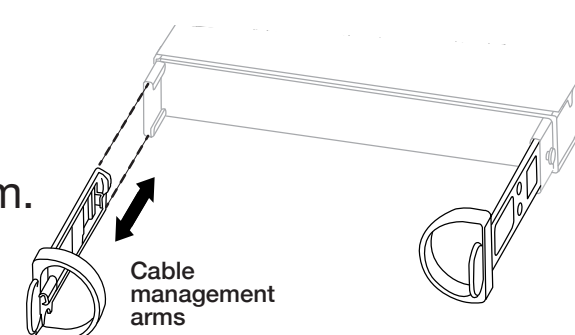
Cable controllers | Stage 2

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.
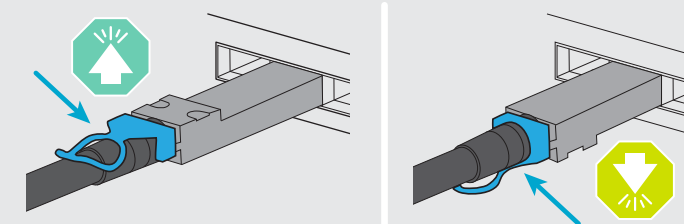
1 Cable the controllers for a switchless or switched cluster

See your network administrator for help connecting to your switches.
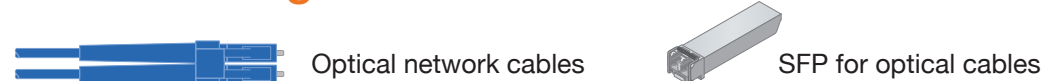
Cluster interconnect cable

1 Switchless cluster
Cable port e0a to port e0a and port e0b
to port e0b.

Switched cluster
Cable port e0a and port e0b on each
controller to the cluster interconnect switches.

2 Unified configuration

Optical network cables   SFP for optical cables

Insert the SFPs into ports e0c/0c and e0d/0d
OR ports e0e/0e and e0f/0f and cable them to
the optical Ethernet or FC switches.

10 GbE network cable

OR for 10 GbE switches use this cable.

Ethernet configuration

CAT6 RJ-45 cables
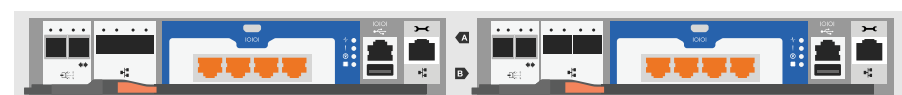
Cable ports e0c through e0f to the 10 GbE switches.

3 Ethernet cables

Connect the wrench port (e0M/BMC)
to the management switches.

4 Strap the cables to the cable management arms
(not shown).

Switchless cluster

1

Unified
configuration

2 To FC host network switches
or 10 GbE switches

3 To management
network switches

Switched cluster

To cluster interconnect
switches

1

Unified
configuration

2 To FC host network switches
or 10 GbE switches

3 To management
network switches
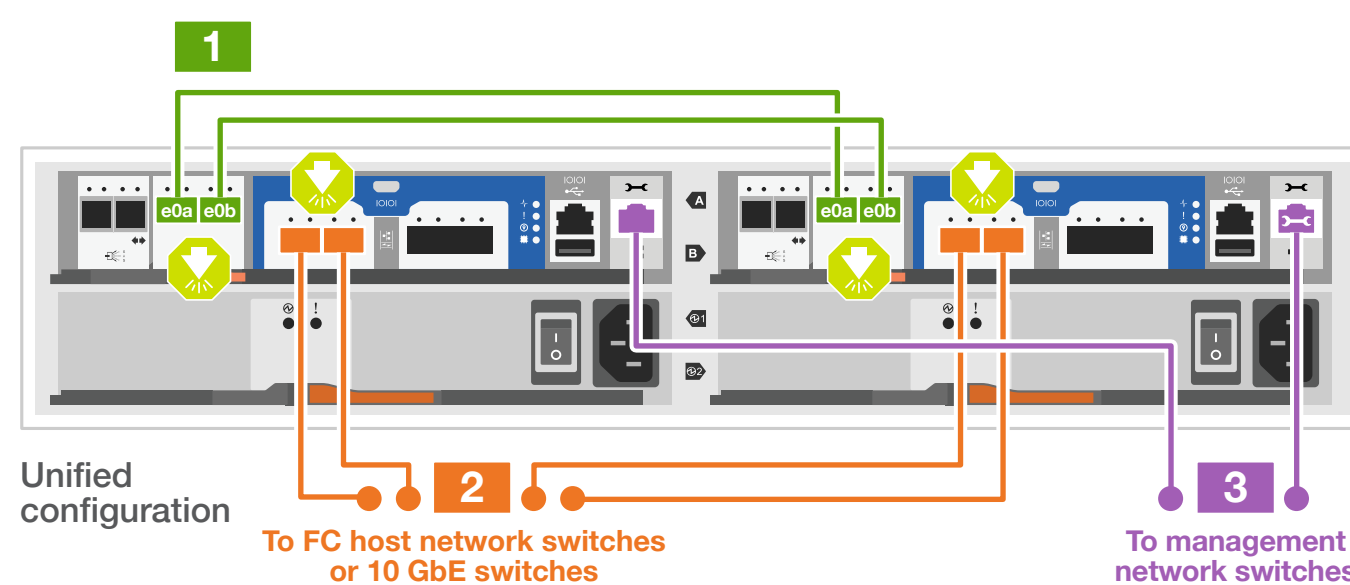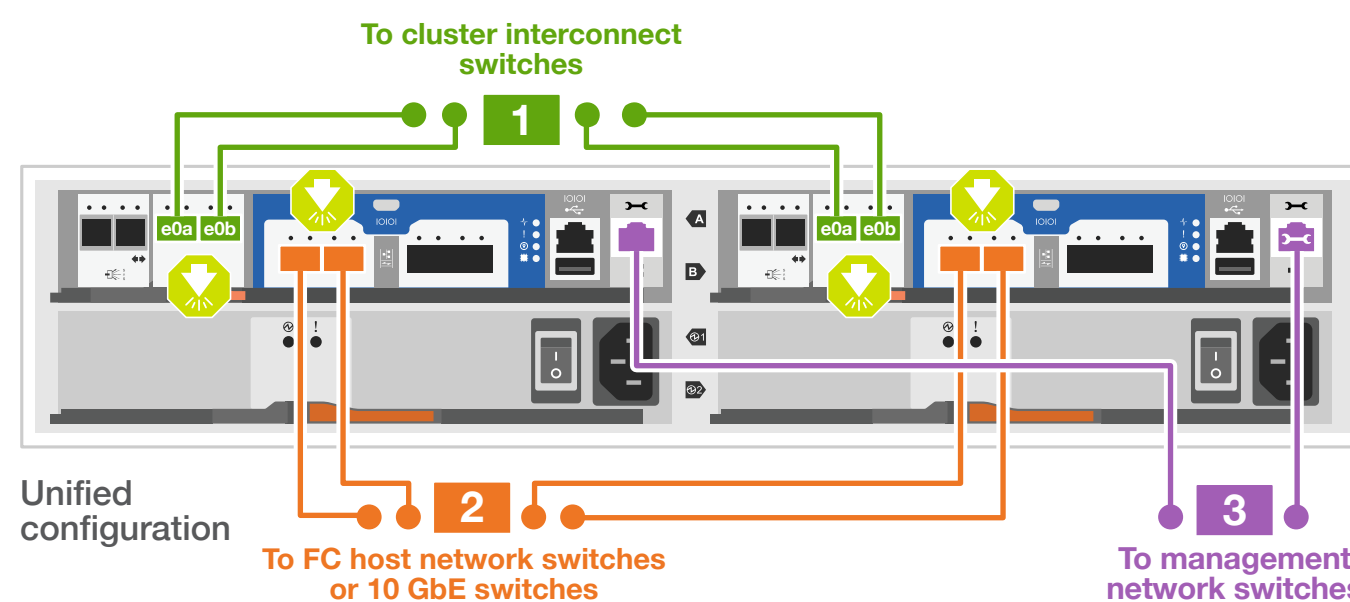
1 Connect both power cords

Power cables

1. Connect the power cables to each controller's power supply, and then to power sources on different circuits.
2. Secure the power cables using the securing device on each power supply.
3. Turn on the power switches to all nodes

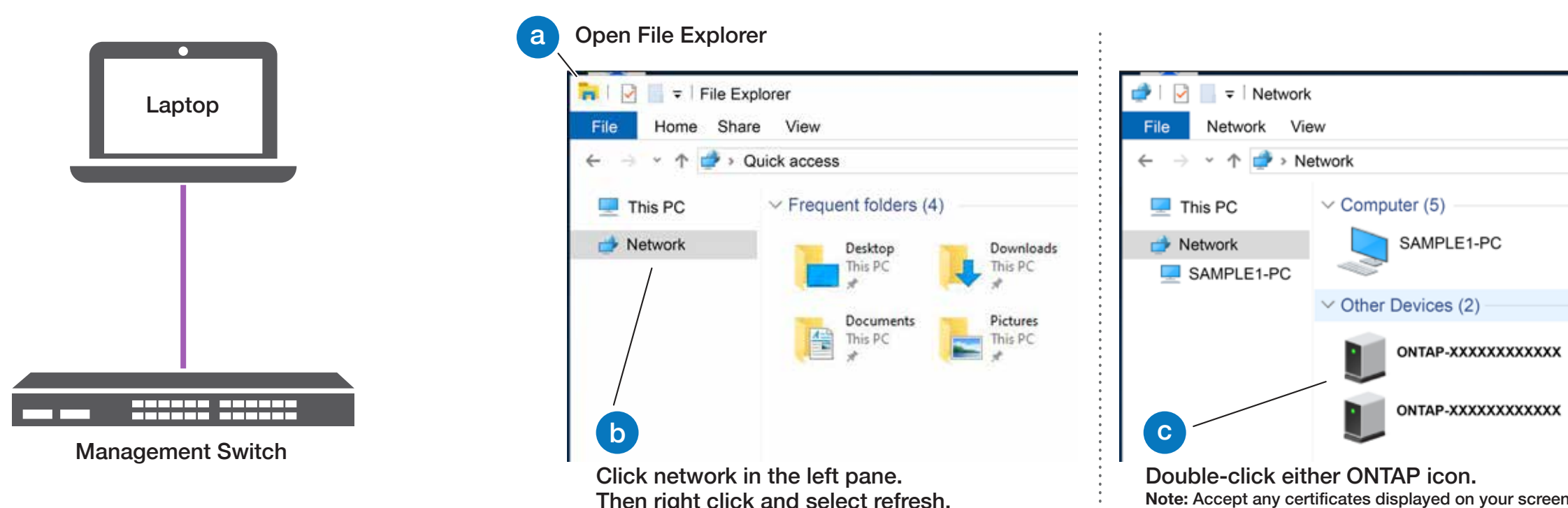| Controller A	Controller B
PSU 1	PSU 2
Power source on circuit A	Power source on circuit B

3 Complete the initial cluster setup with network discovery

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

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

Laptop

Management Switch

a Open File Explorer

File Explorer
File	Home	Share	View
← → ∨ ↑ ⬆ > Quick access
🖥 This PC	∨ Frequent folders (4)
⬆ Network	Desktop (This PC), Downloads (This PC), Documents (This PC), Pictures (This PC)

b Click network in the left pane. Then right click and select refresh.

Network
File	Network	View
← → ∨ ↑ ⬆ > Network
🖥 This PC	∨ Computer (5)
⬆ Network	SAMPLE1-PC
🖥 SAMPLE1-PC	SAMPLE1-PC
	∨ Other Devices (2)
	ONTAP-XXXXXXXXXXXX
	ONTAP-XXXXXXXXXXXX

c Double-click either ONTAP icon.
Note: Accept any certificates displayed on your screen.

4 Configure your cluster using the Configure ONTAP on a new cluster with System Manager procedure

5 Complete the 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, and then run it to verify the health of your storage system.
3. After you have completed the initial configuration, go to the NetApp ONTAP Resources page for information about configuring additional features in ONTAP.

Note: The default port configuration for Unified configuration systems is CNA mode; if connecting to an FC host network, you have to modify the ports for FC mode.