

# AFF C190 Systems

## Installation and Setup Instructions

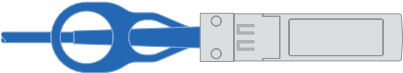
### Prepare for installation | Stage 1

Pre-setup

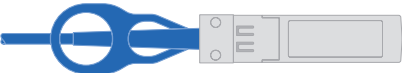
1. Unpack all boxes and inventory contents. For more cable information and part numbers, see the [Hardware Universe](#).
2. Go to the [AFF and FAS System Documentation Center](#) and click AFF C190 systems, and then Installation and Setup:
  - Review the [NetApp ONTAP Configuration Guide](#).
  - Watch the videos listed under [Setup videos](#).

In the box

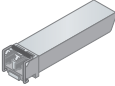
Data and cluster interconnect cables



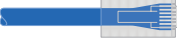
Cluster Interconnect cables  
Part number X6566B-05-R6 (112-00297) or X6566B-2-R6 (112-00299)




10 GbE network cables  
(order dependent)  
Part number X6566B-2-R6 (112-00299)  
or X6566B-3-R6 (112-00300) or X6566B-5-R6 (112-00301)



SFP for optical cables  
(order dependent)

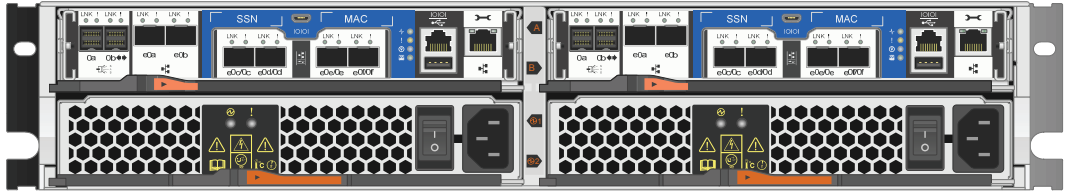


CAT6 RJ-45 cables  
(order dependent)  
Part numbers X6585-R6 (112-00291)  
or X6562-R6 (112-00196)

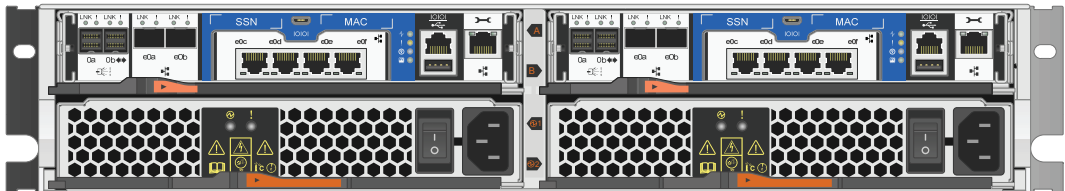


Optical network cables  
(order dependent)  
Part number X6553-R6 (112-00188) or X6554-R6  
(112-00189) or X6536-R6 (112-00090)


Unified configuration (order dependent)




Ethernet configuration (order dependent)




Additional cables



Ethernet cables

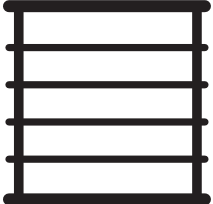


micro USB console cable



Power cables

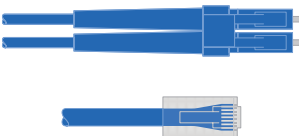
You provide



Rack space  
2U per chassis



Screwdriver  
Phillips



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



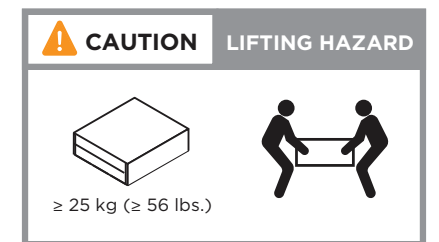
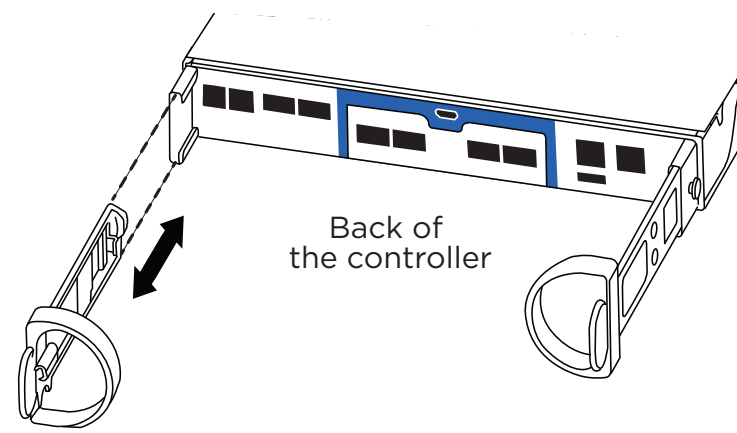
Laptop  
With a USB/serial connection and access to a  
Web browser to configure your storage system



# Install hardware | Stage 2

## 1 Install system in a rack or cabinet

- Install the rail or telco tray kits, as needed, and then install and secure your system using the instructions included with the kit.
- Attach cable management devices to the back of each controller (as shown).
- Place the bezel on the front of the system.

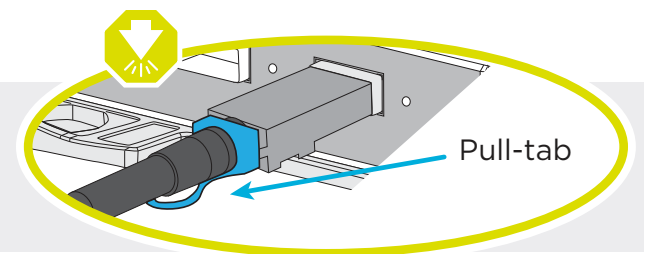


## 2 Cable controller for switchless or switched cluster

See your network administrator for help connecting to your switches.

**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.



**Note:** The illustrations below show the Unified configuration system. The cluster and management network cabling remain the same for an Ethernet configuration system. You will be using cables with RJ-45 connectors instead to connect to 10GbE switches.



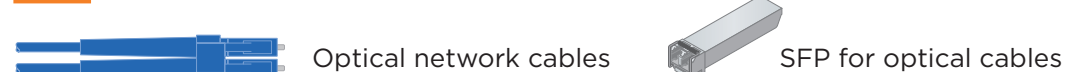
### 1 For switchless cluster

Connect port e0a to port e0a and port e0b to port e0b.

### For switched cluster

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

### 2 For Unified configuration



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.



OR for 10GbE switches use this cable.

### For Ethernet configuration systems



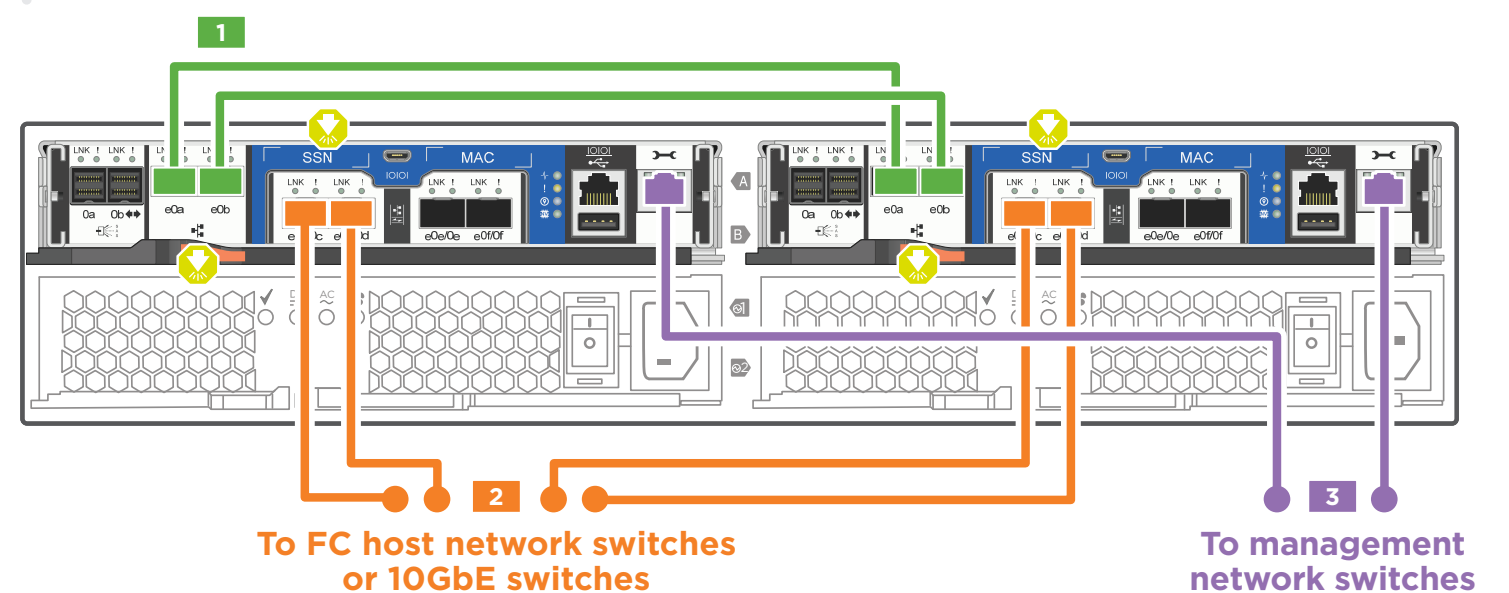
Cable ports e0c through e0f to the 10GbE switches.



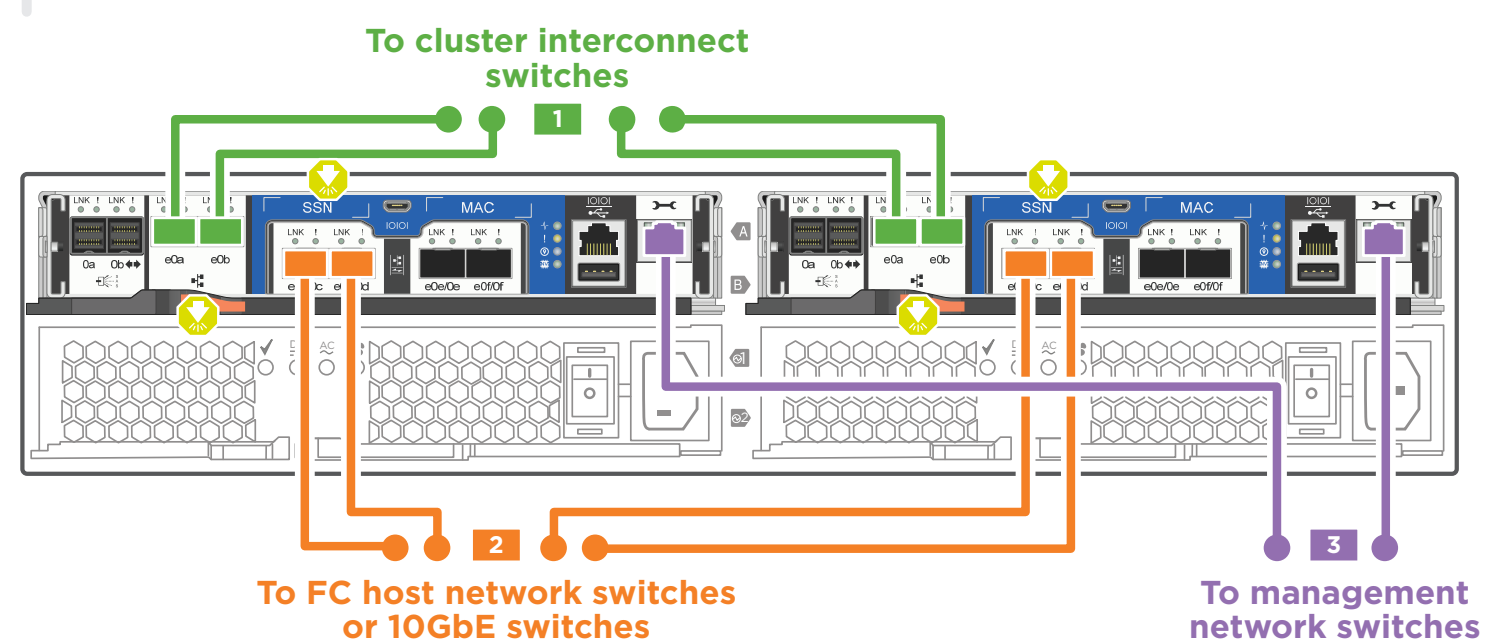
- 3 Connect the wrench port (e0M) on both controller modules to the management subnet switches.

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

## A Switchless cluster



## B Switched cluster

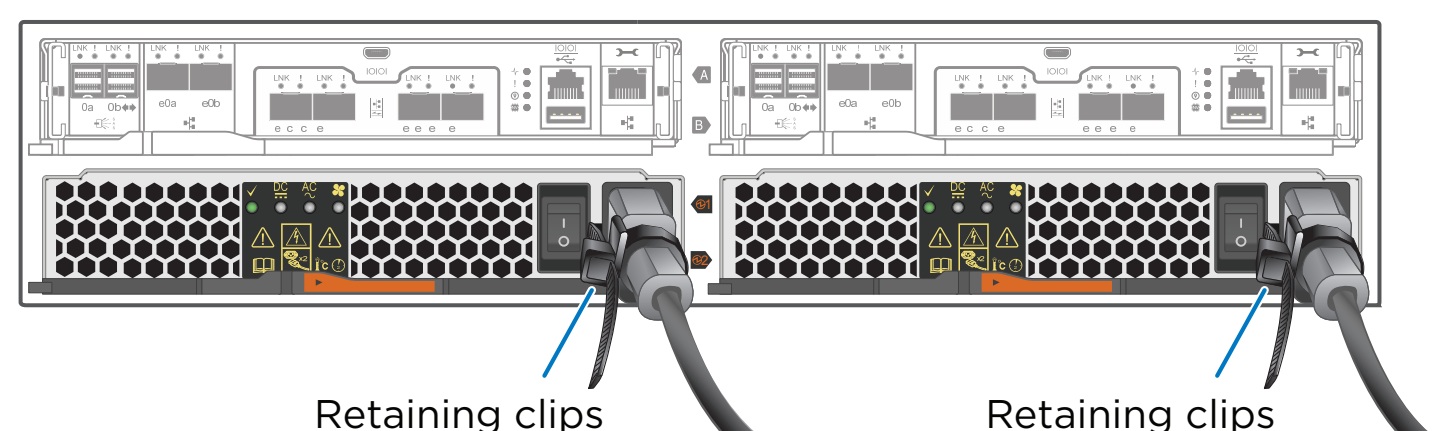


## 3 Connect both power cords



Connect the power cables to both power supplies.

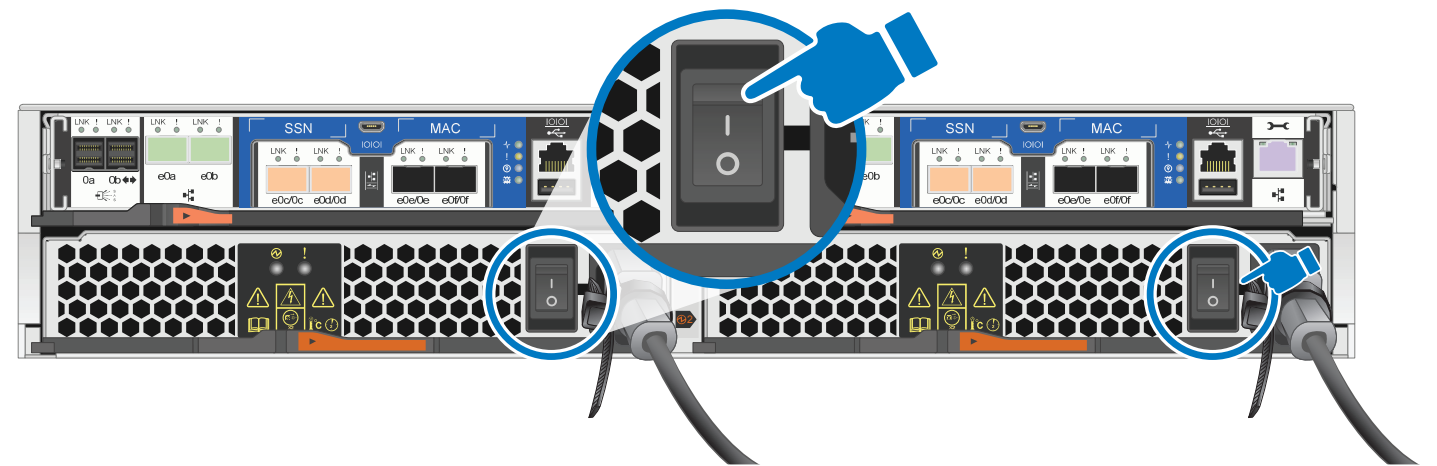
- Use the retaining clips.
- Connect power cables to different power sources.



# Complete system setup and configuration | Stage 3

## 1 Power on

Turn on the power switches to both nodes.



## 2 Complete initial cluster setup:

1. **Make sure that your laptop has network discovery enabled\*.**  
See your laptop's help for network discovery settings.

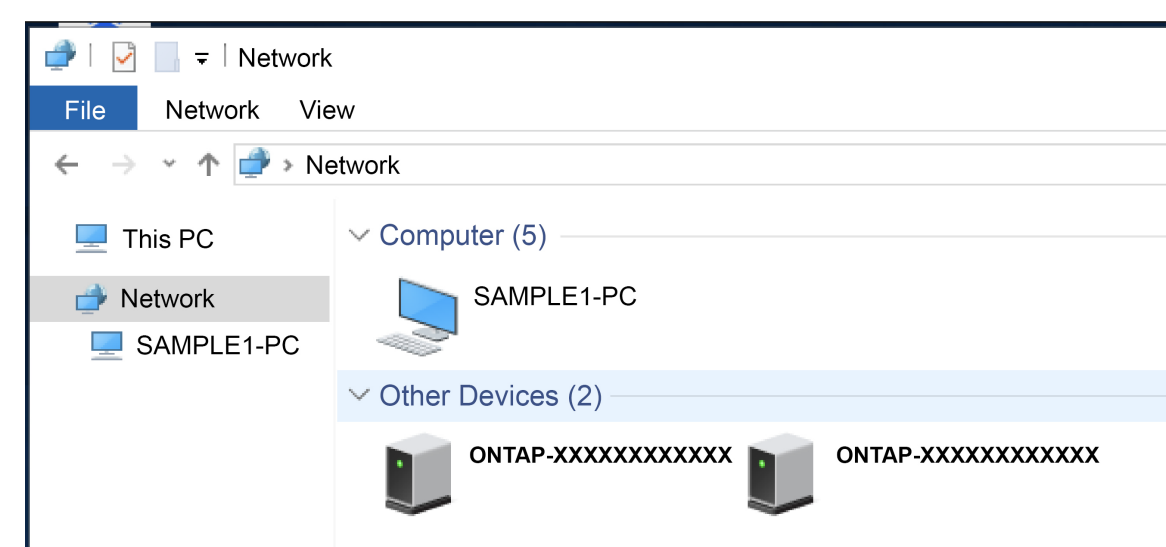
2. Connect your laptop to the Management switch.

3. Access the network computers and devices:
  - Open File Explorer
  - Click network in the left pane
  - Right click and select refresh.

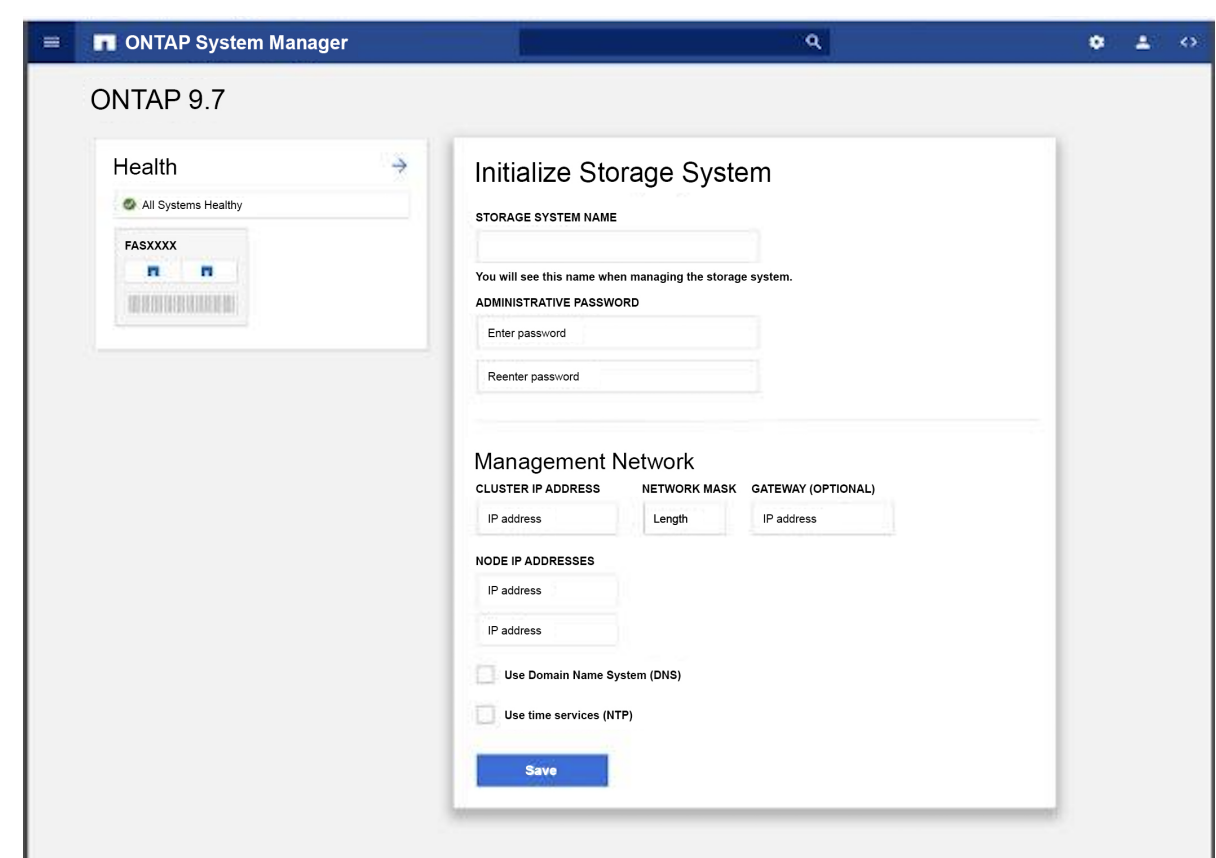
4. Double-click either ONTAP icon

**Note:** Accept any certificates displayed on your screen.

**\*If your laptop does not support network discovery, see the Installation and setup guide for your model for how to complete initial cluster setup.**



## 3 Use System Manager Guided Setup to configure your cluster



## 4 Completing setup

1. Click...
  - a) [mysupport.netapp.com](https://mysupport.netapp.com)
  - b) [Create/log in to your account](#)
  - c) [Download and install Active IQ Config Advisor](#)
  - d) [Register your system](#)
2. Verify the health of your system by running Config Advisor.
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.