1. Complete system setup and configuration

1. Configure your system using the Application Setup Wizard
   - Connect the console cable to the client and the console port on the controller module.
   - Connect the client to the switch and the console port on the controller module.
   - If you have DHCP configured on your management network, record the IP address assigned to the new controllers.

2. If your system has one or more external drive shelves, set the shelf IDs:
   1. Power on the drive shelf, and then remove the end cap on the left of the shelf.
   2. Press and hold the orange button until the first digit blinks, and then press the button to advance the first digit (0-9) to the desired number. The first digit continues to blink.
   3. Press and hold the button until the second digit blinks, and then press the button to advance the second digit (0-9) to the desired number. The first digit stops blinking, and the second digit continues to blink.
   4. Press and hold the button until the second digit stops blinking, and then replace the end cap on the shelf.
   5. Wait about 10 seconds for both digits to start blinking again and for the LED to illuminate, and then power-cycle the drive shelf to make the shelf ID take effect.
   6. Repeat these steps for any remaining drive shelves.

3. 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.

4. Configure your system using the Application Setup Wizard
   1. Assign an initial node management IP address to one of the nodes.
   2. If you have DHCP configured on your management network, record the IP address assigned to the new controllers.
   3. Use System Manager Guided Setup to configure your cluster.
   4. Run Config Advisor from your client to check the hardware installation of your system and for conformance to NetApp recommended settings.
Install hardware | 2

Unpack and install the system.
- Unpack all boxes and inventory contents.
- 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 device.
- Place the bezel on the front of the system.

Cable controller to switches (choose option A or B below)
See your network administrator for help connecting to your switch.

A Two node switchless cluster, ONTAP

1 OPTION A: Cable cluster interconnect ports A together in slot A4 and B4 (e4a) and again in slot A8 and B8 (e8a).

2 Connect the shelf-to-shelf ports to the management switches.

3 Connect the e4b and e8b ports to the data switches.
   Connect the e2a, e2c, e5a and e5c ports to the data switches.

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

5 Connect the power cables to the PSUs and connect them to different power sources (not shown).

B Switched HA configuration

1 Connect the shelf-to-shelf ports.

2 Connect the controllers to Stack 1.

3 Connect the controllers to Stack 2.

4 Insert SAS cable tab UP or tab DOWN and gently push into place until it clicks.

Cabling a FAS9000 or an AFF A700 WITH external storage (DS212C or DS224C disk shelves)

1 Connect the shelf-to-shelf ports

2 Connect the controllers to Stack 1

3 Connect the controllers to Stack 2

4 Insert SAS cable tab UP or tab DOWN and gently push into place until it clicks.

Multipath HA cabling
Quad-path HA cabling (optional)

DO NOT power on controllers at this point.
Install hardware | 2

1 Unpack and install the system.
   • Unpack all boxes and inventory contents.
   • 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 device.
   • Place the bezel on the front of the system.

2 Cable controller to switches (choose option A or B below)

Cable storage | 3

Cabling a FAS9000 or an AFF A700 WITH external storage (DS212C or DS224C disk shelves)

1 Connect the shelf-to-shelf ports
2 Connect the controllers to Stack 1
3 Connect the controllers to Stack 2
4 Insert SAS cable tab UP or tab DOWN and gently push into place until it clicks.

Option A:
Cable cluster interconnect ports A together in slot A4 and B4 (44a) and again in slot A8 and B8 (48a).

Option B:
Connect ports a in slot A4, B4, A8 and B8 (44a, 48a) to the cluster switch. Use the cables supported by your switch.

1 Connect the shelf-to-shelf ports to the management switch.

2 Connect the wrench ports to the management switch.

3 Connect the e48b and e8lb ports to the data switches.
   Connect the e24a, e24b, e40a and e40b ports to the data switches.

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

5 Connect the power cables to the PSUs and connect them to different power sources (not shown).

DO NOT power on controllers at this point.
Complete system setup and configuration

1. Cable and configure your client
   - Micro USB console cable
   - Connect the console cable to the client and the console port on the controller module.
   - Ethernet cable
   - Connect the client to the switch on the management subnet:
     a. Give the client a TCP/IP address on the management subnet.
     b. Set the console port on the client to 192.00 baud with 8-1 and flow control disabled.

2. If your system has one or more external drive shelves, set the shelf IDs:
   1. Power on the drive shelf, and then remove the end cap on the left of the shelf.
   2. Press and hold the orange button until the first digit stops blinking, and then press the button to advance the first digit (0-9) to the desired number. The first digit continues to blink.
   3. Press and hold the button until the second digit stops blinking, and then press the button to advance the second digit (0-9) to the desired number. The first digit stops blinking, and the second digit continues to blink.
   4. Press and hold the button until the second digit stops blinking, and then replace the end cap on the shelf.
   5. Wait approximately 10 seconds for both digits to start blinking again and for the LED to illuminate, and then power-cycle the drive shelf to make the shelf ID take effect.
   6. Repeat these steps for any remaining drive shelves.

3. 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.

4. Configure your system using the Application Setup Wizard
   1. Assign an initial node management IP address to one of the nodes.
      If you have DHCP configured on your management network, record the IP address assigned to the new controllers.
      Otherwise:
      a. Open a console session using PuTTY, a terminal server, or the equivalent for your environment.
      b. Enter the node management IP address when prompted.
   2. Use System Manager Guided Setup to configure your cluster:
      a. Point your browser to the address you assigned in step 1: https://x.x.x.x.
      b. Enter the data from your Cluster Configuration Worksheet.
   3. Run Config Advisor from your client to check the hardware installation of your system and for conformance to NetApp recommended settings.

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**AFF A700 and FAS9000 Systems**
**Installation and Setup Instructions**

**Prepare for installation | 1**

1. Go to mysupport.netapp.com and create an account, register your system, and get your license keys.
2. Unpack all boxes and inventory contents.
3. Go to the AFF and FAS System Documentation Center and click AFF A700 and FAS9000 systems, and then Installation and Setup:
   - Download Config Advisor
   - Download and complete the Cluster Configuration Worksheet.
   - Watch the videos listed under Setup videos.

**In the box**

- Host cables
  - Ethernet cables
  - 10GbE network cable
  - Part number 112-00508

- Storage cables
  - Module A4 cable
  - Part number 112-00508

- Controller-to-controller cables
  - 40GbE cluster interconnect cable
  - Part number 112-00452 or 112-00450

- Rack space
- Screws and nuts
- Additional network cables
- Power cables
- Client

**You provide**

- Optical network cable
  - Part number 112-00506
- 10GbE network cable
  - Part number 112-00505
- Storage cables
  - Power source
- Screwdriver Phillips #2
- Additional network cables
  - Not connecting your storage to your network switch or network

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**Pre-setup**

- Download and complete the Cluster Configuration Worksheet.
- Get your license keys.
- Unpack all boxes and inventory contents.
- Go to the AFF and FAS System Documentation Center and click AFF A700 and FAS9000 systems, and then Installation and Setup:
  - Download Config Advisor
  - Download and complete the Cluster Configuration Worksheet.
  - Watch the videos listed under Setup videos.