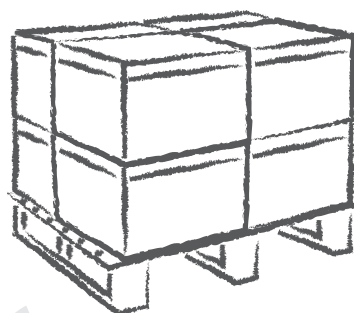# Installation and Setup Instructions
## AFF8020 Systems
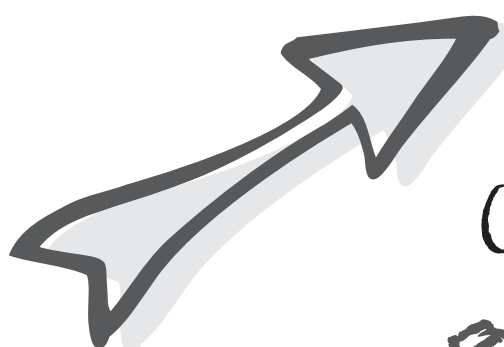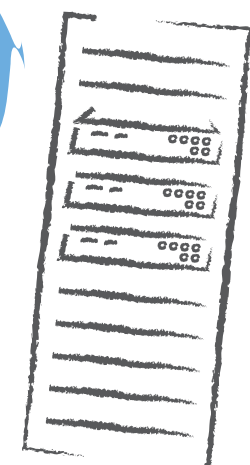
Prepare for Installation

**1**

**2** Install Hardware

**3** Cable Storage

**4** Complete System Setup and Configuration

www.netapp.com

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**1** Prepare for installation   ①—②—③—④

**In the box:**

**Controller-to-controller cables**

Part number 112-00297 or 112-00299

Cluster interconnect cable

**Host cables**

Part number 112-00299 or 112-00300 or 112-00301

10GbE network cable

**or**

Part number 112-00188 or 112-00189 or 112-00090

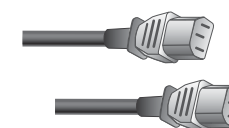Optical network cable

**Storage cables**

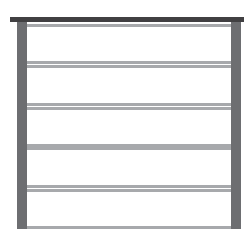Part number 112-00176 or 112-00177 or 112-00178

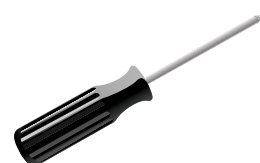SAS cables

Ethernet cables

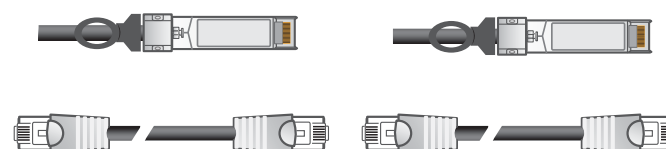Power cables

**Serial cable not needed for this configuration**

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**You provide:**

**Rack space 6U per chassis**

**Screwdriver**

**Additional network cables (Not provided with system)**
For connecting your storage to your network switch and Microsoft® Windows® client
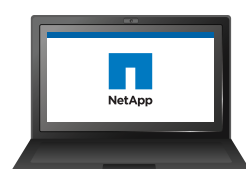
**Microsoft Windows® client**
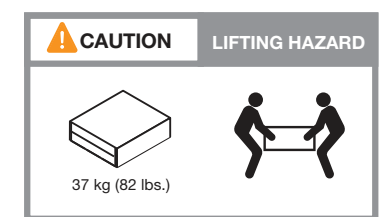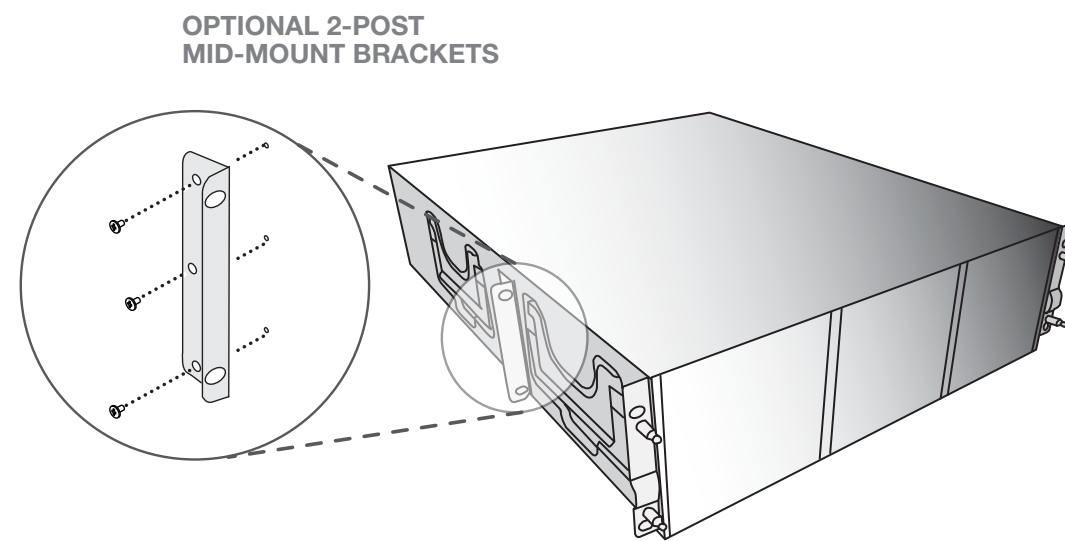Runs the software to configure your storage system

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**Download:**

- **FC SAN Optimized AFF Setup Guide**   https://library.netapp.com/ecm/ecm_download_file/ECMP12462582
- **Using All Flash FAS with Clustered Data ONTAP**   https://library.netapp.com/ecm/ecm_download_file/ECMP12466574
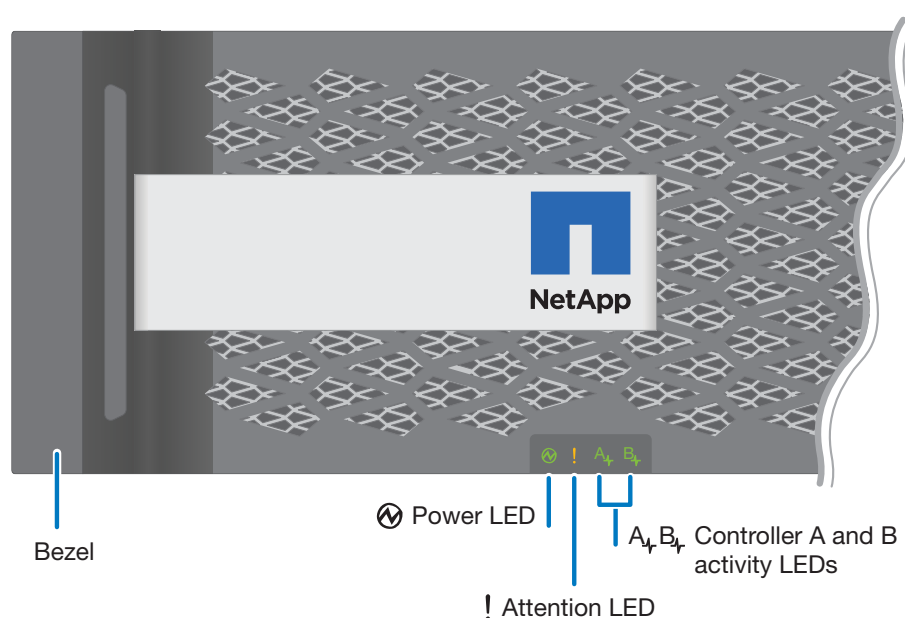- **NFS optimized NFS volumes in the System Manager Online Help**
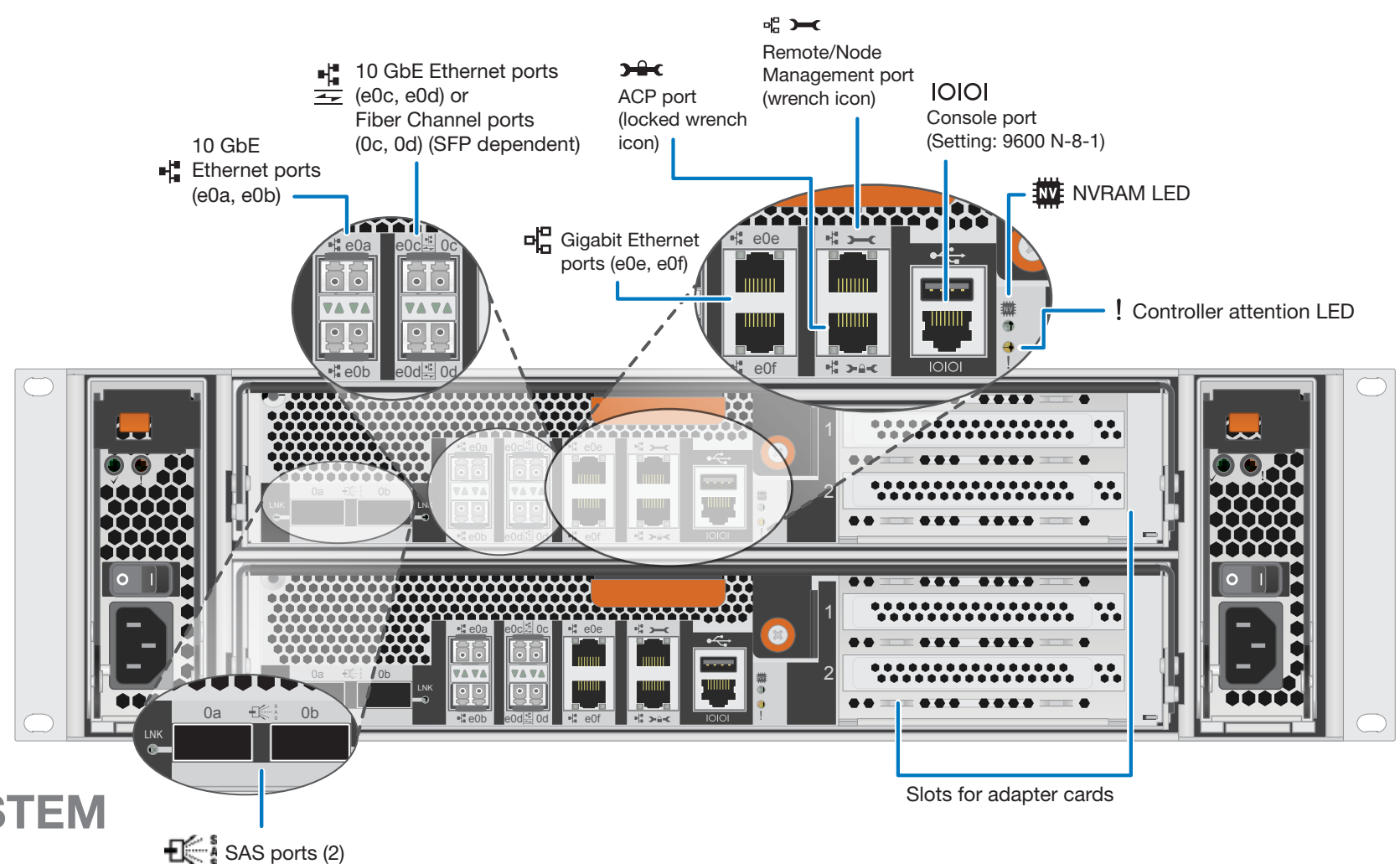
## 1 Unpack and install system

- Unpack all boxes and inventory contents.
- Install rail kits, as needed, using the enclosed installation instructions.
- Install system components on rails or in a system cabinet per installation instructions.
- Attach cable management arms.
- Place the bezel on the front of the system.

OPTIONAL 2-POST
MID-MOUNT BRACKETS

CAUTION — LIFTING HAZARD

37 kg (82 lbs.)

## FRONT VIEW OF SYSTEM

Bezel

Power LED

! Attention LED

A B Controller A and B activity LEDs

10 GbE Ethernet ports (e0a, e0b)

10 GbE Ethernet ports (e0c, e0d) or Fiber Channel ports (0c, 0d) (SFP dependent)

Gigabit Ethernet ports (e0e, e0f)

ACP port (locked wrench icon)

Remote/Node Management port (wrench icon)

IOIOI Console port (Setting: 9600 N-8-1)

NV NVRAM LED

! Controller attention LED

Slots for adapter cards

## BACK VIEW OF SYSTEM

SAS ports (2)

## 2 Cable controller to switches

See your network administrator for help connecting to your switches.

**1** Cluster interconnect cable
PN 112-00297 or 112-00299

Cable the cluster interconnect e0a to e0a and e0b to e0b ports on both controllers.

**2** Ethernet cables

Connect wrench ports to the management switches (for cluster and node mgmt. LIFs).

Connect e0e ports to the management switches (for SVM mgmt. LIFs).

**3** 10GbE Network cables
PN 112-00299 or 112-00300 or 112-00301

Connect e0c|0c and e0d|0d ports to data switches.

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

Two node switchless cluster, clustered Data ONTAP

TO DATA NETWORK SWITCHES

TO MANAGEMENT NETWORK SWITCHES

**⊗ DO NOT install power cables at this point.**

## A One stack with one disk shelf

**1 2** SAS cables
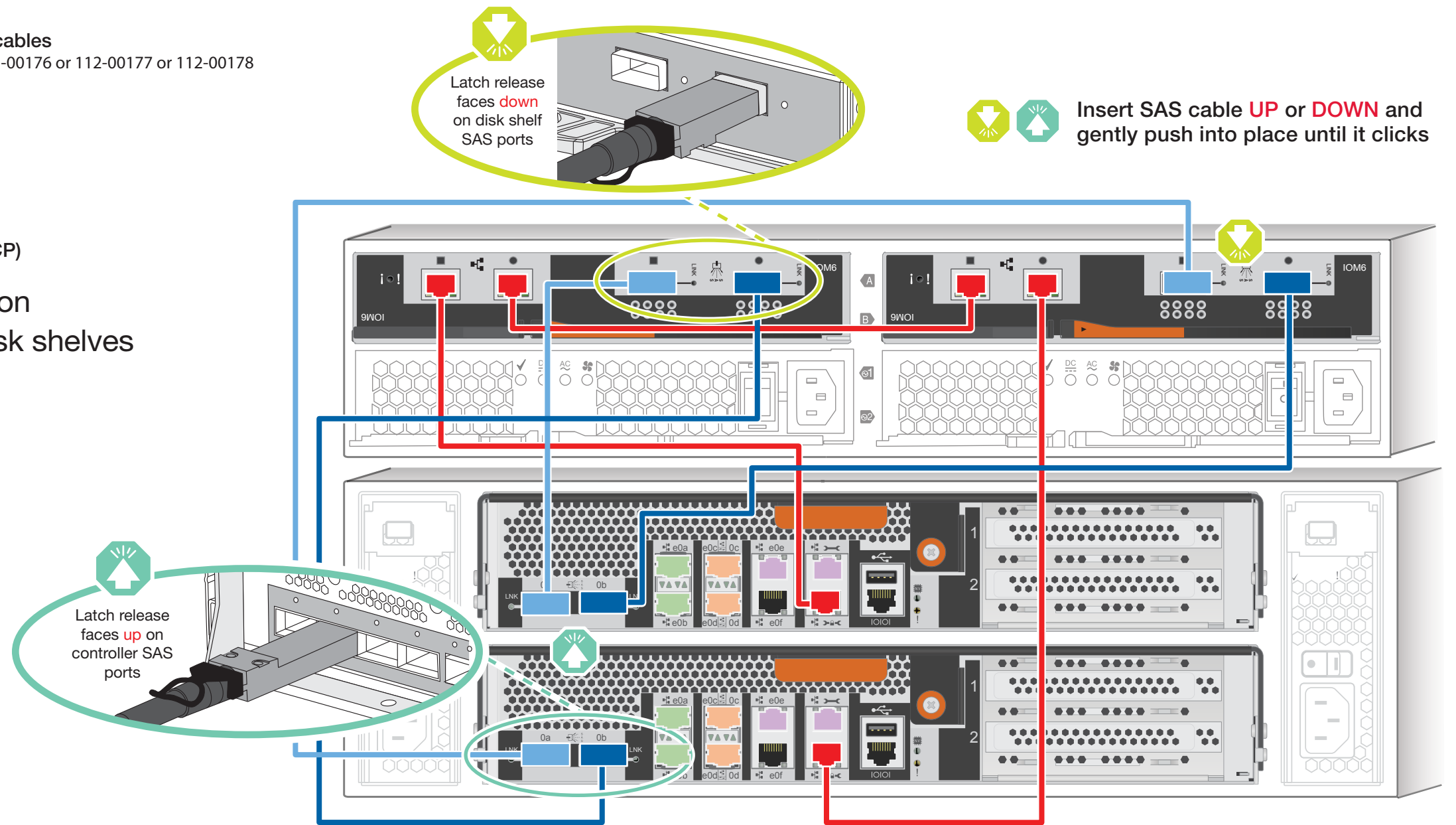PN 112-00176 or 112-00177 or 112-00178

**1** Connect first SAS ports

**2** Connect last SAS ports

**3** Ethernet cables (ACP)

Connect ACP port ⊶ on
each controller to the disk shelves

Latch release faces **down** on disk shelf SAS ports

Insert SAS cable **UP** or **DOWN** and gently push into place until it clicks

Latch release faces **up** on controller SAS ports

## B One stack with two disk shelves

**1 2 3** SAS cables
PN 112-00176 or 112-00177 or 112-00178

**1** Cable the SAS shelf-to-shelf ports

**2** Cable first SAS ports

**3** Cable last SAS ports

**4** Ethernet cables (ACP)

Cable ACP port ⊶ on
each controller to the disk shelves
and shelf-to-shelf ACP ports

Latch release faces **down** on disk shelf SAS ports

Insert SAS cable **UP** or **DOWN** and gently push into place until it clicks

Disk shelf 2

Disk shelf 1

Latch release faces **up** on controller SAS ports

For additional configurations, see HELPFUL LINKS.

# 4 Complete System Setup and configuration (Choose option A or B below)

## A Factory configured FC SAN or NFS Optimized Systems

**1 Cable Windows client to same network as your controllers**



WINDOWS CLIENT  VLAN  AFF80xx SYSTEM
MANAGEMENT SUBNET

- Set client networking configuration:
  **TCP/IP address:** 10.10.10.20
  **Netmask:** 255.255.255.0
  **Gateway:** 10.10.10.1

**2 Power on all disk shelves**
Refer to documentation shipped with disk shelves for details

**3 Connect power cables to controllers**
Both power supplies MUST be powered on.
**Power on controllers** May take up to 10 mins

**4 Log into System Manager**
- Enter IP: **10.10.10.10**
  **Note:** Ignore the security warnings about an untrusted site
- User name: **admin**
- Password: **netapp!123**

**5 Provision storage for your AFF system**
- Complete the *AFF SAN* and/or *NFS Optimized Installation Worksheet* for your system type from your shipment box or from: https://library.netapp.com/ecm/ecm_download_file/ECMLP2432838.
- Complete the storage provisioning wizards for your system.
  The wizards either automatically start when you log into the system or you can access them in the **Storage Applications** tab under **Storage Virtual Machines**.

**6 For advanced setup and preparation, go to:**
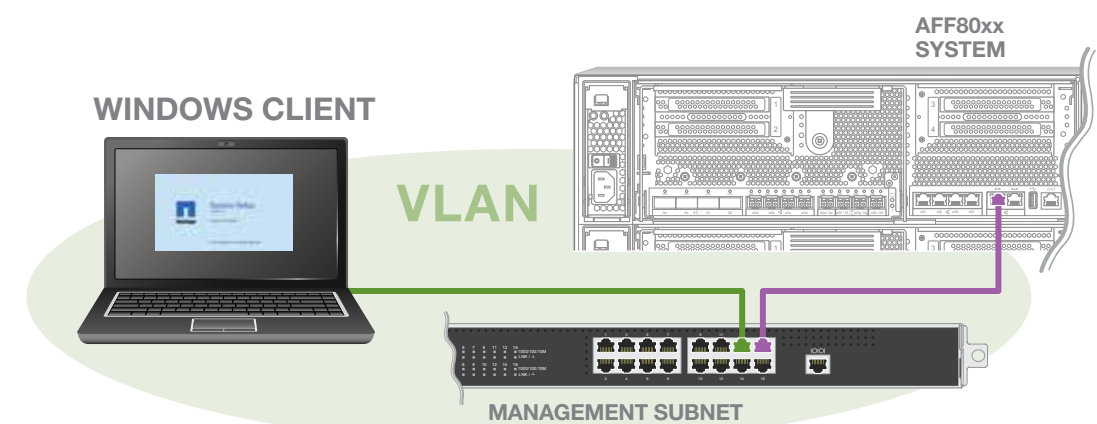**SAN:** https://library.netapp.com/ecm/ecm_download_file/ECMP12462582
**NFS:** See NFS optimized NFS volumes in the System Manager Online Help.

## B All other AFF Systems

**1 Complete configuration worksheet**
From http://mysupport.netapp.com/NOW/public/system_setup/

**2 Cable Windows client to same network as your controllers**



WINDOWS CLIENT  VLAN  AFF80xx SYSTEM
MANAGEMENT SUBNET

**3 Connect disk shelf power cables and power on all disk shelves only**

**4 Install and run System Setup software**
*If you cannot use System Setup, see the Data ONTAP Software Setup Guide.
- Install System Setup software
- Connect the power cables to the controllers. Do not power on your system until directed by System Setup software
  Both power supplies MUST be powered on.
- [Discover] the system.
  Wait for discover to complete.
- Enter the values from the configuration worksheet into System Setup.*

**5 Register at mysupport.netapp.com**

**6 Download and run Config Advisor**
http://mysupport.netapp.com/NOW/download/tools/config_advisor/

**7 Run OnCommand System Manager**
- Enter node's IP address.
- Provision storage.
- Configure other protocols, data protection, and AutoSupport.
- Set up Service Processor and Remote Support Agent.
- Using All Flash FAS with Clustered Data ONTAP https://library.netapp.com/ecm/ecm_download_file/ECMP12466574

## HELPFUL LINKS
**Visit the NetApp web site for more information.**

- **Using all Flash FAS with Clustered Data ONTAP:** https://library.netapp.com/ecm/ecm_download_file/ECMP12466574
- **Data ONTAP 8 library:** http://mysupport.netapp.com/documentation/productlibrary/index.html?productID=30092
- **Controller and configuration examples; Universal SAS and ACP Cabling Guide:** https://library.netapp.com/ecm/ecm_download_file/ECMM1280392
- **OnCommand System Manager documentation set:** http://mysupport.netapp.com/documentation/productlibrary/index.html?productID=61372
- **Hardware Universe:** https://hwu.netapp.com/
- **NFS optimized NFS volumes:** System Manager Online Help