**For factory configured FC SAN or NFS Optimized Systems**

1. **Cable Windows client to same network as your controllers**
   - For advanced setup and configuration, go to:
     - SAN: https://library.netapp.com/ecm/ecm_download_file/ECMP12462582
     - NFS: See NFS optimized NFS volumes in the System Manager Online Help.

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: netapp123

5. **Provision storage for your AFF system**
   - Complete the AFF SAN and/or NFS Optimized Installation Worksheet for your system type
   - 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. **Register at mysupport.netapp.com**

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

8. **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.

**For 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**

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

4. **Install and run System Setup software**
   - If you cannot see 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.
   - Enter the values from the configuration worksheet into System Setup.

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

6. **Download and run 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.

HELPFUL LINKS
- Using All Flash FAS with Clustering Data ONTAP: https://library.netapp.com/ecm/ecm_download_file/ECMP12466674
- Controller and configuration examples: Universal SAS and ACP Cabling Guide: https://library.netapp.com/ecm/ecm_download_file/ECMP12466674
- FC SAN Optimized AFF Setup Guide: https://library.netapp.com/ecm/ecm_download_file/ECMP12466674
- Device Universe: https://library.netapp.com/ecm/ecm_download_file/ECMP12466674
- NIFS optimized NFS volumes in the System Manager Online Help
2 Install hardware

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 tray.
   - Place the bezel on the front of the system.

2. Front of system

3. Back of system

4. Cable controller to switches

   See your network administrator for help connecting to your switches.

   1. Cable the cluster interconnect cable
      (for cluster and node regis, LIFs)
      Connect eth ports to the management switches (the SVM regis, LIFs)

   2. Different cables
      Connect eth ports to the management switches (the SVM regis, LIFs)

   3. SAS network cable (for cluster regis, LIFs)
      Connect ports to data switches.
      Optional - eth0f|0f and eth0h|0h to the data switches.

5. Two node switchless cluster, cluster Data ONTAP

6. TO MANAGEMENT NETWORK SWITCHES

3 Cable storage (Choose option A or B below)

A. Two stacks with one disk shelf each

1. Cable onboard SAS ports
2. Cable SAS card ports
3. Ethernet cables (ACP)

   Cable the ACP port on each controller to the disk shelves

B. Two stacks with two disk shelves each

1. Cable the SAS shelf-to-shelf ports
2. Cable onboard SAS ports
3. Cable SAS card ports
4. Ethernet cables (ACP)

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

For additional configurations, see HELP LINKS.
## Install hardware

### 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 tray.
- Place the bezel on the front of the system.

### 2 Cable controller to switches
See your network administrator for help connecting to your switches.

#### 3 Two stacks with one disk shelf each

1. **Cable onboard SAS ports**
2. **Cable SAS card ports**
3. **Ethernet cables (ACP)**
   - Cable the ACP port on each controller to the disk shelves.

#### 4 Two stacks with two disk shelves each

1. **Cable the SAS shelf-to-shelf ports**
2. **Cable onboard SAS ports**
3. **Cable SAS card ports**
4. **Ethernet cables (ACP)**
   - Cable ACP port on each controller to the disk shelves and shelf-to-shelf ACP ports.

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**FOR ADDITIONAL CONFIGURATIONS, SEE HELPFUL LINKS.**
For factory configured FC SAN or NFS Optimized Systems

1. Cable Windows client to same network as your controllers
   - Set client networking configuration:
     - TCP/IP address: 10.10.10.10
     - 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.

4. 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.

5. Enter the values from the configuration worksheet into System Setup.

6. 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.

7. Using All Flash FAS with Clustered Data ONTAP
   - For factory configured FC SAN
   - For all other AFF Systems

For 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

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

4. Install and run System Setup software
   - If you cannot see 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.

5. Register at mysupport.netapp.com

6. Download and run 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.

HELPFUL LINKS

- For factory configured FC SAN or NFS Optimized Installation
  - 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/ECMP12462582
  - Complete the storage provisioning wizards for your system.

- For all other AFF Systems
  - Complete the configuration worksheet
  - Complete the Affinity SAN and/or NFS Optimized Setup Guide
  - Complete the Affinity 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/ECMP12466574
  - Complete the storage provisioning wizards for your system.

Installation and Setup Instructions

AFF8040, AFF8060, and AFF8080 Systems