## Complete System Setup

### 1. Complete configuration worksheet
- Editable worksheet is available on the USB flash drive or at [http://support.netapp.com/NOW/public/system_setup/](http://support.netapp.com/NOW/public/system_setup/)

### 2. Cable Windows client
- Cable your Windows client to the same network as your controllers.

### 3. Install System Setup software
- Insert USB flash drive into USB port and install software.

### 4. Start System Setup software
- **Power** the system. *Up to 8 minutes.*
- Enter the values from the configuration worksheet into System Setup.*

## Complete configuration

### 1. Register at support.netapp.com
- Create an account.
- Register your system.
- Get your license keys.

### 2. Download OnCommand System Manager at [http://support.netapp.com/NOW/cgi-bin/software/](http://support.netapp.com/NOW/cgi-bin/software/)
- Provision more storage.
- Configure other protocols and data protection.
- Set up Service Processor and Remote Support Agent.

## Installation and Setup Instructions

### Switchless Clustered FAS2240-4 Systems

#### Prepare for installation

1. **Find in the box:**
   - Configuration worksheet
   - Starter network, storage, and 16 GbE cables
   - Power cables
   - Serial cable not needed for this configuration
   - USB flash drive
   - Configuration worksheet
   - Starter network, storage, and 16 GbE cables

2. **You need to provide:**
   - Screwdriver
   - Rack space - 4U
   - Accessory tray
   - Switchless Clustered FAS2240-4 Systems

3. Remove the rack from the shipping container.

4. **Connect storage to your network and configuration worksheet**

5. **Complete system configuration**

   - [Microsoft Windows client](#)
   - [Storage Manager documentation set](#)
   - [Data ONTAP 8 library](#)
   - [Site Requirements Guide](#)
   - [Data Protection Guide](#)
   - [File Access & Protocols Management Guide](#)
   - [Logical Storage Management Guide](#)
   - [Storage Management Guide](#)

   For connecting your storage to your network

   - [Microsoft Windows client](#)
   - [Additional network cables](#)
   - [Your network switch and Microsoft® Windows® client](#)
   - [NetApp Software Setup Guide](#)

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*If you cannot use System Setup, see the Data ONTAP® Software Setup Guide.*

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**Helpful Links**

- [System Setup landing page](#)
- [Configuration worksheet](#)
- [Site Requirements Guide](#)
- [Data ONTAP library](#)
- [OnCommand System Manager documentation set](#)
- [License site for your system](#)

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**Helpful Links**

- [OnCommand System Manager documentation set](#)
- [Site Requirements Guide](#)
- [Data ONTAP library](#)
- [License site for your system](#)

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**System Setup landing page**

- [Switchless Clustered FAS2240-4 Systems](#)
- [Get your license keys.](#)
- [Register your system.](#)
- [Create an account.](#)

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**Configuration worksheet**

- [Start System Setup software](#)
- [Install System Setup software](#)
- [Set up Service Processor and Remote Support Agent.](#)

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**Site Requirements Guide**

- [Full documentation set](#)
- [Requirements for FAS2240-4 Systems](#)
- [System requirements](#)

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**Data ONTAP library**

- [Documentation landing page](#)
- [Data ONTAP 8 library](#)
- [Data Protection Guide](#)
- [File Access & Protocols Management Guide](#)
- [Logical Storage Management Guide](#)
- [Storage Management Guide](#)

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**OnCommand System Manager documentation set**

- [Documentation landing page](#)
- [OnCommand System Manager documentation set](#)
- [Documentation for FAS2240-4 Systems](#)

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**License site for your system**

- [Support.netapp.com](#)
- [Software Setup Guide](#)
## Install hardware

### 1 Install system
- Rack the system.
- **Rail kit:** follow instructions in the rail kit. OR **System cabinet:** install in the system cabinet.
- Place the bezel over the front of the system.

### 2 Cable controller for switchless clustered Data ONTAP
1. Attach cable management arms.
2. Connect port e0a to the network switch.
   - **NOTE:** Port e0a is required, other ports are available if needed.
3. Connect the wrench port to the network switch.
4. Connect port e1a to port e1a and e1b to e1b
5. Strap the cables to the cable management arms.

   If you are converting from a switchless to a switched configuration, see the appropriate migration manual in the Cluster Management and Interconnect Switches library on the Support site.

   See your network administrator for help connecting to your switch.

### 3 Connect four power cords
- Use retaining clips
- **DO NOT power on system at this point.**

## Cable storage (Choose option A, B, or C below)

### A Cabling FAS2240-4 systems with NO external storage
1. **Single controller model**
   - Cable SAS ports
   - No additional cabling required for single controller

2. **Double controller model**
   - Cable ACP ports

### B Cabling FAS2240-4 systems WITH external storage DS424x disk shelves
1. **Single controller model**
   - Daisy chain SAS ports
   - Cable first SAS ports
   - Cable last SAS ports
   - Cable ACP connections

2. **Double controller model**
   - Daisy chain SAS ports
   - Cable first SAS ports
   - Cable last SAS ports
   - Cable ACP connections

### C Cabling FAS2240-4 systems WITH external storage DS2246 disk shelves
1. **Single controller model**
   - Daisy chain SAS ports
   - Cable first SAS ports
   - Cable last SAS ports
   - Cable ACP connections

2. **Double controller model**
   - Daisy chain SAS ports
   - Cable first SAS ports
   - Cable last SAS ports
   - Cable ACP connections

For additional configurations, see HELPFUL LINKS.
2 Install hardware

1 Install system
   - Rack the system.
   - Rail kit: follow instructions in the rail kit. OR System cabinet: install in the system cabinet.
   - Place the bezel over the front of the system.
   - Rack the system.

2 Cable controller for switchless clustered Data ONTAP
   1 Attach cable management arms.
   2 Connect port e0a to the network switch.
      NOTE: Port e0a is required, other ports are available if needed.
   3 Connect the wrench port (wrench icon) to the network switch.
   4 Connect port e1a to port e1a and e1b to e1b
   5 Strap the cables to the cable management arms.
      If you are converting from a switchless to a switched configuration, see the appropriate migration manual in the Cluster Management and Interconnect Switches library on the Support site.
      See your network administrator for help connecting to your switch.

3 Connect four power cords
   All four power cords MUST be used for all units.
   DO NOT power on system at this point.

3 Cable storage (Choose option A, B, or C below)

A Cabling FAS2240-4 systems with NO external storage
   1 Cable SAS ports
   2 Cable ACP ports
      No additional cabling required for single controller
      Single controller model
      Double controller model

B Cabling FAS2240-4 systems WITH external storage DS424x disk shelves
   1 Daisy chain SAS ports
   2 Cable first SAS ports
   3 Cable last SAS ports
   4 Cable ACP connections
      Single controller model
      Double controller model

C Cabling FAS2240-4 systems WITH external storage DS2246 disk shelves
   1 Daisy chain SAS ports
   2 Cable first SAS ports
   3 Cable last SAS ports
   4 Cable ACP connections
      Single controller model
      Double controller model

STOP HERE. If you have NO external storage, skip to B.
Complete System Setup

1. **Complete configuration worksheet**
   - Editable worksheet is available on the USB flash drive or at http://support.netapp.com/NOW/public/system_setup/

2. **Cable Windows client**
   - Cable your Windows client to the same network as your controllers.

3. **Install System Setup software**
   - Insert USB flash drive into USB port and install software.

4. **Start System Setup software**
   - Power on the system.
   - When directed, power on your system (or repower).
   - Wait for discover to complete. **Up to 8 minutes.**
   - Enter the values from the configuration worksheet into System Setup.*

   * If you cannot use System Setup, see the Data ONTAP 8 library.

Complete configuration

1. **Register at support.netapp.com**
   - Create an account.
   - Register your system.
   - Get your license keys.

2. **Download OnCommand System Manager at http://support.netapp.com/NOW/cgi-bin/software/**
   - Provision more storage.
   - Configure other protocols and data protection.
   - Set up Service Processor and Remote Support Agent.

HELPFUL LINKS
- Visit the NetApp web site for more information.