Installation and Setup Instructions for NetApp® FAS270/FAS270c Storage Appliances

Contents Shipped
- DB-9 to RJ-45 Console Adapter
- Power Cable
- Setup Kit
- Software License
- Four-Post Rail Kit
- Two-Post Rail Kit
- ESH2/AT-FCX Module
- ESH4 Module
- SFP Module

Required Tools:
- #2 Phillips Screwdriver

Note:
- For FAS270 systems with no Fibre Channel disks, all disk drive bays contain disk drive blanks, except bays 1 and 2, which contain power supply load boards.

Note:
- The Rail Kit box is included in rack installations only.

Note:
- For FAS270c systems with no Fibre Channel disks, all disk drive bays contain disk drive blanks, except bays 1 and 2, which contain power supply load boards.

Note:
- The Rail Kit box is included in rack installations only.

Node B
Node A
(f for FAS270c only)

Panel 1 - Front
Page - Landscape: Trim - 25.5” x 11”

3. Connect your appliance to the network by plugging the supplied network cable into the left network port.

4. Connect your appliance to a console by using the supplied DB-9 to RJ-45 console adapter.

5. Plug the SFP module into Fibre Channel port C. If you are not attaching a third-party device, terminate the port.

6. Set your appliance ID to 1.

7. If you are adding disk shelves:
   a) Set the terminate switch on the CPU module to Off.
   b) Repeat Step 3 through Step 5 for the second node of a FAS270c, if applicable.
   c) Go to Step 8.
   d) Repeat Step 3 through Step 5 for the second node of a FAS270c, if applicable.
   e) Go to Step 9.
   f) Repeat Step 3 through Step 5 for the second node of a FAS270c, if applicable.
   g) Go to Step 9.
   h) Go to Step 9.
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   vv vv) Go to Step 9.
Setting Up Your System

- Gather information about your system and record it in the "System setup information worksheet," which is in the Site Requirements Guide.

Note: For information about cabling and configuring your system as an FCP target in a Fibre Channel fabric, see the Block Access Management Guide. Make sure that your SAN switch is powered on and configured before you turn on power to your system.

- If you have a FAS270c, read "Understanding Disk Ownership" on this panel, and then record or assign disks to each node, using the "Disk Ownership Worksheet" on this panel.

- Complete the startup script on each node, as described in "Booting Your Appliance for the First Time" on the next panel.

Understanding Disk Ownership

A FAS270 CPU module owns all the disks in the system. However, in a FAS270c cluster configuration, each CPU module can own disks in either system, including the SES disks in each disk shelf in the system.

If you add disk shelves to your system, the disks in the shelf arrive with owned disks. You can assign ownership of the new disks to either CPU module (Node B), and odd drive bays (0b.17, 0b.19, 0b.21) assigned to the top CPU module (Node A).

Typically, your FAS270c arrives with even numbered drive bays (0b.20, 0b.22, 0b.24) assigned to the bottom CPU module (Node B), and odd drive bays (0b.17, 0b.19, 0b.21) assigned to the top CPU module (Node A).

To determine disk ownership:

1. Power on your appliance.
2. Check the system console for any error messages and cross-reference them to the FAS270 Series Hardware and Service Guide for corrective action.
3. Make sure that all attached disk shelves use ESH2/ESH4/AT-FCX modules.

Caution: ES1, ES4, and AT-FCZ modules are not supported for use in disk shelves connected to FAS270/FAS270c configurations.

Troubleshooting Tips

1. Check the system console for any error messages, and cross-reference them to the FAS270 Series Hardware and Service Guide for corrective action. Make sure that all attached disk shelves use ESH2/ESH4/AT-FCX modules.

Caution: ES1, ES4, and AT-FCZ modules are not supported for use in disk shelves connected to FAS270/FAS270c configurations.

2. Check all cables and connections, making sure that they are secure. Make sure that you used the supplied 86-9 to RJ-45 console adapter, or see the FAS270 Series Hardware and Service Guide for the RJ-45 pinout description.

3. Ensure that power is supplied and is reaching your appliance.

4. Check the LED status for system components to identify what failed. Replace components as needed.

For information about:

- Troubleshooting the platform
- Managing all aspects of your system
- Configuring and managing the FCP protocol, and creating and managing LUNs and initiator groups with the FCP service
- Configuring and managing the iSCSI protocol, and creating and managing LUNs and initiator groups with the iSCSI service
- Setting up your system in a Fibre Channel SAN environment
- Configuring a cluster
- Managing all aspects of your system
- The most current information about your system hardware
- Hardware configuration options available for your system
- The System Configuration Guide
- Accessing the platform
- Setting up equal-臂 ratios and diagnosing and correcting disk hardware problems
- Managing Fibre Channel or iSCSI disk shelves
- The RAID10/15/5MK2 Hardware Guide
- The DiskShelf14mk2 AT Hardware Guide
- The DiskShelf4mk2 AT Hardware Guide
- The Cluster Configuration Checker (http://www.netapp.com/NOW/local), for any errors, correct the node, and repeat the test.

The system begins to boot, and then it stops at the first installation question, which is displayed on the console.

Please enter the new hostname:

1. Enter the hostname.
2. Press any key to run all available diagnostics on your system.
3. Correct any errors you find.
4. Exit the diagnostics.
5. Power on your appliance.

- Power on your appliance.
- Exit the diagnostics.
- The system begins to boot, and then it stops at the first installation question, which is displayed on the console.

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