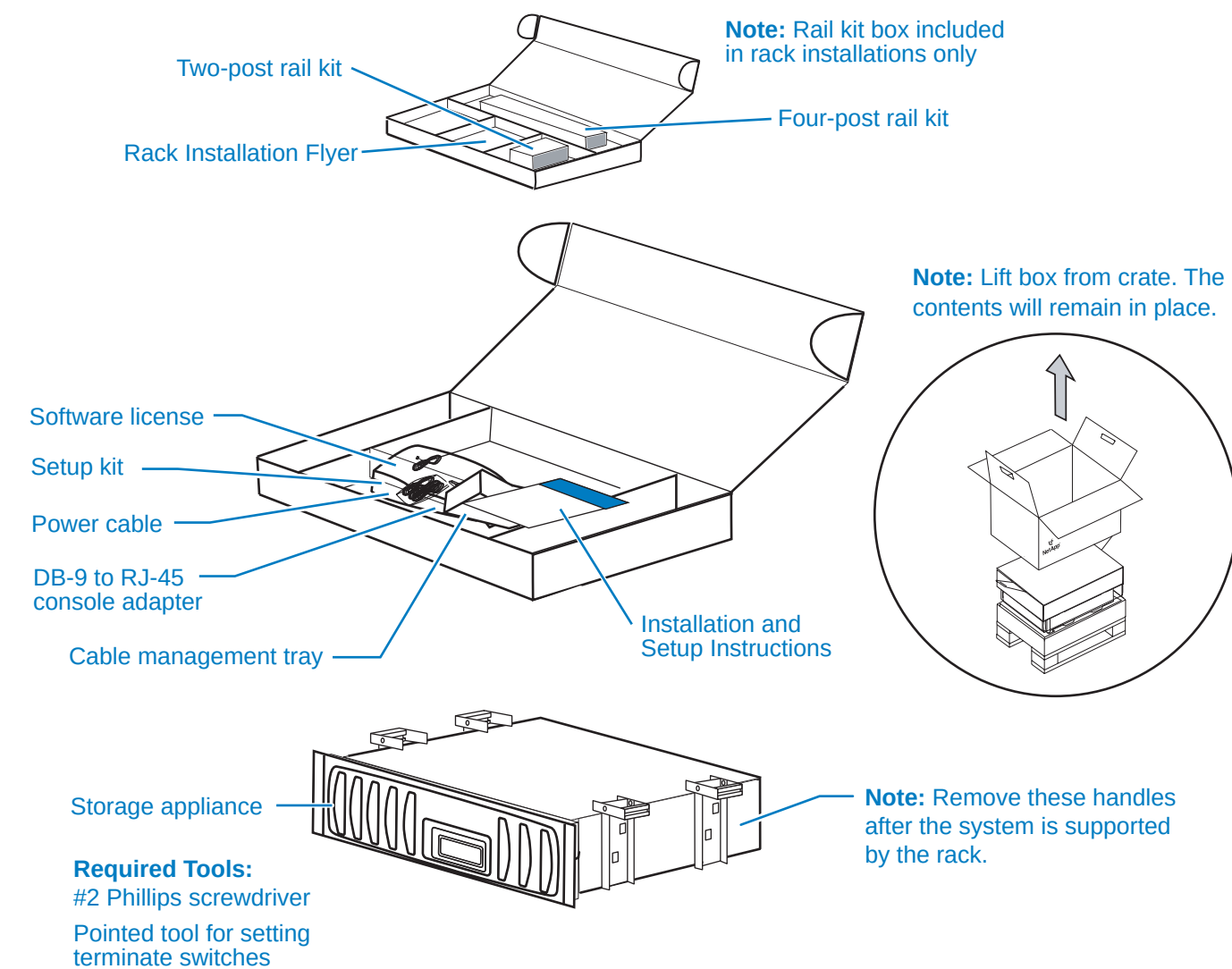




Installation and Setup Instructions for NetApp® FAS3000 Series Storage Appliances

Complete NetApp documentation is available from the NOW™ site at <http://now.netapp.com>. You can view the manuals online, print them locally, or order them.

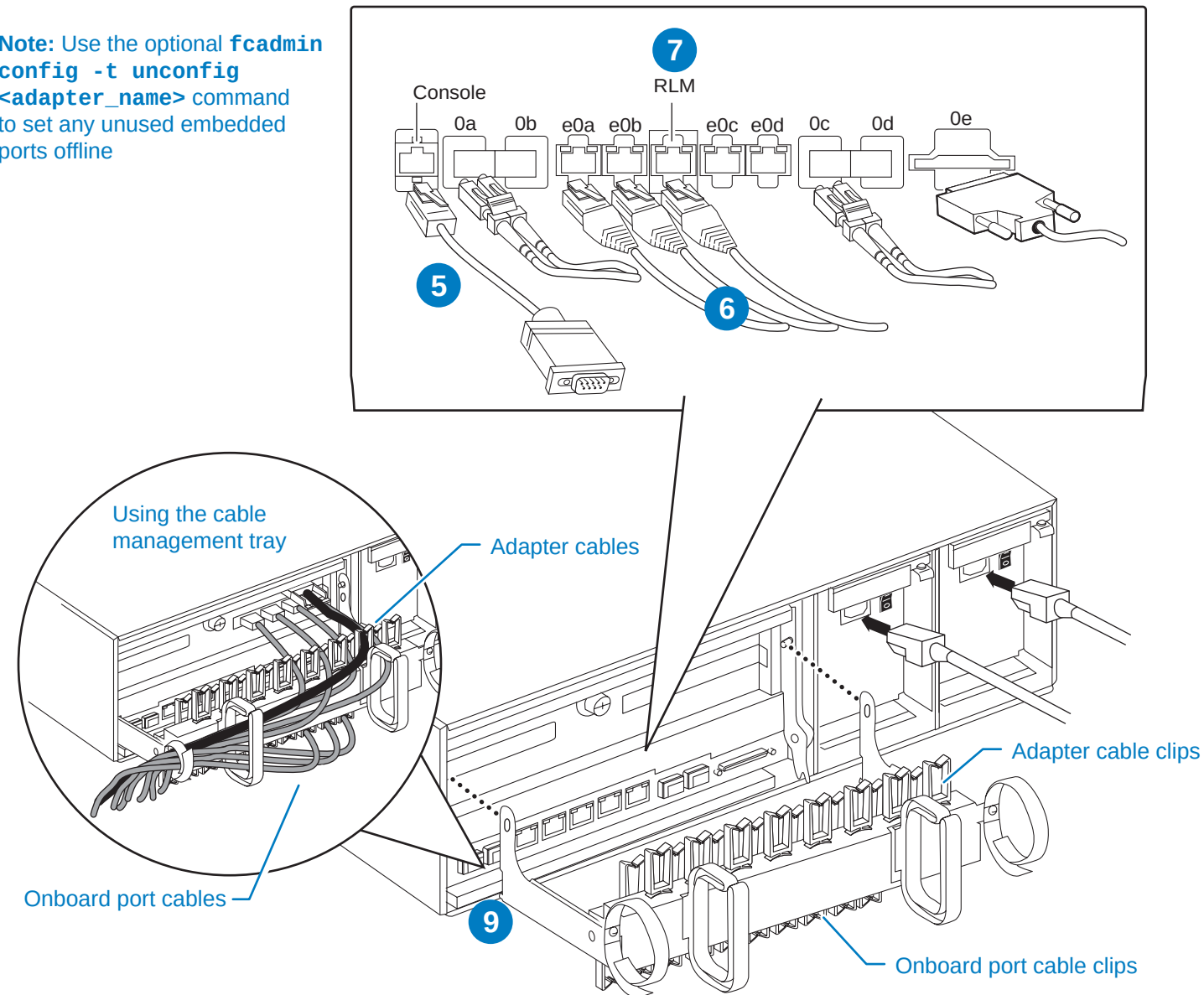
Contents Shipped



1. Inspect the contents of your shipment and carefully unpack it, using the preceding illustration as reference.
2. Use the Rack Installation Flyer in the rail kit box to install the appropriate rail kit on the rack.
3. Install the appropriate rack mount for the disk shelves, if applicable. Make sure that you leave enough room for the storage appliance.
4. Remove the bezel, install and secure the storage appliance to the rack, and then reinstall the bezel. Install the disk shelves as needed.

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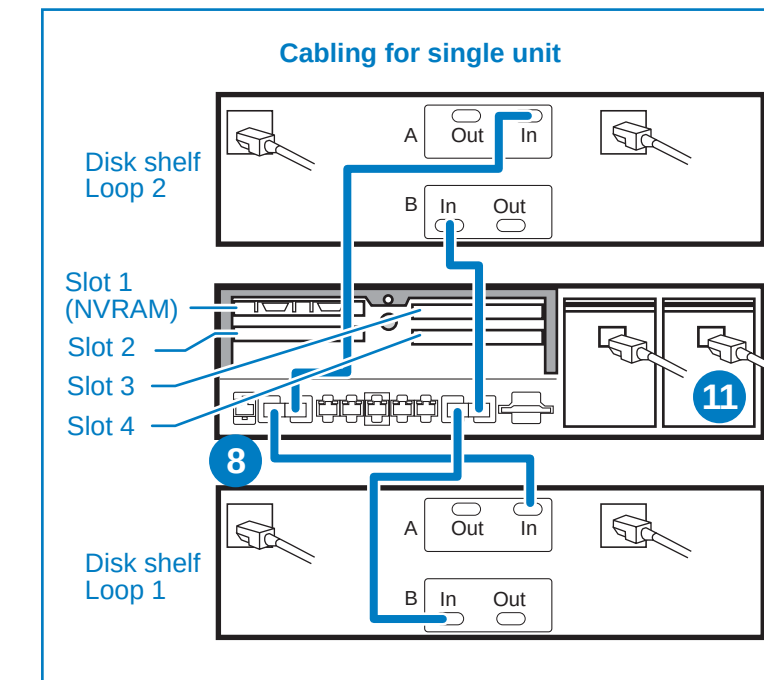
Note: Use the optional `fcadmin config -t unconfig <adapter_name>` command to set any unused embedded ports offline



5. Connect a console cable to the Console port on the system. Make sure that you use the RJ-45 to DB-9 adapter kit that is included with your system. Connect the console cable to the adapter.
6. Connect your system to the network by plugging the network cable into the green networking port, labeled e0a. If you are connecting more than one network cable to the network, connect sequentially from e0a through e0d.
7. Connect the RLM from the system (white port) to the network, using an Ethernet cable.
Important: The network for the RLM must negotiate down to 10/100 or autonegotiate.
8. Cable the orange Fibre Channel ports according to your configuration. Use the applicable figure on the following panel for reference.

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Fold line



9. Install your cable management tray by pinching the arms of the tray and fitting the holes in the arms through the motherboard tray pins. Then, push the cables into the cable holders, thread the adapter cables through the top rows of the cable holders, and thread the onboard port cables through the lower cable holders.

Note: You no longer need to ground your system.

10. Set all disk shelf terminate switches to Off except on the last shelf, which must be On. Note that the ESH2 is self-terminating and has no terminate switch.

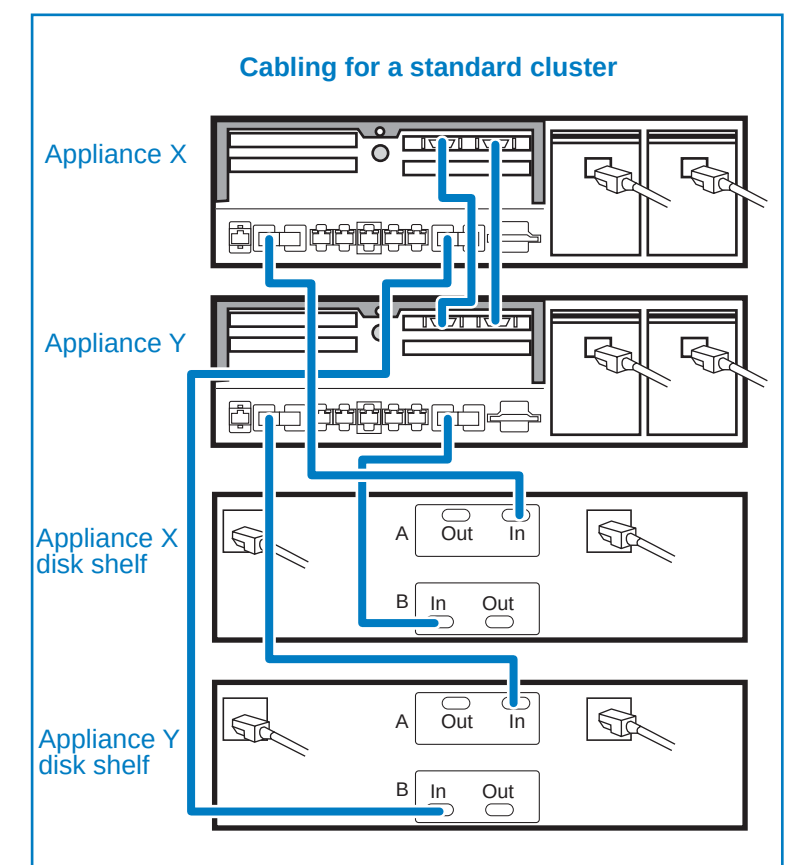
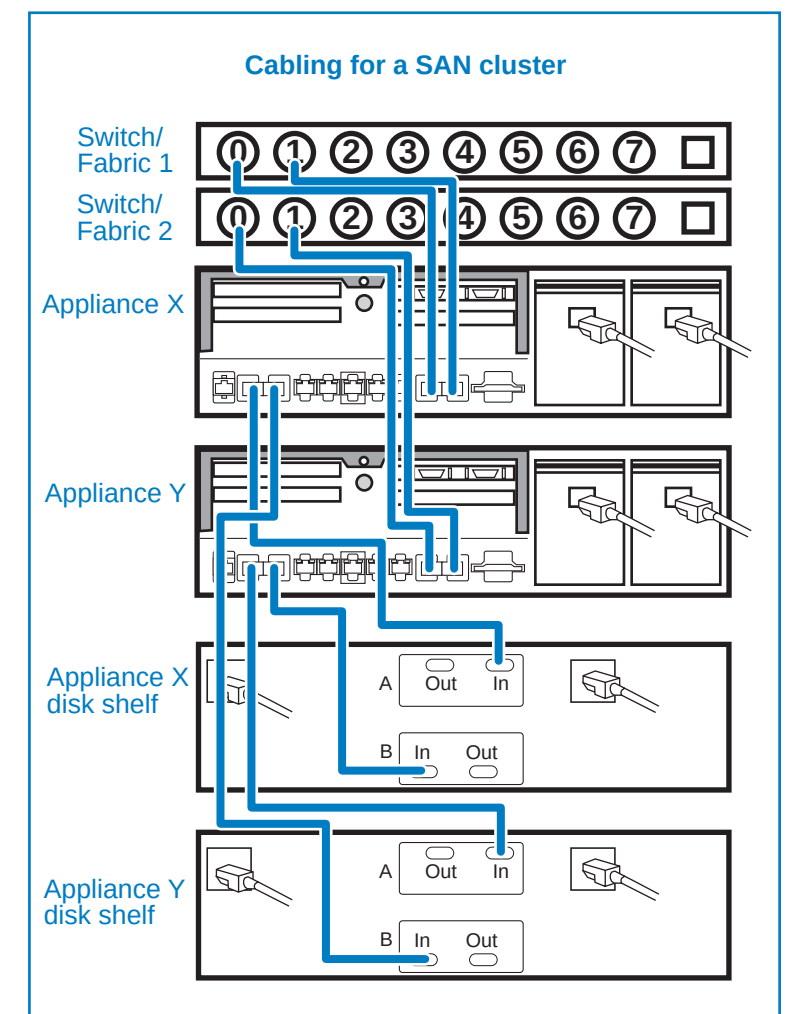
11. Connect the power cords, making sure that the power supplies are connected to separate AC power sources. This ensures redundant power sources.

If your appliance uses DC power, connect the cable to the power supplies, as described in the DC Power Supply flyer accompanying the system.

Caution: Do not turn on power to your system.

12. Go to "Booting your system for the first time."

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Booting your system for the first time

To boot your system for the first time, complete the following steps:

1. Check that your system is properly set up. Make sure that the disk shelf IDs are properly set, where applicable.

Note: Make sure that your switch is powered on and configured before you turn on your system.

2. Turn on the power to any switches, then turn on the disk shelves within 5 minutes of each other, then turn on any tape backup devices.

3. Turn on the power to the appliance.

Note: It takes the LEDs on the system power supplies a few seconds to illuminate.

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

4. Verify that all network and RLM LEDs are properly lit.

5. Go to the system console and answer the displayed questions, using the information you gathered and entered in the “FAS3000 series and C2300/C3300 Setup Worksheet” in the *Site Requirements Guide*.

Note: If you configured the RLM during setup, the setup script pauses for a short time while the RLM reboots and sets its configuration information.

6. Check the licenses on your system by entering the following command: `license`

Add any missing licenses by entering the following command for each missing license:

`license add xxx`

`xxx` is the license code for the product.

7. Continue with post-setup configuration as needed, using the manuals listed in the following table.

Where to go for more information

For information about...	Go to http://now.netapp.com for...
New features, enhancements, known issues, and late-breaking news for your version of Data ONTAP™ software	The <i>Release Notes</i> for your version of Data ONTAP
Setting up and verifying software configuration	<i>Software Setup Guide</i>
Managing all aspects of your system	The documentation for your version of Data ONTAP (see the Documentation Roadmap for an overview)
Configuring and managing the iSCSI protocol, and creating and managing LUNs and initiator groups with the iSCSI service	The <i>Block Access Management Guide for iSCSI</i>
Cabling and configuring a cluster	The <i>Cluster Guide</i>
	The <i>System Administration Guide</i>
	The <i>Data Protection Guide</i>
Configuring and managing the FCP protocol, and creating and managing LUNs and initiator groups with the FCP service	The <i>Block Access Management Guide for FCP</i>
Cabling and configuring a four-port SAN configuration	
The most current information about your system hardware	The <i>Hardware Information Library</i> page
Hardware configuration options available for your system	The <i>System Configuration Guide</i> for your version of Data ONTAP
Troubleshooting the system	<i>Hardware and Service Guide</i>
Testing field-replaceable units and diagnosing and correcting system hardware problems	<i>NetApp Hardware Diagnostics Guide</i>
Configuring your RLM after initial setup	<i>System Admininstration Guide</i>
Managing your disk shelves	<i>DiskShelf14mk2 AT Hardware Guide</i>
	<i>DiskShelf14 and DiskShelf14mk2 FC Hardware Guide</i>

Troubleshooting tips

If your appliance does not boot when you power it on, follow these troubleshooting tips in the given order:

1. Look for a description of the problem on the LCD and console. Follow the instructions, if provided, on the LCD and console.

2. Check all cables and connections, making sure that they are secure.

3. Ensure that power is supplied and is reaching your appliance. Check the LEDs above the power cords. They should be green.

4. Check the power supplies on your appliance and disk shelves. If the LEDs on a power supply are not illuminated, remove the power supply and reinstall it, making sure that it connects with the backplane.

5. Verify disk shelf compatibility and check the disk shelf IDs:

a. Disk shelf 1 (for DS14 series) must be connected to your appliance.

b. All other disk shelves must have unique IDs (between 2 and 7) and must be placed in consecutive order.

6. Ensure that the shelf speed is correct:

• DS14mk2 FC with LRCs, set to 1 Gb
- DS14 and DS14mk2 FC mixed in the same loop, set to 1 Gb regardless of module type

• DS14mk2 FC with ESH/ESH2, set to 2 Gb, or 1 Gb, if desired

7. Turn off your appliance and disk shelves, and then turn on the disk shelves. Check the quick reference card that came with the disk shelf for information about LED responses.

8. Use the onboard diagnostics to check the disks:

a. Turn on your appliance. Enter `boot diags` at the system console prompt.

b. Enter `fcal` in the Diagnostic Monitor program that starts at boot.

c. Enter `73` at the prompt to show all disk drives.

d. Exit the Diagnostics Monitor by entering `99` at the prompt.

9. If your appliance does not boot successfully, it might not have the boot image downloaded on the CompactFlash™ card. Call NetApp technical support at +1(888)4-NETAPP.



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