

Sun Fire™ X4150, X4250 and X4450 Servers

Getting Started Guide

This guide describes the minimum steps you must perform to power on and boot your server for the first time. Detailed installation information can be found in the *Installation Guide* for each server, which is available at the Sun product documentation web site. Refer to the section “[Documentation for This Product](#)” at the end of this document for a list of documentation for your system and location of the documentation.

Contents

The Sun Fire™ X4150, X4250, and X4450 servers are shipped with the components that you ordered for your configuration. Optional components or rack installation hardware might be packaged and shipped separately.

Documentation and Media Kit

The Documentation and Media Kit is an orderable option for your server. It contains installation documentation, the Tools and Drivers CD/DVD, the Sun Installation Assistant CD/DVD, and the SunVTS CD/DVD. You can order additional media kits at any time, using the following marketing part numbers: Sun Fire X4150: X6438A; Sun Fire X4250: X6369A; and Sun Fire X4450: X6439A.

Safety and Compliance Information

Before performing an installation, refer to the following documents for safety information:

- *Important Safety Information for Sun Hardware Systems* – Printed document included in the ship kit.
- *Safety and Compliance Guide* - Available on the product documentation site.

▼ Install Optional Components

Before installing the server into the rack, you must first install any optional components that you ordered with the server, such as DIMMs, PCIe cards, and so on. Refer the *Service Manual* for your server for instructions on about installing optional components.

▼ Mount the Server in a Rack

For rackmounting instructions, refer to the instructions included with the rail kit, the service label on the server, and the server *Installation Guide*.

▼ Connect the Cables

1. Connect a serial cable between the server's SER MGT port (FIGURE 1) and a serial terminal device.

This connection provides your initial communication with the service processor (SP). The device must be set up to communicate using 9600 baud, 8 bit, no parity, 1 stop bit. A null modem configuration is needed, meaning the transmit and receive signals are reversed (crossed over) for DTE to DTE communications. You can use the supplied RJ-45 crossover adapter with a standard RJ-45 cable to achieve the null modem configuration. (FIGURE 1 shows the Sun Fire X4150 server. The locations of the connectors and ports are the same on the Sun Fire X4250 and X4450 servers.)

FIGURE 1 Back Panel of Server (Server Connections)

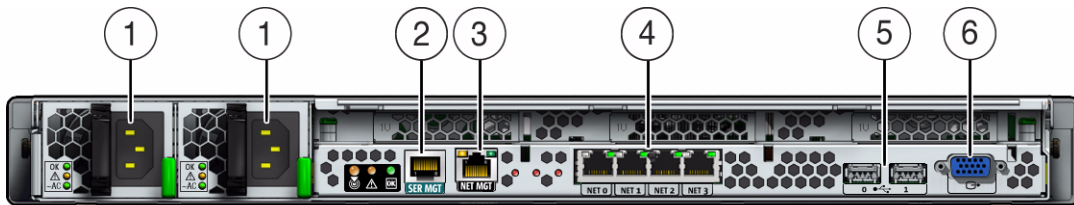


Figure Legend

1	AC power connectors	4	Gigabit Ethernet ports NET 0, 1, 2, 3 (Intel)
2	Serial management (SER MGT)/RJ-45 serial port	5	USB 2.0 ports (0, 1)
3	Service processor network management (NET MGT) port	6	HD15 video connector (analog VGA)

2. (Optional) Connect an Ethernet cable between the server's NET MGT port and the network to which future connections to the SP will be made.

After the initial configuration of the system using the SER MGT port, communication with the SP is usually performed through this Ethernet interface.

3. Connect an Ethernet cable between one of the server's NET ports (NET 0, 1, 2, or 3) and the network to which the server will communicate.

4. Connect the power cords to the AC power connectors and, to enhance redundancy, connect the cords to separate power sources.

When power is applied, the SP initializes and the Power/OK LED (FIGURE 2) flashes. After a few minutes, the SP Login prompt appears on the terminal device. Note that the server is not initialized or powered on yet. You can now set up the ILOM.

ILOM Connection Options

This section describes the tasks for initial setup of SP and Integrated Lights Out Manager (ILOM) software. Refer to the installation guide for your server and the ILOM 3.0 documentation for instructions on using ILOM to configure and manage the server.

There are three methods for connecting to the ILOM SP to perform initial setup and configuration:

- Connect to ILOM using a serial connection
- Connect to ILOM using an Ethernet connection (DHCP)
- Connect to ILOM using an Ethernet connection (static IP address)

The method for connecting to ILOM using a serial connection is given in this document; for the remaining methods, refer to the *Installation Guide* for your server.

Note – The connection options described in this document assume that ILOM 3.0 is installed on your server. Earlier versions of ILOM are available for all Sun Fire X4x50 servers and Embedded LOM (ELOM) is also available for the Sun Fire X4150 and X4450 servers. The documentation for all supported LOM versions are available in your server’s documentation set.

▼ Connect to ILOM Using a Serial Connection

1. Verify that your terminal, laptop, or terminal server is operational.
2. If not already configured, configure the terminal device or terminal emulation software running on a laptop or PC. For information, see “[Connect the Cables.](#)”
3. If not already connected, connect a serial cable from the RJ-45 SER MGT port ([FIGURE 1](#)) on the server’s back panel to a terminal device. For information, see “[Connect the Cables.](#)”
4. Press Enter on the terminal device to establish a connection between the terminal device and the ILOM SP.
5. At the ILOM Login prompt, log in to ILOM.
The default user name is `root`; the default password is `changeme`.

▼ Register the System

1. Locate the serial number for your system on the EZ label or on the customer information sheet that came with the system.
2. Go to the following web site to register your system:
<http://www.sun.com/service/warranty/index.xml#reg>

▼ Power On the System

Use this procedure to apply main power to the server. Do not apply main power to the server until you are ready to install a platform operating system.



Caution – Do not operate the server without all fans, component heatsinks, air baffles, and the cover installed. Severe damage to server components can occur if operated without adequate cooling mechanisms.

1. Verify that the power cord has been connected ([FIGURE 1](#)) and that standby power is on.
At this point, standby power is supplied only to the service processor and power supply fans. In standby power mode, the Power/OK LED on the server’s front panel flashes. ([FIGURE 2](#) shows the Sun Fire X4150 server. The Sun Fire X4250 and X4450 server front panel controls are the same as Sun Fire X4150 controls.)

FIGURE 2 Server Front Panel Controls



Figure Legend

1	Power/OK LED	2	Power Button
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2. To power on the server, use a non-metallic stylus to press and release the recessed Power button on the front panel.

The server powers on and enters the power-on self-test (POST). The Power/OK LED lights and remains on.

Note – POST can take up to 1 minute to complete.

3. Continue with initial software setup tasks, as described in the server *Installation Guide*.

▼ Set Up the Platform Operating System, Driver Software, and Firmware

After configuring the ILOM SP with network settings, you can configure a preinstalled or supported OS.

Sun Installation Assistant

Sun *highly* recommends using the **Sun Installation Assistant (SIA)** to automate firmware upgrades and to install a supported Linux or Windows operating system.

To determine which operating systems and firmware upgrades are supported by SIA for your system and to download SIA, go to <http://www.sun.com/systemmanagement/sia.jsp>. SIA is also available in the Documentation and Media Kit.

Also refer to the *Sun Installation Assistant for Windows and Linux User's Guide* (820-3357) at <http://docs.sun.com/app/docs/prod/install.x64svr#hic>.

Operating System, Firmware and Driver Information

For information about operating systems supported for your system, go to:

<http://www.sun.com/servers/x64/x4x50/os.jsp>

For firmware and driver downloads go to:

<http://www.sun.com/servers/x64/x4x50/downloads.jsp>

where x4x50 is x4150, x4250, or x4450.

The following table contains additional references for installing an operating systems and patches.

Operating system:	Read this document:	For patch information, go to:
Preinstalled Solaris OS	<i>Sun Fire X4x50 Server Installation Guide</i>	<ul style="list-style-type: none"> • See the <i>Product Notes</i> for each server. • http://sunsolve.sun.com
Solaris OS	<i>Sun Fire X4150, X4250, and X4450 Servers Linux, VMware, and Solaris OS Installation Guide</i>	
OpenSolaris		
VMware (ESX)	<i>Sun Fire X4150, X4250, and X4450 Servers Linux, VMware, and Solaris OS Installation Guide</i>	http://www.vmware.com/download/
Windows	<i>Sun Fire X4150, X4250, and X4450 Servers Windows OS Installation Guide</i>	http://update.microsoft.com/
Linux	<i>Sun Fire X4150, X4250, and X4450 Servers Linux, VMware, and Solaris OS Installation Guide</i>	<ul style="list-style-type: none"> • Red Hat: https://www.redhat.com/apps/download/ • SUSE: http://download.novell.com/index.jsp

▼ Update Firmware and Drivers

To update supported firmware and drivers on your system, refer to the *Sun Installation Assistant for Windows and Linux User's Guide* or to the *Sun Integrated Lights Out Manager 3.0 User's Guide*.

Documentation for This Product

The following table lists the documentation in the approximate order of the tasks that you might perform when installing a new system. The documentation is cross platform, unless specified otherwise. The most up-to-date versions of the documents are at the Sun documentation web sites:

<http://docs.sun.com/app/docs/prod/sf.x4x50>

where x4x50 is x4150, x4250, or x4450.

For translated versions of the documentation, go to <http://docs.sun.com> and select your language.

Task	Document or Collection Type	Part Number
Review safety information.	Safety and Compliance Manual	X4150: 820-1856 X4250: 820-2704 X4450: 820-2704
	Important Safety Information for Sun Hardware Systems	816-7190
Review known issues and workarounds.	Product Notes	X4150: 820-1854 X4250: 820-4211 X4450: 820-2703
Install and cable the server. Configure the service processor and the preinstalled Solaris or Windows OS.	Installation Guide and Windows Preinstalled Documentation Collection (if your system has Windows OS preinstalled.)	Installation Guide X4150: 820-1851 X4250: 820-4217 X4450: 820-2709

Task	Document or Collection Type	Part Number
If you are not using a preinstalled operating system, install and configure the Solaris, Linux, or Windows OS.	Linux, VMware, and Solaris OS Installation Guide	820-1853
	Windows OS Installation Guide	820-7141
	Sun Installation Assistant User's Guide	820-3357
Configure system utilities.	x64 Servers Utilities Reference Manual	820-1120
Configure installed HBAs.	Sun x64 Server - Disk Management Documentation	n/a
Manage server accounts, monitor alerts, set remote access and redirection, and view component status and event logs.	Sun Integrated Lights Out Manager 3.0 Collection	n/a
	Sun Integrated Lights Out Manager (ILOM) 3.0 Supplement	820-7842
Set BIOS and RAID settings. Service components.	Service Manual	X4150: 820-1852 X4250: 820-4214 X4450: 820-2707
Perform system diagnostics.	Diagnostics Guide	820-4213

Sun Contact Information

Topic	URL
Technical support	http://www.sun.com/service/contacting
Submitting comments on this document	http://www.sun.com/hwdocs/feedback Please include the title and part number of your document with your feedback: <i>Sun Fire X4150, X4250, and X4450 Servers Getting Started Guide</i> (820-7843-10)
Driver and firmware updates	See " Set Up the Platform Operating System, Driver Software, and Firmware. "

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