Sun Blade X6275 M2 Server Module Installation Guide for Windows Operating Systems

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Contents

Using This Documentation

This section describes related documentation, submitting feedback, and a document change history.

Product Information Web Site

For information about the Sun Blade X6275 M2 server module, go to the `http://www.oracle.com/goto/blades` page and click on your server model listed near the bottom.

At that site, you can find links to the following information and downloads:

- Product information and specifications
- Software and firmware downloads

Related Books

The following is a list of documents related to Oracle's Sun Blade X6275 M2 server module. These and additional support documents are available on the web at:

`http://download.oracle.com/docs/cd/E19962-01/`

Document Group	Document	Description
Sun Blade X6275 M2 Server Module Documentation	Sun Blade X6275 M2 Server Module Product Documentation	Integrated HTML version of all starred (*) documents, including Search and Index.
	Sun Blade X6275 M2 Server Module Getting Started Guide	Pictorial setup quick reference.
	Sun Blade X6275 M2 Server Module Installation Guide *	How to install, rack, and configure the server up to initial power-on.
	Sun Blade X6275 M2 Server Module Product Notes *	Important late-breaking information about your server.
	Sun Blade X6275 M2 Server Module Installation Guide for Oracle Solaris Operating Systems *	How to install the Oracle Solaris OS on your server.
	Sun Blade X6275 M2 Server Module Installation Guide for Linux Operating Systems *	How to install a supported Linux OS on your server.
	Sun Blade X6275 M2 Server Module Installation Guide for Windows Operating Systems *	How to install a supported version of Microsoft Windows OS on your server.
	Sun Blade X6275 M2 Server Module Installation Guide for Oracle VM Operating Systems *	How to install a supported version of Oracle VM OS on your server.
	Oracle x86 Servers Diagnostics Guide *	How to diagnose problems with your server.
	Sun Blade X6275 M2 Server Module Service Manual *	How to service and maintain your server.
	Sun Blade X6275 M2 Server Module Safety and Compliance Guide	Safety and compliance information about your server.
	Oracle Integrated Lights Out Manager (ILOM) 3.0 Supplement for the Sun Blade X6275 M2 Server Module *	Version-specific supplemental information for your server's Integrated Lights Out Manager.
Sun Disk Management Documentation	*Sun x64 Server Disk Management Overview*	Information about managing your server's storage.
x64 Servers Applications and Utilities Documentation	*Sun x64 Server Utilities Reference Manual*	How to use the available utilities included with your server.

Document Group	Document	Description
Oracle Integrated Lights Out Manager (ILOM) 3.0 Documentation	*Oracle Integrated Lights Out Manager (ILOM) 3.0 Feature Updates and Release Notes*	Information about new ILOM features.
	Oracle Integrated Lights Out Manager (ILOM) 3.0 Getting Started Guide	Overview of ILOM 3.0.
	Oracle Integrated Lights Out Manager (ILOM) 3.0 Concepts Guide	Conceptual information about ILOM 3.0.
	Oracle Integrated Lights Out Manager (ILOM) 3.0 Web Interface Procedures Guide	How to use ILOM through the web interface.
	Oracle Integrated Lights Out Manager (ILOM) 3.0 CLI Procedures Guide	How to use ILOM through commands.
	Oracle Integrated Lights Out Manager (ILOM) 3.0 Management Protocols Reference Guide	Information about management protocols.

Translated versions of some of these documents are available at the web site described previously in Simplified Chinese, Korean, Japanese, French and Spanish. English documentation is revised more frequently and might be more up-to-date than the translated documentation.

About This Documentation (PDF and HTML)

This documentation set is available in both PDF and HTML. The information is presented in topic-based format (similar to online help) and therefore does not include chapters, appendixes, or section numbering.

A PDF that includes all information on a particular topic subject (such as hardware installation or product notes) can be generated by clicking on the PDF button in the upper left corner of the page.

Note – The "Documentation Information" and "Index" topics do not have associated PDF.

Documentation Comments

Oracle is interested in improving the product documentation and welcomes your comments and suggestions. You can submit comments by clicking the Feedback {+} link on the lower right of any page of the documentation site at: `http://www.oracle.com/technetwork/indexes/documentation/index.html`.

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Change History

The following lists the release history of this documentation set:

- November 2010. Initial publication.
- November 2010. Information added to the *Sun Blade X6275 M2 Server Module Product Notes* for platform software release 1.1. Added new firmware version, PC-Check 6.27s support, CRs 6994690, 6992284, 6994464.
- January 2011. Information added to the Sun Blade X6275 M2 Installation Guide for configuring pre-installed Oracle Solaris or Oracle VM. Information added to the *Sun Blade X6275 M2 Server Module Product Notes* for platform software release 1.2. Added new firmware version, CRs 6971164, 7009654, 7009666, 7010601. Information added to the *Oracle Integrated Lights Out Manager (ILOM) 3.0 Supplement for the Sun Blade X6275 M2 Server Module* for proving physical presence, reading `available_power` in ILOM.

Introduction to Windows Installation

This section provides instructions for tasks you must complete before you begin installing the Windows Server 2008 R2 64-bit operating system onto a Sun Blade X6275 M2 server module.

Note – The Sun Blade X6275 M2 server module consists of two nodes, each with its own service processor (SP), and each capable of supporting its own operating system. These nodes are fully independent of each other, and must be managed as if they were separate servers. Therefore, for each server module, you must perform a separate operating system installation on each node.

This section includes the following topics:

Description	Link
Experienced users: Manually install Windows on your server.	"Getting Started With Windows Server 2008 Installation" on page 11
Advanced users: Create a Windows image file for your server to be use with Windows Deployment Services.	"Incorporating Device Drivers into a WIM Image for WDS" on page 29
Post installation: Install server-specific drivers and supplemental software.	"Updating Critical Drivers and Installing Supplemental Software" on page 23

Getting Started With Windows Server 2008 Installation

This section provides instructions for tasks you must complete before you begin installing the Windows Server 2008 R2 64-bit operating system onto a Sun Blade X6275 M2 server module.

Note – The Sun Blade X6275 M2 server module consists of two nodes, each with its own service processor (SP), and each capable of supporting its own operating system. These nodes are fully independent of each other, and must be managed as if they were separate servers. Therefore, for each server module, you must perform a separate operating system installation on each node.

This section includes the following topics:

Supported Windows Operating Systems

Your server supports the following Microsoft Windows operating systems at the time of publication of this document:

- Microsoft Windows Server 2008 R2, Standard Edition (64-bit)
- Microsoft Windows Server 2008 R2, Enterprise Edition (64-bit)
- Microsoft Windows Server 2008 R2, Datacenter Edition (64-bit)

The updated list of supported operating systems is at the following server-specific URL:

`http://www.oracle.com/goto/x6275m2`

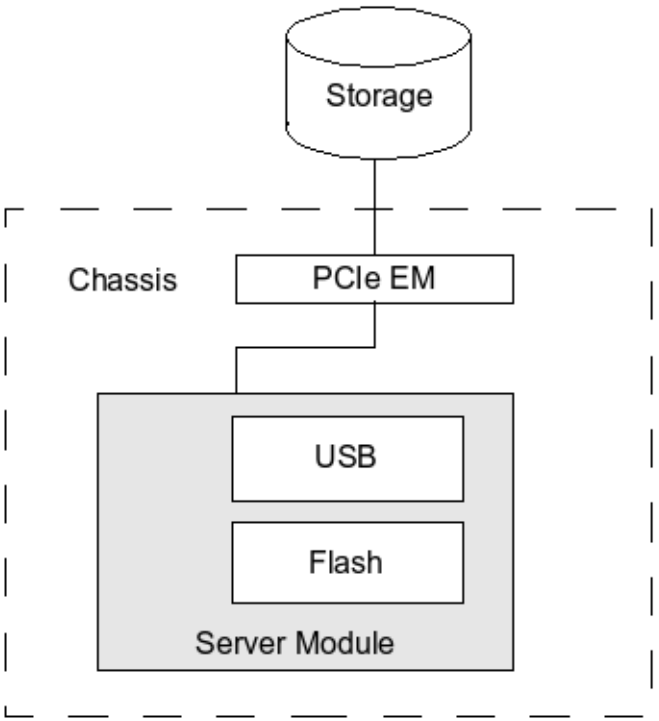
See Also

- "Windows Installation Considerations" on page 12
- "Windows Media Delivery Methods" on page 13
- "Windows Installation Overview" on page 14

Windows Installation Considerations

Please note the following important considerations before beginning the Windows Server 2008 operating system installation on your server.

- When you install the Windows operating system, any data on the boot drive, including any pre-installed operating system, is overwritten.
- After the initial Windows installation, you must install the server-specific driver updates and supplemental software to ensure you have access to the server's full Oracle-tested and supported feature set. See "Updating Critical Drivers and Installing Supplemental Software" on page 23.
- You can install an OS onto a flash module, a USB flash drive, or a storage device connected to a PCIe EM card.



Device	Information
Flash module	The server module includes one Sun Flash Module (FMod) socket per node. When an FMod is present it appears as a disk device and you can install an operating system on it. To install an FMod, refer to the *Sun Blade X6275 M2 Server Module Service Manual*.
USB flash drive	The server module includes one internal USB port per node. When a USB flash drive is present, it appears as a disk device, and you can install an operating system onto it. To install a USB flash drive, refer to the *Sun Blade X6275 M2 Server Module Service Manual*.
PCIe EM device	Each chassis blade slot has two assigned PCIe EM slots. One of these is assigned to each node. If you wish to boot from a storage device connected to a PCIe EM slot, you must configure it to be a boot device. For instructions, refer to your PCIe EM documentation.

See Also

- "Supported Windows Operating Systems" on page 11
- "Windows Media Delivery Methods" on page 13
- "Windows Installation Overview" on page 14

Windows Media Delivery Methods

Media Delivery Method	Additional Requirements
Windows local: Uses a physical CD/DVD drive connected to the server.	An external CD/DVD drive directly connected using a multi-port cable to the server's USB port. Refer to "Using the Multi-Port Cable" in *Sun Blade X6275 M2 Server Module Service Manual*.
Windows remote: Uses a redirected physical CD/DVD drive on a remote system running ILOM Remote Console.	A remote system with a browser, an attached physical CD/DVD drive, a Windows distribution DVD, and network access to the server's management port. To set up this method, refer to "Accessing the Host Console Through ILOM" in *Sun Blade X6275 M2 Server Module Installation Guide*.

Media Delivery Method	Additional Requirements
Windows image: Uses a redirected CD/DVD ISO image on a remote system running ILOM Remote Console.	A remote system with a browser, a Windows CD/DVD ISO image, and network access to the server's management port. To set up this method, refer to "Accessing the Host Console Through ILOM" in *Sun Blade X6275 M2 Server Module Installation Guide*.
WDS WIM image: Uses a customized WIM image on a Windows Deployment Services server.	A server setup and running WDS and a WIM image customized for your server, refer to "Incorporating Device Drivers into a WIM Image for WDS" on page 29.

See Also

- "Supported Windows Operating Systems" on page 11
- "Windows Installation Considerations" on page 12
- "Windows Installation Overview" on page 14

Windows Installation Overview

To manually install Windows Server 2008, complete the following procedures in order:

1. Download required Sun software and server-specific drivers as described in "Downloading Server Software" on page 15.
2. Choose a method for delivering Windows media described in "Windows Media Delivery Methods" on page 13.
3. If you are planning on installing Windows on your server from a remote console, see "Accessing the Host Console Through ILOM" in *Sun Blade X6275 M2 Server Module Installation Guide*.
4. When ready, follow the instructions described in "Installing the Windows Server 2008 R2 Operating System" on page 17.
5. After the initial installation of Windows, follow the instructions described in "Updating Critical Drivers and Installing Supplemental Software" on page 23 to ensure your server is installed with the full Oracle-supported feature set.

See Also

- "Supported Windows Operating Systems" on page 11
- "Windows Installation Considerations" on page 12
- "Windows Media Delivery Methods" on page 13

Downloading Server Software

Server software that contains updated drivers and utilities for your server's hardware components is available from the Oracle web site. This software is required to complete the operating system installation. If a Tools and Drivers CD/DVD was included with your server, you should check the Oracle support site for later a version. If you have the latest Tools and Drivers CD/DVD, you can skip this section.

▼ How to Download Server Software

1 **Go to the software download site for your server.**

`http://support.oracle.com`

   a. **Login with your user name and password (or create an account if you do not have one).**

   b. **Click the Patches & Updates tab.**

   c. **In the Patch Search box, click Product or Family (Adavnced Search).**

   d. **In the Product search text field, type `Sun Blade X6275 M2 Server Module`.**

   e. **Click the Select up to 10 drop-down box for the Release.**

   f. **Select the latest available software release from the list.**

   g. **Click the Search button.**

   h. **Download the Tools & Drivers image.**

2 **Create a DVD from the ISO image.**

3. **When done, mount the DVD and navigate to the Windows directory and do the following:**

   - **If you are installing Windows from distribution media (CD/DVD or ISO image) download `InstallPack_x_x_x.exe` (program to install all server-specific device drivers and supplemental software after the initial installation of Windows.) to an accessible location.**

   - **If you are installing Windows from a WDS deployment server (advanced installation), download `DriverPack_x_x_x.zip` (server-specific driver archive for Windows Server 2008 R2, English-only) to the appropriate Windows image (WIM) folder on the WDS server as described in "Incorporating Device Drivers into a WIM Image for WDS" on page 29.**

4. **Make sure that the driver packages are available, as needed, during the installation and post–installation process.**

Next Steps

- "Updating Critical Drivers and Installing Supplemental Software" on page 23
- "Incorporating Device Drivers into a WIM Image for WDS" on page 29

Installing the Windows Server 2008 R2 Operating System

This section describes how to install the Windows Server 2008 operating system on your server using the Windows Server 2008 distribution media.

Note – If there is a pre-installed operating system on your server's boot disk, the Windows installation will format the boot disk and erase any existing data on it.

- "How to Install Windows Server 2008 R2 Using Local or Remote Media" on page 17

▼ How to Install Windows Server 2008 R2 Using Local or Remote Media

Before You Begin For your chosen Windows media delivery method, refer to the following requirements table.

Method	Action or Items Required
Windows local	Have the Microsoft Windows Server 2008 installation media available to insert in the server-connected CD/DVD-ROM drive when prompted.
Windows remote	Insert the Microsoft Windows Server 2008 installation media into the JavaRConsole system's DVD-ROM drive. Make sure you have selected "CD-ROM" from the ILOM Remote Console **Devices** menu.
Windows image	Ensure that the Windows Server 2008 installation ISO image is accessible from the JavaRConsole system. Make sure you have selected "CD-ROM image" from the ILOM Remote Console **Devices** menu.

1. **Ensure that the installation media is available to boot.**

   For example:

   - For distribution media: Insert the Windows Server 2008 R2 distribution media (CD labeled #1 or the single DVD) into the local or remote USB DVD-ROM drive.
   - For ISO image: Copy the ISO image to a system on which you will access the ILOM remote console feature. After launching the remote console, be sure to mount the ISO image from the ILOM Remote Console **Devices** menu.

2. **Reset or power on the server.**

   For example:

   - **From the ILOM web interface**, select "Control Alt Delete" from the keyboard menu of the JavaRConsole.
   - **From the local server**, press the Power button on the front panel of the server to power off the server, then press the Power button again to power on the server.
   - **From the ILOM CLI on the server SP**, type: **`reset /SYS`**
   - **From the ILOM CLI on a CMM**, type: **`reset /CH/BL`*n*`/SYS`**

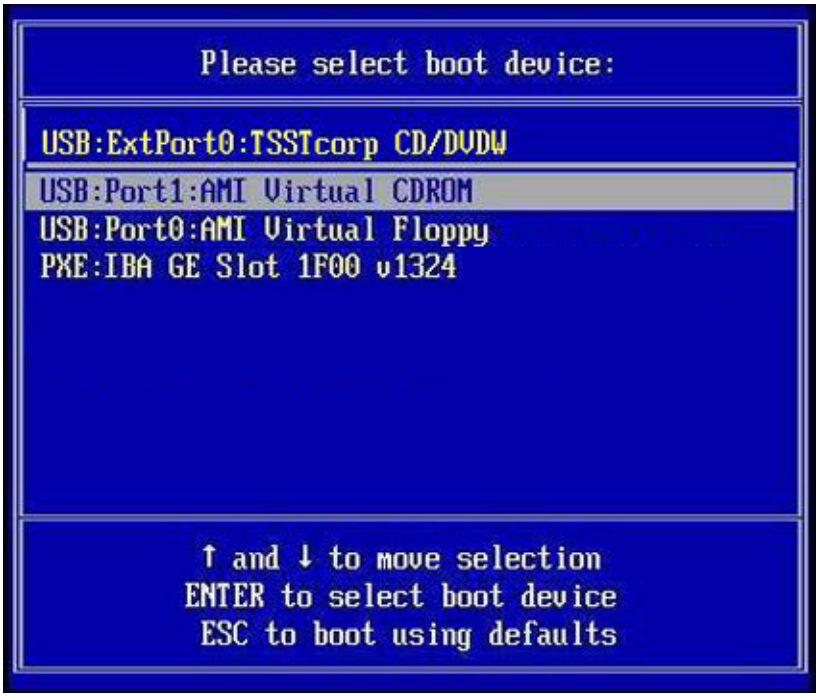
     where *n* is the number of the server module in the chassis.

   The BIOS screen appears.

3. **When you see `Press F8 for BBS POPUP` on the BIOS POST screen, press F8 to select a boot device.**

   The Boot Device dialog box appears.

Note – The dialog box that appears in your installation might be different depending the type of storage and storage controller installed in your server.



4 **In the Boot Device dialog box, select the menu item according to the Windows media installation method you elected to use and press Enter.**

For example:

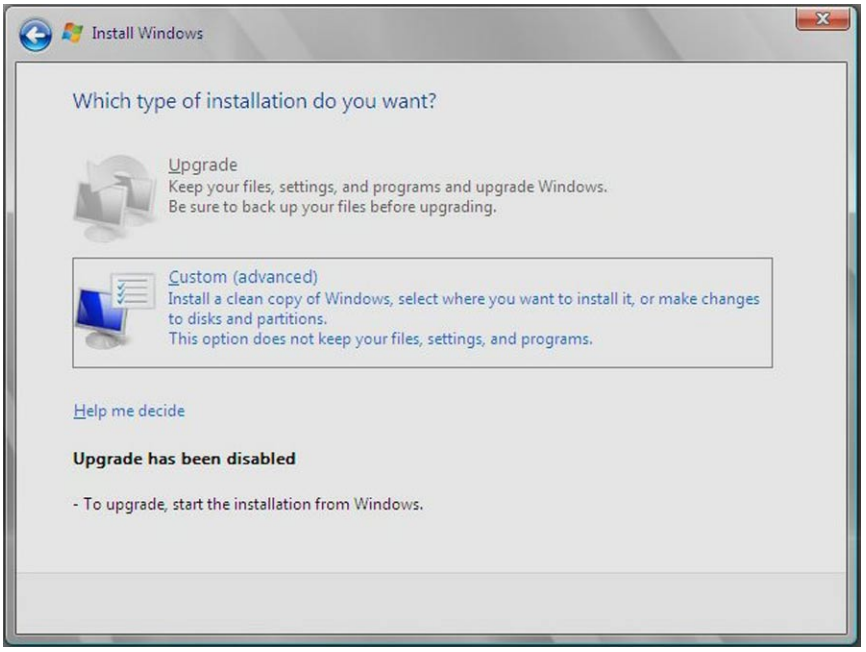
- If you elected to use the Windows Local delivery method, select `CD/DVDW`.
- If you elected to use the ILOM Remote Console delivery method, select `Virtual CDROM`.

5 **When prompted with `Press any key to boot from CD`, press any key.**

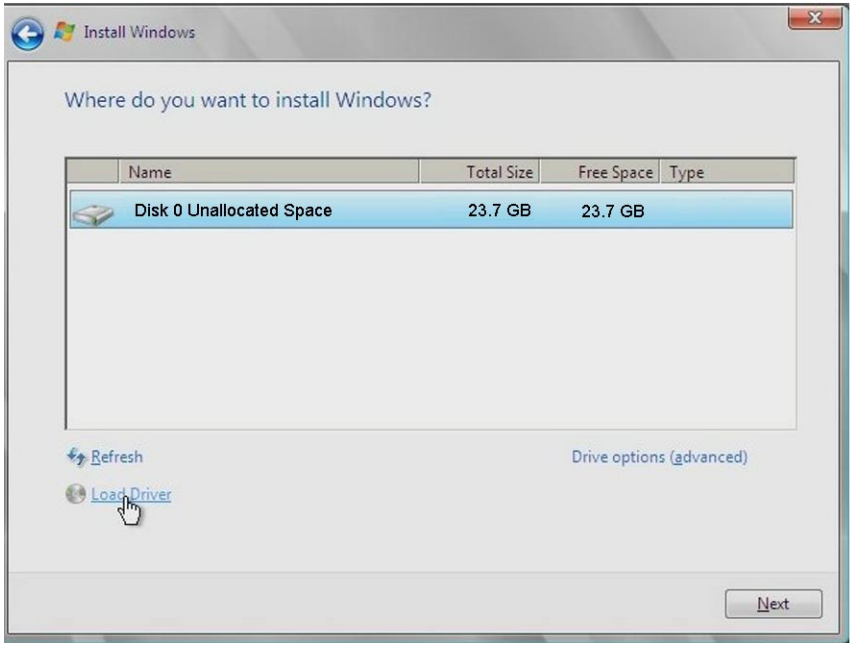
The Windows installation wizard starts.

Continue the Windows installation wizard until the following dialog box appears.

6 Click Custom (advanced).



The dialog box asks where you want to install Windows:



7 **Do one of the following:**

- **If you *do not* want to override the Windows default partition information, click Next, and then skip to Step 9.**
- **If you *do* want to override the Windows default partition information, click the Driver Options (advanced) option and proceed to Step 8.**

Caution – Formatting or re-partitioning a pre-existing partition will destroy all data on the partition.

The Where do you want to Install Windows dialog box appears:

8 **Do the following:**

a. **Click Delete to delete the existing partition.**
   A confirmation window appears.

b. **Click OK to confirm the partition deletion.**

c. **Click New to create the new partition.**

d. Change partition size settings as needed, and then click Apply.

The partition is created.

e. Click Next and proceed to the next step.

The Windows installation begins.

The server reboots multiple times during the installation process. This process can take several minutes.

9 When the Windows installation is complete, Windows starts and prompts you to change the user password.

10 In the user password dialog box, click OK and set up the initial user login account.

Note – Windows Server 2008 R2 enforces strong password schemes for user accounts. Password standards include restrictions on length, complexity, and history. For more details, click the Accessibility link at the account creation page.

After the initial user account is created, the Windows Server 2008 R2 desktop appears.

Next Steps Proceed to "Updating Critical Drivers and Installing Supplemental Software" on page 23.

Updating Critical Drivers and Installing Supplemental Software

After completing the Windows Server installation and rebooting the operating system, review the post installation tasks in the following sections, and if necessary, perform the tasks that are applicable to your system.

Installing Server-Specific Device Drivers

Oracle provides a wizard to install server-specific device drivers and supplemental software for your server. You install these drivers using the wizard, or you can get them directly from the Windows directory on the Tools and Drivers CD/DVD ISO image and install them manually.

Windows Server 2008 R2 requires the following server-specific drivers:

- AST2100.V.90
- Chipset 9.1.1.1027
- 1GbE systems require the Intel network interface driver version 15.5.
- 10GbE systems require the Mellanox ConnectX–2 network interface driver version 1.3.0.

The Oracle Installation Package wizard can be started using one of the following methods:

- By inserting the Tools and Drivers CD/DVD into a DVD drive mounted on the server. The DVD should autorun and display the Tools and Drivers main menu.
- By running the `InstallPack_`*x*`_`*x*`_`*x*`.exe` executable file.

Note – Using a recently downloaded Tools and Drivers CD/DVD or `InstallPack_`*x*`_`*x*`_`*x*`.exe` to update the drivers ensures that you update the server-specific drivers with the latest versions available.

▼ How to Install the Server-Specific Device Drivers

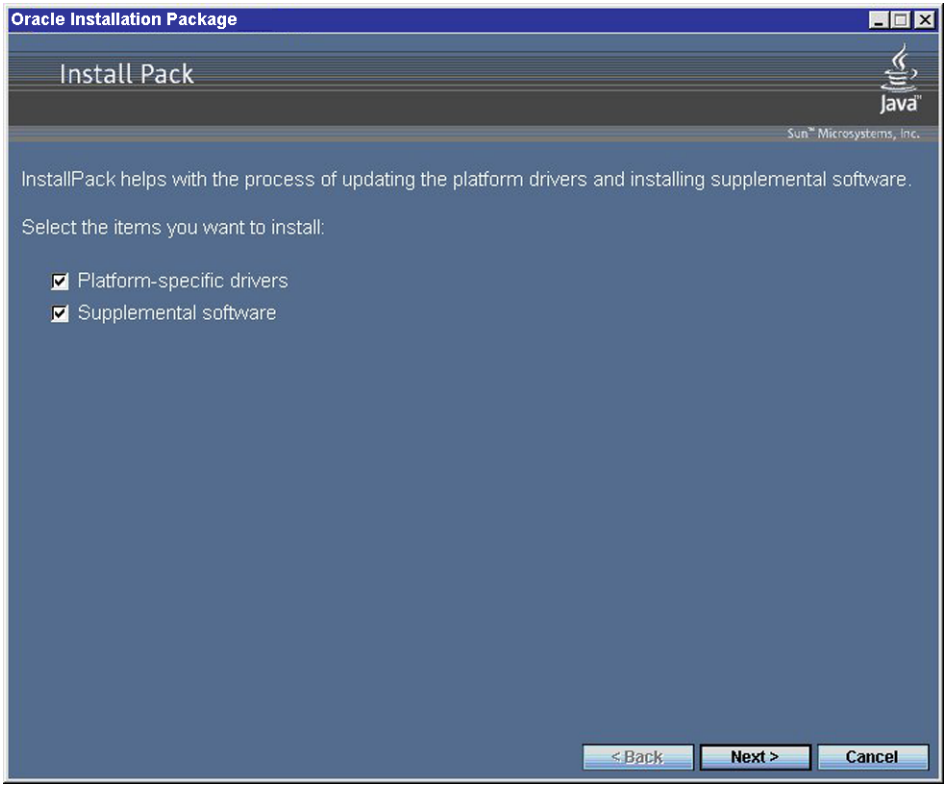
1 Start the Oracle Installation Package software using one of the following methods:

- Access the Tools and Drivers DVD or ISO image using RKVM, a remote DVD drive, or a USB DVD drive.

  The DVD starts automatically.

  At the main menu, select Install Drivers and Supplemental Software.
- If you downloaded the `InstallPack_x_x_x.exe` file from the Oracle download site, ensure that it has been copied to a local drive on the server, and then run the `InstallPack_x_x_x.exe` application.

  The Oracle Installation Package window appears.



2 Click Next to accept the default installable items.

Note – You should always accept the "platform-specific drivers" to ensure that the most recent versions of the drivers are installed.

The Install Pack notice dialog box appears.

3 **In the Install Pack notice dialog box, read the message and then click Next.**

4 **In the End User License Agreement page, select "I accept this agreement", and then click Next.**

The platform-specific drivers are installed. A green check mark verifies that each driver has been successfully installed.

5 **Click Finish.**

A dialog box appears.

Note – If you plan on installing supplemental software (highly recommended), do not restart your system at this time. Once the supplemental software has been installed, you are prompted to restart the system.

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6 **Perform one of the following:**

- If you accepted the default installable settings described in "Installing Server-Specific Device Drivers" on page 23, click No to proceed to "Installing Supplemental Software" on page 26.
- **If you are not installing the supplemental software, click Yes to restart your computer**.

Installing Supplemental Software

During the supplemental software installation wizard, you can choose to install all the supplemental software on your system by selecting a **typical** installation; or, you can individually select the supplemental software to install by selecting a **custom** installation. For instructions for installing the supplemental software, see "How to Install the Supplemental Software" on page 26.

Note – As of this release, no supplemental software installation is required. This section is provided for information and future reference.

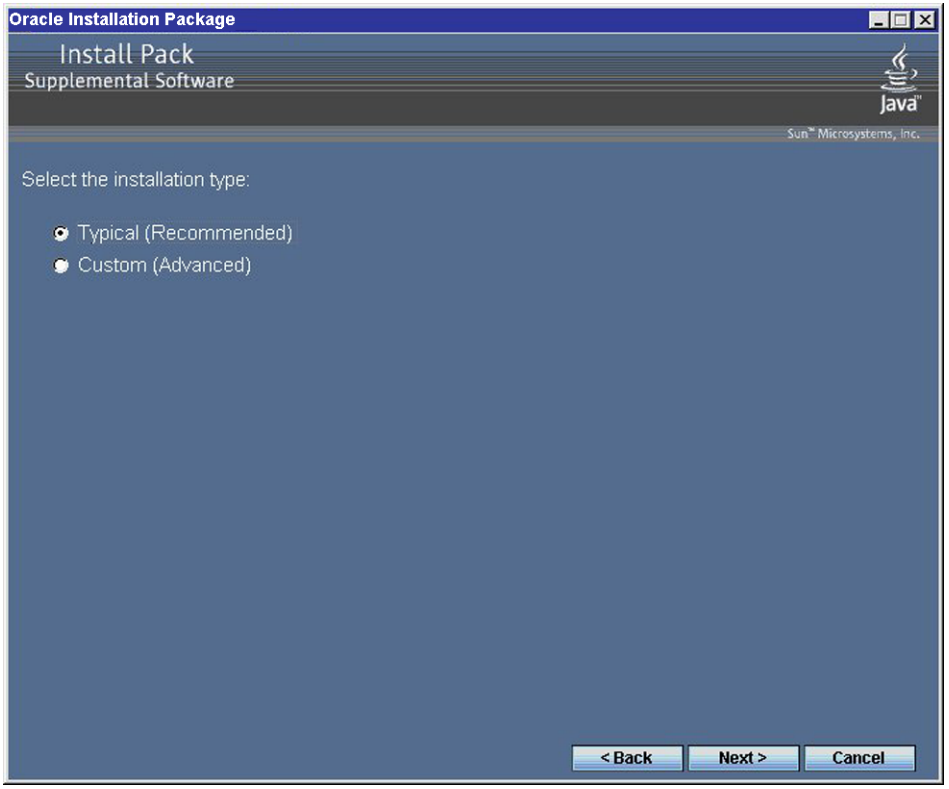
▼ How to Install the Supplemental Software

Before You Begin If you have already installed the supplemental software, running the installation again will not necessarily reinstall the supplemental software. It might result in the components being removed. Carefully review the dialog boxes during supplemental software installation to ensure that the results are as expected.

1 **Do one of the following:**

- If you did *not* select the Supplemental software when you ran the procedure described in "Installing Server-Specific Device Drivers" on page 23, run it again, but this time accept the default settings and select No.

  The Supplemental Software dialog box appears. Proceed to the next step.
- If you did select Supplemental software, and selected No, the following dialog box appears. Proceed to the next step.



2 **In the Install Pack Supplement Software dialog box, click Next to accept the Typical settings, or select Custom to choose the options to install.**

The Component installation wizard will guide you through the installation of each of the selected supplemental software components.

3 **After the supplemental software has been installed, click Finish.**

4 **Click Yes in the System Setting Change dialog box to restart your system.**

If you ran the Installation Package software from the Tools and Drivers DVD, remove the DVD from your system now.

Incorporating Device Drivers into a WIM Image for WDS

This section is for advanced system administrators who deploy Windows Server 2008 R2 over the network using Microsoft Windows Deployment Services (WDS). Information in this section describes how to incorporate Sun Blade X6275 M2 server module server-specific device drivers into a Windows Imaging Format (WIM) file.

Note – This section is not intended as a tutorial for WDS or Microsoft's Windows System Imaging Manager (WSIM). For detailed information about WDS or WSIM, refer to Microsoft's WDS and WSIM documentation.

Topics in this section include:

▼ How to Add Drivers to the WIM Image

Use this procedure to add drivers to the WIM image for 1GbE systems.

Note – For 10GbE systems, you cannot add drivers to the WIM image. Instead you must wait until the OS has been installed, and use the `.msi` tool on the Tools and Drivers CD/DVD ISO image to install the drivers manually.

Before You Begin You should have already obtained the necessary drivers as described in "Downloading Server Software" on page 15.

1. **Extract the contents of Windows Server 2008 R2 `DriverPack_x_x_x.zip` to a network share (for example: *yourshare**share*\DriverPack), making sure to maintain the directory structure.**
2. **Select the service image to update and export the image.**
   a. **Click Start, click Administrative Tools, and then click Windows Deployment Services.**
   b. **Find the image to service. Right-click the image and then choose Disable.**

c. **Right-click the image and choose Export Image. Follow the wizard directions to export the image to the location of your choice.**

3 **Mount the Windows image you just exported. For example:**

```
imagex /mountrw C:\windows_distribution\sources\install.wim 1 C:\win_mount
```

The first Windows image in the `Install.wim` file is mounted to `C:\wim_mount`.

4 **Use Windows System Image Manager (Windows SIM) to create an answer file that contains the paths to the device drivers that you intend to install.**

Refer to the Microsoft documentation for the Windows Automated Installation Kit (AIK) for the details of starting the Windows SIM application.

5 **Add the Microsoft-Windows-PnpCustomizationsNonWinPE component to your answer file in the `offlineServicing` pass.**

6 **Expand the `Microsoft-Windows-PnpCustomizationsNonWinPE` node in the answer file. Right-click `DevicePaths`, and then choose Insert New PathAndCredentials.**

A new PathAndCredentials list item appears.

7 **In the `Microsoft-Windows-PnpCustomizationsNonWinPE` component, specify the path to the architecture folder in the DriverPack folder on the network share, and the credentials used to access the network share.**

For example, the path and credentials for a 64-bit image might be:

```
<PATH>\\yourshare\share\DriverPack\64bit/</Path>
<Credentials>
<Domain>MyDomain</Domain>
<Username>MyUserName</Username>
<Password>MyPassword</Password>
</Credentials>
```

8 **Save the answer file and exit Windows SIM. The answer file must be similar to the following sample. The sample assumes the architecture is 64-bit.**

```
<?xml version="1.0" ?>
<unattend xmlns="urn:schemas-microsoft-com:asm.v3"
xmlns:wcm="http://schemas.microsoft.com/WMIConfig/2002/State">
   <settings pass="offlineServicing">
      <component name="Microsoft-Windows-PnpCustomizationsNonWinPE"
        processorArchitecture="amd64" publicKeyToken="31bf3856ad364e35"
        language="neutral" versionScope="nonSxS">
         <DriverPaths>
            <PathAndCredentials wcm:keyValue="1">
               <Path>\\yourshare\share\DriverPack\64bit</Path>
               <Credentials>
                  <Domain>MyDomain</Domain>
                  <Username>MyUserName</Username>
                  <Password>MyPassword</Password>
               </Credentials>
```

```
            </PathAndCredentials>
          </DriverPaths>
        </component>
    </settings>
</unattend>
```

9 **Use Package Manager to apply the unattended installation answer file to the mounted Windows image. Specify a location for the log file to create. For example:**

```
pkgmgr /o:"C:\wim_mount\;C:\wim_mount\Windows" /n:"C:\
unattend.xml" /l:"C:\pkgmgrlogs\logfile.txt"
```

The `.inf` files referenced in the path in the answer file are added to the Windows image. A log file is created in the directory `C:\Pkgmgrlogs\`.

For more information about using Package Manager, see the Microsoft Windows AIK documentation.

10 **Review the contents of the `%WINDIR%\Inf\` directory in the mounted Windows image to ensure that the `.inf` files were installed.**

Drivers added to the Windows image are named `oem*.inf`. This is to ensure unique naming for new drivers added to the computer. For example, the files `MyDriver1.inf` and `MyDriver2.inf` are renamed `oem0.inf` and `oem1.inf`.

11 **Unmount the `.wim` file and commit the changes. For example:**

```
imagex /unmount /commit C:\wim_mount
```

12 **Replace the service image and enable the image.**

a. **If the Windows Deployment Services snap-in is not running, select Start, select Administrative Tools, and then select Windows Deployment Services.**

b. **Locate the image to service. Right-click the image and choose Replace Image. Follow the Wizard directions to replace the service image with the Windows image that was updated.**

c. **Right-click the service image and choose Enable.**

The service image is now available, and all the server-specific drivers are added to the image.

Next Steps To boot from the WIM image, see "How to Install Windows Server 2008 R2 Using PXE" on page 31.

▼ How to Install Windows Server 2008 R2 Using PXE

Before You Begin Setup your WDS server to deploy installation images over the network. Refer to the Microsoft WDS documentation for details.

To use a WIM image to perform the installation, you must:

- Create the WIM installation image.

  Follow the WIM installation instructions in the Windows Server 2008 R2 documentation.
- Add the required system device drivers to the WIM installation image.

  For instructions, see "Installing Supplemental Software" on page 26.
- Obtain the WIM administrator password.

1 Reset or power on the server. For example, do one of the following:

- From the ILOM web interface, launch the ILOM Remote Console from the Remote Control tab. Select "Control Alt Delete" from the Keyboard menu of the JavaRConsole.
- Press the Power button (approximately 1 second) on the front panel of the blade to turn off the blade, then press the Power button again to turn on the blade.

  The BIOS screen appears.

Note – The next events occur very quickly; therefore, focused attention is needed for the following steps. Watch carefully for these messages as they appear on the screen for a brief time. You might want to enlarge the size of your screen to eliminate scroll bars.

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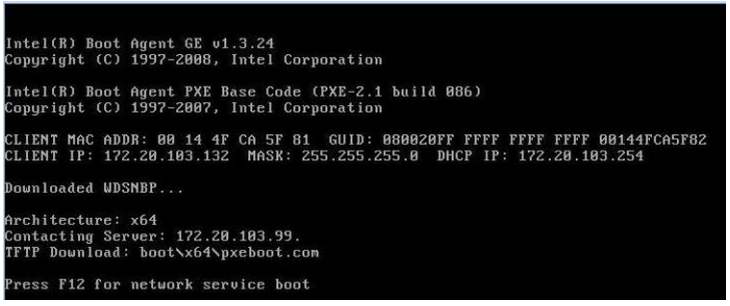
2 Press F8 to specify a temporary boot device.

A dialog box asks you to select a boot device.

3 **Select the appropriate PXE installation boot device and press Enter.**

The PXE installation boot device is the physical network port configured to communicate with your network installation server.

The Boot Agent dialog box appears:



4 **Continue the normal Windows Server 2008 R2 WDS network installation. For additional information, consult Microsoft's Windows Deployment Services product documentation.**

Next Steps To install drivers that cannot be installed using WDS, or to install supplemental software for your server, see "Updating Critical Drivers and Installing Supplemental Software" on page 23.

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