

Dell™ OpenManage™ Software

Quick Installation Guide

Notes and Cautions



NOTE: A NOTE indicates important information that helps you make better use of your computer.



CAUTION: A CAUTION indicates potential damage to hardware or loss of data if instructions are not followed.

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Dell™ systems management software comprises 3 DVDs:

- Dell Systems Management Tools and Documentation DVD
- Dell Server Updates DVD
- Dell Management Console DVD

The *Dell OpenManage Software Quick Installation Guide* provides an overview of the Dell systems management software and also provides installation instructions for the software on the *Dell Systems Management Tools and Documentation DVD*.



NOTE: This document contains information on installing and using the Remote Enablement feature of Dell™ OpenManage™ Server Administrator. It also contains information on using the Dell OpenManage Server Administrator Web Server to manage remote nodes. The Remote Enablement feature is currently supported only on Microsoft® Windows®, Microsoft Hyper-V™, Hyper-V Server, VMware® ESXi, and Citrix™ XenServer™ 5.5 operating systems.

This guide is available in English, French, German, Spanish, Japanese, and Simplified Chinese on the *Dell Systems Management Tools and Documentation DVD* and on the Dell Support website at support.dell.com.

To access product documentation on the *Dell Systems Management Tools and Documentation DVD*, launch **index.htm** located at

<DVD_drive>\docs\<language_directory>. Documentation is also available on the Dell Support website at support.dell.com.

For information about various Dell systems that support systems management software, the operating systems supported by these systems, and the Dell OpenManage components that can be installed on these systems, see the latest *Dell Systems Software Support Matrix* on the Dell Support website at support.dell.com.

Managed System and Management Station

For the purpose of using Dell systems management tools, a system can be classified into:

- Managed System

A managed system is any system that is monitored and managed using Dell OpenManage Server Administrator (one of the systems management tools on the DVD) or Dell Management Console. You can manage systems running Server Administrator locally or remotely through a supported Web browser. For more information on Server Administrator, see "Dell OpenManage Server Administrator".

- Management Station

A management station can be any computer (laptop, desktop, or server) that you can use to remotely manage one or more managed systems from a central location.

Dell Systems Management Tools and Documentation DVD

The *Dell Systems Management Tools and Documentation* DVD contains the following products:

Dell Systems Build and Update Utility

Functionality

You can use the Dell Systems Build and Update Utility to:

- Update your system firmware and install an operating system. See "Installing Your Operating System Using Dell Systems Build and Update Utility".
- Update the firmware and BIOS in a pre-operating system environment on multiple systems.

- Configure your system hardware.
- Create customized bootable ISO images to configure multiple systems.

For information on performing these tasks and details on the Dell Systems Build and Update Utility, see the *Dell Systems Build and Update Utility User's Guide* in the **docs** directory or on the Dell Support website at support.dell.com.

Location on the DVD

<DVD root>

Dell OpenManage Server Administrator

Functionality

Dell OpenManage Server Administrator provides a consolidated and consistent way to monitor, configure, and manage individual Dell systems. Some of the key features include:

- Security management through role-based access control (RBAC), authentication, and encryption
- Ability to review and report the configuration and status of a host-based RAID subsystem

- Rapid access to detailed fault and performance information that is reported in the user interface and extensive logging
- Enhanced features for configuring a system's locally attached RAID and non-RAID disk storage
- Storage management information in an integrated graphical view

For information on installing Server Administrator, see "Installing Systems Management Software on a Managed System".

For details on using Server Administrator, see the *Dell OpenManage Server Administrator User's Guide* in the **docs** directory or on the Dell Support website at **support.dell.com**.

Location on the DVD

```
<DVD_drive>\SYSMGMT\srvadmin
```

Dell Remote Access Controller

Functionality

Dell Remote Access Controller provides remote access to an inoperable system. Dell Remote Access Controller also provides alert notification when a system is down and allows you to remotely

restart a system. Additionally, Dell Remote Access Controller logs the probable cause of system crashes and enables you to save a screen shot of the most recent crash screen.

You can install Dell Remote Access Controller either on the managed system or on the management station.

For information on installing Dell Remote Access Controller on the managed system, see "Installing Systems Management Software on a Managed System". For information on installing the Remote Access Controller on the management station, see "Installing Systems Management Software on a Management Station".

For more information on Remote Access Controller, see the *Dell Remote Access Controller Firmware User's Guide* in the **docs** directory or on the Dell Support website at **support.dell.com**.

Location on the DVD

For managed systems: <DVD_drive>\SYSMGMT\srvadmin

For management stations:

<DVD_drive>\SYSMGMT\ManagementStation

BMC Management Utility

Functionality

BMC Management Utility (BMU) is a utility that provides remote management and configuration of systems equipped with a baseboard management controller (BMC) or iDRAC using the IPMI protocol.

You must install BMU on a management station.

For information on installing the BMU, see "Installing Systems Management Software on a Management Station".

For more information on BMU, see the *Dell OpenManage Baseboard Management Controller Utilities User's Guide* in the docs directory or on the Dell Support website at support.dell.com.

Location on the DVD

```
<DVD_drive>\SYSMGMT\ManagementStation
```

Active Directory Snap-In Utility

Functionality

The Active Directory Snap-in Utility provides an extension snap-in to the Microsoft® Active Directory to manage Dell-specific Active Directory objects. The Dell-specific schema class definitions and

the installation packages for these definitions are also included on the DVD. You can install the Active Directory Snap-in Utility after the Dell-specific schema classes have been added to the Active Directory schema.

You must install the Active Directory Snap-in Utility on a management station.

For information on installing the Active Directory Snap-in Utility, see the *Dell OpenManage Installation and Security User's Guide* in the docs directory or on the Dell Support website at support.dell.com.

Location on the DVD

```
<DVD_drive>\SYSMGMT\ManagementStation
```

Dell Systems Service Diagnostics Tools

Functionality

Dell Systems Service and Diagnostics Tools delivers the latest Dell-optimized drivers, utilities, and operating system-based diagnostics that you can use to update your system.

For information on installing the Dell Systems Service and Diagnostics Tools, see "Updating Drivers and Utilities".

For more information on the Dell Systems Service and Diagnostics Tools, see the *Dell Systems Service and Diagnostics Tools Quick Installation Guide* in the **docs** directory or on the Dell Support website at support.dell.com.

Location on the DVD

<DVD_drive>\SERVICE

Dell Online Diagnostics

Functionality

Dell Online Diagnostics runs operating system-based diagnostics to check the health of your Dell system. Dell Online Diagnostics is available as a utility that you can extract from the Dell Systems Service and Diagnostics Tools and also as a Web-based downloadable on the Dell Support website at support.dell.com.

For information on installing Dell Online Diagnostics, see "Updating Drivers and Utilities".

For more information on Dell Online Diagnostics, see the *Dell Online Diagnostics* in the **docs** directory or on the Dell Support website at support.dell.com.

Location on the DVD

<DVD_drive>\SERVICE

IT Assistant

Functionality

Dell OpenManage IT Assistant provides a central point of access to monitor and manage systems on a network. By allowing an administrator a comprehensive view across the enterprise, IT Assistant can increase system uptime, automate repetitive tasks, and prevent interruption in critical business operations. You must install IT Assistant on a management station.

For information on using IT Assistant, see the *Dell OpenManage IT Assistant User's Guide* on the Dell Support website at support.dell.com.

Dell Server Updates DVD

The Dell OpenManage subscription service kit is a collection of two DVDs:

- *Dell Systems Management Tools and Documentation DVD*
- *Dell Server Updates DVD*

The *Dell Server Updates* DVD is available only to those customers who have subscribed to the subscription service.

The *Dell Server Updates* DVD contains Dell Update Packages (DUPs) and Dell OpenManage Server Update Utility (SUU). DUPs allow administrators to update a wide range of system components simultaneously and apply scripts to similar sets of Dell systems to bring system software components up to the same version levels.

SUU is an application that identifies and applies updates to your system. You can use SUU to update your Dell system or to view the updates available for any system supported by SUU.

In addition to helping you install, configure, and update programs and operating systems, the *Dell Server Updates* DVD also provides newer versions of software for your system.

For more information on DUPs and SUU, see the *Dell Update Packages User's Guide* and the *Dell OpenManage Server Update Utility User's Guide* respectively in the **docs** directory or on the Dell Support website at **support.dell.com**.

For more information on the subscription service, see **www.dell.com/openmanagesubscription** or contact your sales representative.

Dell Management Console DVD

The Dell Management Console is a Web-based systems management software that enables you to discover and inventory devices on your network. It also provides advanced functions, such as health and performance monitoring of networked devices and patch management capabilities for Dell systems.

The *Dell Management Console* DVD is available with all Dell xx0x and later systems. You can also download the Dell Management Console from www.dell.com/openmanage.

Installing Your Operating System

Perform the following steps to determine if an operating system has been installed on your system:

- 1 Start the system.
- 2 Read and accept the software license agreement to continue.

If a message appears and states that bootable drives do not exist or that an operating system was not found, then an operating system has not been installed on your system.

Have your operating system media available and continue with the procedures described in this section.

If an operating system has been preinstalled on your system, it is not necessary to continue with this process. Locate the operating system's installation instructions document provided with your system and follow the instructions to complete the installation process.

You can install an operating system using either the Dell Unified Server Configurator or the Systems Build and Update Utility.

Installing Your Operating System Using Unified Server Configurator

Dell Unified Server Configurator (USC) is an embedded configuration utility that enables systems and storage management tasks from an embedded environment throughout the system's life cycle.

USC resides on an embedded flash memory card, functions independently of the operating system, and can be started during the boot sequence.

You can use USC to:

- Identify, download, and apply system updates without needing to search the Dell Support website (support.dell.com)
- Install an operating system
- Configure BIOS and system devices (such as Network Interface Cards [NICs], RAID, and iDRAC) and rollback BIOS or firmware
- Run diagnostics to validate the system and attached hardware



NOTE: The USC is available only on xx1x systems.

This guide describes in brief the procedure to install an operating system using USC. For detailed information on using USC to install an operating system and perform other systems management tasks, see the *Dell Unified Server Configurator User Guide* on the Dell Support website at support.dell.com.

The first time you boot the system, USC displays the **User Settings** wizard so that you can configure your preferred language and network settings.

- 1 Launch USC by booting the system and pressing the <F10> key within ten seconds of the Dell logo being displayed.
- 2 Click **OS Deployment** on the left pane.
- 3 Click **Deploy OS** on the right pane.
- 4 If your system has a RAID controller, you have the option of launching the RAID Configuration wizard and configuring a virtual disk as the boot device. For information on configuring RAID, see the *Dell Unified Server Configurator User Guide*.
- 5 Select the operating system you want to install and click **Next**.

You may be required to wait as the driver extraction and copy process in the background may take time.



NOTE: All copied drivers are removed after 18 hours. Ensure that you complete the operating system installation within 18 hours for the copied drivers to be available. During the 18-hour period, if you use the F10 key to cancel the operating system installation or to launch USC after rebooting your system, the drivers will be removed.

- 6 Insert the operating system installation media and click **Next**. USC verifies that the installation media is appropriate for the operating system you selected. If the inserted installation media does not match the operating system selection, it will be ejected.
- 7 Click **Finish** to reboot the system and continue with the installation of the operating system. Upon reboot, the system boots to the operating system installation media.

Installing Your Operating System Using Dell Systems Build and Update Utility

- 1 Insert the *Dell Systems Management Tools and Documentation* DVD and restart your system.

The following options are available during system boot:

- **Dell Systems Build and Update Utility**
Takes you to the **Dell Systems Build and Update Utility Home** screen.
- **Optical Media (DVD) Check**
Checks if the DVD is created correctly and validates the content.

- **Skip Optical Media (DVD) Boot - Boot to Hard Drive**
Boots from the hard drive and verifies if an operating system is installed on your system. If an operating system is not installed on your system, boots from the DVD.



NOTE: If you do not select an option within 10 seconds, **Dell Systems Build and Update Utility** is selected by default and the system automatically boots through the DVD.

- **DTK Command Line Interface (Linux)**

Launches the command line interface of Dell OpenManage Deployment Toolkit.



NOTE: This option is available only on Linux systems.

- 2** Click **Configure** against **Server OS Installation** or click **Server OS Installation** on the left-hand pane on the **Dell Systems Build and Update Utility** Home page.
- 3** Follow the step-by-step instructions to configure your hardware and install your operating system.

For additional information about installing RAID, see *Getting Started With RAID* in the **docs** directory.

For more information on using Dell Systems Build and Update Utility, see the *Dell Systems Build and Update Utility User's Guide* in the **docs** directory or on the Dell Support website at support.dell.com.

Post-Installation Guidelines

When installing Microsoft Windows[®] operating systems, some hardware configurations with more than 4 GB of physical memory installed require additional steps after operating system installation to completely utilize all installed memory. For more information on Physical Address Extension (PAE), see:

- www.microsoft.com/windows2000/en/advanced/help/PAE_checklist.htm
- www.microsoft.com/resources/documentation/windowsserv/2003/enterprise/proddocs/en-us/paex86_2.asp
- www.support.microsoft.com/default.aspx?scid=kb;en-us;283037

When you use Dell Systems Build and Update Utility to install an operating system, you can copy the relevant systems management software installation files onto the hard drive. Dell Systems Build and Update Utility creates the **Install Server Administrator** and **Delete Server Administrator Installation Files** icons on the desktop. These icons are created only if you are using the Windows 2003 and Red Hat® Enterprise Linux® operating systems.

You can use the **Install Server Administrator** icon to install Server Administrator without the *Dell Systems Management Tools and Documentation* DVD. On systems running a supported Windows operating system, clicking this icon brings up the standard installation interface. On systems running a supported Red Hat Enterprise Linux operating system, clicking this icon runs the **Server Administrator** custom installation script. If you do not want to install Server Administrator, remove the installation files by clicking the **Delete Server Administrator Installation Files** icon. After you confirm that you want to continue, all Server Administrator files, including the icons, are removed.

Installing Systems Management Software on a Managed System

Beginning Dell OpenManage version 6.1, you can:

- Install the Server Administrator Web Server and the Server Instrumentation on the same system
- Install the Server Administrator Web Server on any system (Dell PowerEdge™ system, laptop, or desktop) and the Server Instrumentation on another supported Dell PowerEdge system

The setup program provides both, a **Custom Setup** option and a **Typical Setup** option.

The custom setup option enables you to select the software components you want to install. Table 1-1 lists the various managed system software components that are installed when you select each option in the custom setup. For details about the custom setup option, see the *Dell OpenManage Installation and Security User's Guide*.



NOTE: Install the SNMP agent on your managed system using your operating system medium before installing the managed system software.

Table 1-1. Managed System Software Components

Component	What is Installed	Deployment Scenario	Systems on Which to be Installed
Server Administrator Web Server	Web-based systems management functionality that allows you to manage systems locally or remotely	Install only the Server Administrator Web Server if you want to remotely monitor the managed system from your system. You need not have physical access to the managed system.	Any system. For example, laptops, desktops, or Dell PowerEdge systems.

NOTE: If you want to remotely manage multiple systems running on Windows and Linux operating systems, it is recommended that you install the Server Administrator Web Server on a Windows operating system.

Table 1-1. Managed System Software Components (continued)

Component	What is Installed	Deployment Scenario	Systems on Which to be Installed
Server Instrumentation	Server Administrator CLI + Instrumentation Service	Install Server Instrumentation to use your system as the managed system. Installing Server Instrumentation and the Server Administrator Web Server installs Server Administrator. You can use Server Administrator to monitor, configure, and manage your system.	Supported Dell PowerEdge systems. For a list of these supported systems, see the <i>Dell Systems Software Support Matrix</i> on the Dell Support website at support.dell.com .

Table 1-1. Managed System Software Components *(continued)*

Component	What is Installed	Deployment Scenario	Systems on Which to be Installed
	NOTE: If you choose to install only Server Instrumentation (without selecting Remote Enablement), you must also install the Server Administrator Web Server.		
Storage Management	Server Administrator Storage Management	Install Storage Management to implement hardware RAID solutions and configure the storage components attached to your system.	Only those systems on which you have installed Server Instrumentation or Remote Enablement.

Table 1-1. Managed System Software Components (continued)

Component	What is Installed	Deployment Scenario	Systems on Which to be Installed
Remote Enablement	Server Administrator CLI + Instrumentation Service + Remote Management	Install Remote Enablement to perform remote systems management tasks. You can install Remote Enablement on your system and install only the Server Administrator Web Server on another system (say, system X). You can then use system X to remotely monitor and manage your system.	Supported Dell PowerEdge systems. For a list of these supported systems, see the <i>Dell Systems Software Support Matrix</i> on the Dell Support website at support.dell.com .

Table 1-1. Managed System Software Components (continued)

Component	What is Installed	Deployment Scenario	Systems on Which to be Installed
		You can use system X to manage any number of systems on which Remote Enablement is installed.	
Remote Access Controller	Server Administrator CLI + Instrumentation Service + iDRAC or DRAC 5, or DRAC 4 (depending on the type of your Dell PowerEdge system)	Install Remote Access Controller to receive e-mail alerts for warnings or errors related to voltages, temperatures, and fan speeds.	Only those systems on which you have installed Server Instrumentation or Remote Enablement.

Table 1-1. Managed System Software Components *(continued)*

Component	What is Installed	Deployment Scenario	Systems on Which to be Installed
		Remote Access Controller also logs event data and the most recent crash screen (available only on systems running Microsoft Windows operating systems) to help you diagnose the probable cause of a system crash.	

Table 1-1. Managed System Software Components (continued)

Component	What is Installed	Deployment Scenario	Systems on Which to be Installed
Intel [®] SNMP Agent	Intel SNMP Agent	Install this SNMP agent to enable Server Administrator obtain information about Intel NICs. This SNMP agent helps identify the Intel NICs.	Only on Dell PowerEdge systems on which Server Instrumentation is installed and which are running on Microsoft Windows operating systems.

Table 1-1. Managed System Software Components (continued)

Component	What is Installed	Deployment Scenario	Systems on Which to be Installed
Broadcom [®] SNMP Agent	Broadcom SNMP Agent	Install this SNMP agent to enable Server Administrator obtain information about Broadcom NICs. This SNMP agent helps identify the Broadcom NICs.	Only on Dell PowerEdge systems on which Server Instrumentation is installed and which are running on Microsoft Windows operating systems.

The **Typical Setup** option automatically installs the following components:

- Server Administrator Web Server
- Server Instrumentation (without Remote Enablement)

- Storage Management
- Remote Access Controller
- Intel SNMP Agent
- Broadcom SNMP Agent

The procedure in this document is based on the **Typical** setup option.

Installing Managed System Software for Supported Microsoft Windows Operating Systems

- 1** Log on with administrator privileges to the system running a supported Windows operating system and on which you want to install the managed system components.
- 2** Verify that your system has a supported browser installed.
- 3** If you have a RAID controller installed on your system and you plan to install the storage management feature, ensure that the device drivers for each RAID controller are also installed.

You can find device drivers in the **SERVICE** directory. You can verify the device driver under Windows by right-clicking **My Computer**, selecting **Manage**, and then clicking **Device Manager**.

- 4 Insert the *Dell Systems Management Tools and Documentation* DVD into the DVD drive.

The setup program should start automatically. If it does not, click the **Start** button, click **Run**, and then type `x:\autorun.exe` (where `x` is the drive letter of your DVD drive).

The **Dell OpenManage Install** autorun menu is displayed.

- 5 Select the **Dell OpenManage Server Administrator** option and click **Install**.

The **Dell OpenManage Server Administrator** prerequisite status screen displays and runs the prerequisite checks for the managed system. Relevant informational, warning, or error messages, if any, are displayed. Resolve all error and warning situations.

- 6 Click the **Install, Modify, Repair, or Remove Server Administrator** button.
- 7 Click **Next** on the **Welcome** screen.
- 8 Accept the License Agreement and click **Next**.

- 9 Select **Typical** and click **Next**.

The setup program displays the list of components that are installed. For information on each of these components see Table 1-1.

- 10 Click **Install** to proceed through the installation process.

The setup program automatically installs all the managed system software for your hardware configuration.

- 11 When the installation is complete, click **Finish** and restart your system, if prompted, before using the software.

Installing Managed System Software for Supported Red Hat Enterprise Linux, SUSE Linux Enterprise Server, and VMware ESX Server Operating Systems

- 1 Log on as `root` to the system running a supported Red Hat Enterprise Linux, SUSE Linux Enterprise Server, or VMware[®] ESX Server[™] operating system where you want to install the managed system components.
- 2 Insert the *Dell Systems Management Tools and Documentation* DVD into the DVD drive.

- 3 If necessary, mount the DVD to a location of your choice using the `mount` command or a similar command.



NOTE: On the Red Hat Enterprise Linux 5 operating system, DVDs are auto-mounted with the `-noexec` mount option. This option does not allow you to run any executable from the DVD. You need to manually mount the DVD-ROM and then run the executables.

- 4 Navigate to the `SYSMGMT/srvadmin/linux/supportscripts` directory. Execute the `srvadmin-install.sh` script as follows:

```
sh srvadmin-install.sh --express
```

or

```
sh srvadmin-install.sh -x
```

The script installs the typical software suite for your system configuration.



NOTE: You can log the output of the RPM installation by adding `2>&1 | tee -a /var/log/srvadmin.log` to the above shell script execution. The resulting command is `sh srvadmin-install.sh 2>&1|tee -a /var/log/srvadmin.log`

- 5 Start the Server Administrator services with the `sh srvadmin-services.sh start` command.

For information about the options that you can use with the `srvadmin -install.sh` script, see the *Dell OpenManage Installation and Security User's Guide*.

You can also download Web packages of versions 6.1 of the Dell OpenManage Server Administrator and Dell OpenManage Management Station software from the Dell Support website at support.dell.com. You can transfer the contents of these Web packages to CDs or USB keys for systems that do not have DVD drives.

Installing Systems Management Software on a Management Station

The **Typical** installation installs DRAC Tools and BMU. To choose the software components for installation or to install other features such as the Active Directory Snap-in Utility, see the **Custom** installation section of the *Dell OpenManage Installation and Security User's Guide*.



NOTE: IT Assistant is no longer a part of the **Typical** installation. For information on installing IT Assistant, see the *Dell OpenManage IT Assistant User's Guide*.

You can install management station and managed system software in the same directory or different directories. You can also select the directory for installation.

Installing Management Station Software on Microsoft Windows Operating Systems

To install applications onto the management station, perform the following steps:

- 1** Log on with administrator privileges to the system where you want to install the management station applications.
- 2** Insert the *Dell Systems Management Tools and Documentation* DVD into the DVD drive.

- 3 Install BMC/RAC by running **setup.exe** located at **ManagementStation\Windows**.

The setup program displays the **Dell OpenManage Management Station** prerequisite status screen and runs the prerequisite checks for the management station. Relevant informational, warning, or error messages, if any, are also displayed. Resolve all error and warning situations.

- 4 Click the **Install, Modify, Repair, or Remove Management Station** button.

Microsoft Windows Installer is launched and the **Welcome** screen is displayed.

- 5 Click **Next**.

The **License Agreement** screen is displayed.

- 6 Select **I Accept** and click **Next**.

The **Setup Type** screen is displayed.

- 7 Select **Typical** and click **Next**.

The **Ready To Install** screen is displayed.

- 8 Click **Install** to accept the selected features and begin installation.

The **Installing Dell OpenManage Management Station** screen is displayed. Messages are displayed, indicating the status and progress of the software components being installed.

When the selected components are installed, the **Install Wizard Completed** dialog box is displayed.

- 9 Click **Finish** to exit the **Dell OpenManage Management Station** installation.

Installing Management Station Software for Supported Red Hat Enterprise Linux, SUSE Linux Enterprise Server, and VMware ESX Server Operating Systems

Only DRAC Tools and BMU are supported on the Red Hat Enterprise Linux, SUSE Linux Enterprise Server, and VMware ESX Server operating systems.



NOTE: On Red Hat Enterprise Linux 5 operating system, DVDs are auto-mounted with the `-noexec` mount option. This option does not allow you to run any executable from the DVD. You need to manually mount the DVD-ROM and then run executables.

To install BMU on the management station, perform the following steps to launch the installation program:

- 1** Log on as `root` to the system where you want to install the management station components.
- 2** If necessary, mount the DVD to a location of your choice using the `mount` command or a similar command.
- 3** Navigate to the `SYSMGMT/ManagementStation/linux/bmc` directory and install the BMU software using the RPM commands specific to the operating system:
 - For systems running Red Hat Enterprise Linux, use:
`rpm -ivh osabmcutil*-RHEL-*.rpm`
 - For systems running SUSE Linux Enterprise Server, use:
`rpm -ivh osabmcutil*-SUSE-*.rpm`

To install the IPMItool component of BMU, navigate to the operating system sub-directory under `SYSMGMT/ManagementStation/linux/bmc/ipmitool` corresponding to your operating system and execute the `rpm -ivh *.rpm` command.

To install the RAC Management Station component, perform the following steps to launch the installation program:

- 1 Log on as `root` to the system where you want to install the management station components.
- 2 If necessary, mount the DVD to a location of your choice using the `mount` command or a similar command.
- 3 Navigate to the `SYSMGMT/ManagementStation/linux/rac` directory and execute the `rpm -ivh *.rpm` command.

You can also download the Web packages of versions 6.1 of the Dell OpenManage Management Station software from the Dell Support website at support.dell.com. You can transfer the contents of these Web packages to CDs or USB keys for systems that do not have DVD drives.

Updating Drivers and Utilities

The **SERVICE** directory in the DVD contains device drivers and utilities that you can use to update your system. Copy the drivers and utilities to either a diskette or to your system's hard drive.

Download the latest product updates, such as drivers and Dell OpenManage applications, from the Dell Support website at support.dell.com.



NOTE: To extract drivers for systems running Red Hat Enterprise Linux or SUSE Linux Enterprise Server operating systems, use the DVD on a system running Windows and then copy or share the selected files to the final destination system.

- 1 Click the **Start** button, click **Run**, and then type `x:\SERVICE\setup.exe` (where x is the drive letter of your DVD drive).
- 2 Select the system, and from the **Select Drivers/Utilities Set**, select the file set that you want to update, and then click **Continue**.
- 3 From the **Drivers and Utilities** page, select the utility or driver file that you want to update by clicking the link for the device name.
The system prompts you for a location in which to save the file. Files are delivered in compressed format. Firmware files normally require diskettes for the extraction.
- 4 Decompress the file.

See the *Dell OpenManage Server Administrator Compatibility Guide* or the *Dell Systems Software Support Matrix* in the **docs** directory for additional information about drivers and Dell OpenManage application versions.

Using Dell OpenManage on VMware ESXi 3.5 Software

In Dell OpenManage version 6.1, you can use Server Administrator to manage a system with VMware ESXi 3.5 update 4 virtualization software. VMware ESXi 3.5 update 4 and the instrumentation agent is factory-installed on some Dell systems. For a list of these systems, see the latest *Dell Systems Software Support Matrix* on the Dell Support website at support.dell.com.

You can install the Server Administrator Web Server on a management station and log on to a managed system pre-installed with VMware ESXi 3.5 update 4 and the instrumentation agent to perform systems management tasks.

For details on installing the Server Administrator Web Server and enabling Server Administrator Services on the managed system (a step specific to VMware ESXi systems), see the *Dell OpenManage Installation and Security User's Guide* in the **docs** directory or on the Dell Support website at **support.dell.com**.

For information about the VMware ESXi 3.5 update 4 virtualization software, see the VMware support website at **www.vmware.com/support**.

Using Dell OpenManage on VMware ESXi 4 Software

VMware ESXi 4 is factory-installed on some Dell systems. For a list of these systems, see the latest *Dell Systems Software Support Matrix* on the Dell Support website at **support.dell.com**.

For systems installed with VMware ESXi 4, Dell OpenManage Server Administrator is delivered in the form of a **.zip** file. The **.zip** file contains Server Instrumentation, Storage Management, and Remote Access Controller. You must download and run the **.zip** file on your managed system. The **.zip** file is available on the Dell Support website at **support.dell.com**.

For details on using the .zip file and enabling Server Administrator Services (a step specific to VMware ESXi systems), see the *Dell OpenManage Installation and Security User's Guide* in the docs directory or on the Dell Support website at support.dell.com.



NOTE: VMware ESXi 4.0 is tentatively scheduled to be available in the second half of 2009. For more information about the VMware ESXi 4.0 release, see www.dell.com/vmware.

Using Dell OpenManage with Citrix XenServer Dell Edition

Dell OpenManage Server Administrator is pre-installed in Citrix® XenServer Dell Edition™, hence no installation steps are required. See the *Citrix XenServer Dell Edition Solution Guide* at <http://support.dell.com/support/edocs/software/Citrix/> for details on using Dell OpenManage with Citrix XenServer Dell Edition.

Installing Dell OpenManage on Microsoft Hyper-V and Hyper-V Server Software

For information on installing Dell OpenManage on Microsoft Hyper-V™ and Hyper-V server, see the *Dell OpenManage Installation and Security User's Guide* in the `docs` directory or on the Dell Support website at support.dell.com.

Security Patches and Hotfixes

It is strongly recommended that you download and install the latest security patches, hotfixes, and service or support packs for your operating system immediately after installation. Downloads for your operating system are available at www.microsoft.com, www.redhat.com, or www.novell.com.

Obtaining Technical Assistance

All the directories in the *Dell Systems Management Tools and Documentation DVD* contain `readme` files, which provide the latest product information.

Compare the contents of your system accessories box with the packing slip or invoice enclosed with your system. If any components are missing or damaged, call Dell within 30 days of the invoice date for a free replacement.

Before contacting Dell for technical assistance, see the Dell Support website at **support.dell.com**. If you need additional technical support, see "Getting Help" in your system's *Hardware Owner's Manual* for country- or region-specific information about contacting Dell by using telephone, fax, and Internet services.

Antes de entrar em contato com a Dell para obter assistência técnica, consulte o site de suporte na Web: **support.dell.com**. Você precisará do número da sua etiqueta de serviço para identificação de seu equipamento. Caso necessite de suporte técnico adicional, é fornecida assistência técnica para hardware ao proprietário original do equipamento. Esse serviço está disponível de segunda a sexta-feira, das 7 às 19:00h, em português. Telefone: 0800-90-3355.

For Dell Enterprise Training and Certification programs, see **www.dell.com/training**. This service may not be offered in all locations.

