Microsoft Windows Server 2012 R2 For Dell EMC PowerEdge Systems
Installation Guide
Notes, cautions, and warnings

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

CAUTION: A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

WARNING: A WARNING indicates a potential for property damage, personal injury, or death.
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Introduction

This document provides information about installing the Microsoft Windows Server 2012 R2 operating system for Datacenter, Standard, Foundation, and Essentials edition.

Setting up preinstalled Microsoft Windows Server 2012 R2 operating system

This section provides information about procedures required for completing the setup of the Microsoft Windows Server 2012 R2 operating system preinstalled on your system.

NOTE: Before you begin, see the documentation that is shipped with the operating system for important product information. For more information about completing the installation, see that the documentation included with your software or go to Support.microsoft.com.

To set up your Windows Server 2012 R2 operating system for Datacenter, Standard, Foundation, and the Essentials edition:

1. Connect the keyboard, monitor, mouse, network cable, power cord, and other peripherals to your system.
2. Turn on your system.
   The Out Of Box Experience screen is displayed.
3. Select the appropriate language, and then click Next to complete the installation.
4. Select your Country or Region, Language, and the Keyboard layout, then and click Next.
   The system prompts you to change the administrator password before logging in for the first time.
5. Select the I accept the license terms for Windows and this computer option, and then click Accept.
   NOTE: You cannot proceed with the installation if you do not accept the license terms for Windows.
   NOTE: Before using your system, read the software license agreements, which are included with each program that you have ordered.
6. Type the administrator password and click Finish.
   NOTE: This procedure may take several minutes to complete.
   NOTE: The password must conform to the password complexity rules. For more information about password complexity rules, see the operating system documentation at Password Policy.
   The password is changed, and you can log in by using the new password. A Dell EMC customized help file is displayed with various values added scripts or add-ins provided with your system.
7. Read the help file and click Proceed.
8. Use the password set in step 6 to log in to your system.
   The Server Manager Dashboard is displayed. Use the dashboard to configure your system with different roles and features.
9. To configure your system for Windows Server 2012 R2 Essentials edition:
   a. After rebooting the system, the Set Up Windows Server 2012 R2 Essentials screen is displayed. Click Change system date and time settings to select the date, time, and time zone settings for your server, and click then Next.
      The Choose Server Installation Mode screen is displayed.
   b. On the Choose Server Installation Mode screen, select the appropriate installation mode, and provide the required data. For a new installation select Clean install. Proceed with required inputs to configure your install.
For detailed steps on configuring your Windows Server 2012 R2 Essentials install, go to Technet.microsoft.com/en-us/sbs/jj159331.aspx

1. Create the Administrator user account and Standard user account and complete the installation.
2. On the Settings screen, enter the password, confirm the password, and click Finish.
3. The system is locked now, and you can log in to the system by pressing Ctrl+Alt+Delete.
4. Type the administrator password, and then press Enter to log in to the system.

The operating system installation is now complete.
Installing and reinstalling Microsoft Windows Server 2012 R2

You can use one of the following methods to install the Microsoft Windows Server 2012 R2 operating system, if you do not have it installed on your server or if you wish to reinstall it:

- Install Windows Server 2012 R2 by using the Dell OpenManage 7.4
- Install Windows Server 2012 R2 by using the Dell LifeCycle Controller
- Installing the Operating System using the Windows Server 2012 R2 Media

Topics:
- Using the Dell OpenManage 7.4
- Install Windows Server 2012 R2 by using Dell LifeCycle Controller
- Install Windows Server 2012 R2 by using operating system media
- Appendix—Partitioning a drive
- Choosing between partition schemes
- Operating system support matrix for the Dell EMC PowerEdge systems

Using the Dell OpenManage 7.4

⚠️ **CAUTION**: Backup all data from the system before installing or upgrading the operating system.

⚠️ **NOTE**: Dell OpenManage 7.4 provides the latest drivers for Windows Server 2012 R2 and complete support for Windows Server 2012 R2 Standard, Foundation, Datacenter, and Essentials edition.

⚠️ **NOTE**: This method of installation is supported in both BIOS and UEFI modes.

You must configure the system to boot from the optical drive. To install the operating system using the Dell EMC Systems Management Tools and Documentation media:

1. Connect the keyboard, monitor, mouse, and any additional peripherals to your system.
2. Turn on the system and the attached peripherals.
3. Insert the Dell Systems Management Tools and Documentation media into the optical drive.
4. Press <F2> when you are prompted to run the setup utility.
   
   The BIOS Settings screen is displayed.

   ⚠️ **NOTE**: You can press <F11> and directly boot from the DVD ROM and skip to step 7.

5. Using the arrow keys, scroll to the Boot setting > Boot Sequence field and press <Enter>.
6. Configure the DVD ROM drive to be the first boot option and press <Esc> to exit the BIOS Settings screen.
   
   The system now prepares to boot from the optical drive.

   The Dell EMC Systems Management Tools and Documentation media menu launches with several options.

7. Select Dell Systems Build and Update Utility.
   
   The system now boots from the selected option and the Dell EMC Systems Build and Update Utility screen is displayed.
NOTE: This may take several minutes depending on the speed of the drive.

8 In the **Welcome to the Dell Systems Build and Update Utility** section, select the language when prompted. Read and accept the Dell EMC software License agreement.

9 In the **Systems Build and Update Utility** home page, select **Configure against Server OS Installation**.

10 Set the time and time zone and click **Continue**.

The Select Operating System screen is displayed with a list of compatible operating systems.

11 Choose **Microsoft Windows Server 2012 R2**.

12 Click **Continue**.

The Select RAID Configuration screen is displayed. If RAID has been configured, the screen displays the existing RAID configuration details.

13 Select **Retain existing configuration on the system**. If RAID is not configured, you can configure it at this time and click **Continue**.

The Operating System Installation Summary screen is displayed, with the installation options that you have selected.

14 Click **Back** to change the installation options. If the options displayed are accurate, click **Apply Now**.

The operating system installation begins.

**CAUTION:** The Dell Systems Build and Update Utility screen prompts you to remove the media after all the installation settings are finalized. Remove the Dell Systems Management Tools and Documentation media. The system reboots to local hard drives and then prompts for the Windows installation media. Do not boot directly to the optical drive at this stage.

15 Insert the Windows installation media in the optical drive and click **OK**.

If the correct media for installation is found during installation, the following message is displayed: **Valid Operating System installation media was found.**

16 Press **OK** to continue with installation.

**CAUTION:** All system partitions are erased along with all data on the local hard drives.

17 Select the appropriate language that you want to deploy.

18 In the **Windows Setup** screen, select the appropriate option for **Language**, **Time and Currency Format**, and **Keyboard or Input Method**.

19 Click **Next** to continue.

On the next screen, click **Install Now**.

**NOTE:** In Windows Server 2012 Essentials edition, on clicking **Install Now**, the License terms window is displayed.

20 In the **Operating System Install** screen, select the appropriate operating system you want to install. Click **Next**.

The License Agreement window is displayed. Read the information carefully. If you agree with all of the information, select **I accept the license terms**.

21 Click **Next**.

22 In the **Which Type of Installation Do You Want** screen, click **Custom: Install Windows only (advanced)**, if it is not selected already.

23 In the **Where do you want to install Windows** screen, specify the partition on which you want to install the operating system.

To create a partition and begin installation:

a Click **Drive options (advanced) > New**.

b Specify the size of the partition in MB, and click **Apply**. The following message is displayed: **To ensure that all Windows features work correctly, Windows might create additional partition for system files.**

c Click **OK**.

**NOTE:** The recommended minimum partition size for the Primary partition is 50 GB. If you are installing additional memory on your system, you may require additional primary partition space to accommodate page file and hibernation. During installation, a recommended partition size is displayed on the screen based on the memory size of your system. Follow the instructions on the screen. If you select Core installation, you may require less hard drive space for the Primary partition. For information on drive partitioning see "Partitioning a Drive."
Select the newly-created operating system partition and click **Next**. The **Installing Windows** screen is displayed and the installation process begins.

After the operating system is installed, the system reboots. You must set the administrator password before you can log in for the first time.

To configure your system for Windows Sever 2012 R2 Essentials edition:

1. **NOTE:** For Windows Sever 2012 R2 Essentials edition, after the installation is complete you must configure the system before setting the administrator password.

   a. After reboot, the **Set Up Windows Server 2012 R2 Essentials** page is displayed. Click **Change system date and time settings** to select the date, time, and time zone settings for your server and click **Next**.

   b. On the **Choose server installation mode** page, select the appropriate installation mode and provide the required data. For a new installation select **Clean install** and to migrate from an existing operating system select **Server migration**. Proceed with required inputs to configure your install.

   For detailed steps on configuring your Windows Server 2012 R2 Essentials install, see technet.microsoft.com/en-us/sbs/jj159331.aspx

   c. Create the **Administrator user account** and **Standard user account** and complete the installation.

2. Set the administrator password before you can log in for the first time.

3. In the **Settings** screen, enter the password, confirm the password, and click **Finish**.

The operating system installation is complete.

**Install Windows Server 2012 R2 by using Dell LifeCycle Controller**

To install Microsoft Windows Server 2012 R2 for Standard, Datacenter, Foundation, and the Essentials edition by using the LifeCycle Controller:

1. Connect the keyboard, monitor, mouse, and any additional peripherals to your system.

2. Turn on the system and attached peripherals.

3. Press F10 in the POST to start the **System Services**.

   For Dell’s 11th generation of the PowerEdge servers, the following messages are displayed:

   Initializing UEFI. Please wait...

   and

   Entering System Services...Starting LifeCycle Controller

   For Dell’s 12th generation of the PowerEdge servers, the following message is displayed:

   Entering Lifecycle Controller

4. In the **LifeCycle Controller** window, click the appropriate option if you want to configure hardware, diagnostics, or set changes. If no changes are required, select **OS Deployment**.

5. In the **Operating System Deployment** window, click **Deploy OS**.

   The **Configure or Skip RAID** window is displayed. If Redundant Array of Independent Disks (RAID) is configured, the window displays the existing RAID configuration details.

6. Select **Go Directly to OS Deployment**.

   If RAID is not yet configured, configure currently.

7. Click **Next**.

   The **Select Operating System** window is displayed with a list of compatible operating systems.

8. Select **Microsoft Windows Server 2012 R2**, and then click **Next**.

   **NOTE:** If Microsoft Windows Server 2012 R2 is not listed, select **Any Other Operating System** and click **Next**.

9. Select whether you want to deploy the operating system in UEFI or BIOS mode, and click **Next**.
In the **Insert OS Media** window, insert the Windows Server 2012 R2 media, and then click **Next**.

On the **Reboot the System** screen, follow the instructions on the screen, and then click **Finish**.

If a Windows operating system is installed on your system, the following message is displayed:

Press any key to boot from the CD/DVD...Press any key to begin the installation.

On the **Windows Setup** screen, select the appropriate option for **Language, Time and Currency Format**, and **Keyboard or Input Method**.

Click **Next** to continue.

On the **Microsoft Windows Server 2012 R2** screen, click **Install Now**.

**NOTE:** In Windows Server 2012 R2 Essentials edition, on clicking **Install Now**, the License terms window is displayed.

The **Operating System Install** screen is displayed.

On the **Operating System Install** screen, select the operating system, and then click **Next**.

The **License terms** window is displayed.

Read the license agreement information. If you agree with all the information, select **I accept the license terms** and click **Next**.

On the **Which Type of Installation Do You Want** screen, select **Custom: Install Windows only (advanced)**, if it is not selected already.

On the **Where do you want to install Windows** screen, specify the partition on which you want to install the operating system.

To create a partition and begin installation:

a. Click **New**.

b. Specify the size of the partition in MB, and click **Apply**.

   The following message is displayed:

   Windows might create additional partition for system files

   **NOTE:** The recommended minimum partition size for the primary partition is 40 GB and for the Essentials Edition is 60 GB. If you are installing extra memory on your system, you may require more primary partition space to accommodate page file and hibernation. During installation, a recommended partition size is displayed on the screen based on the memory size of your system. Follow the instructions on the screen. If you select Core installation, you require less hard drive space for the primary partition.

c. Click **OK**.

d. Select the newly created operating system partition, and click **Next**. The **Installing Windows** screen is displayed, and the installation process begins.

After the operating system is installed, the system reboots. Set the administrator password before you can log in for the first time.

On the **Settings** screen, enter the password, confirm the password, and then click **Finish**.

To configure your system for Windows Server 2012 R2 Essentials edition:

a. After reboot, the **Set Up Windows Server 2012 R2 Essentials** page is displayed. Click **Change system date and time settings** to select the date, time, and time zone settings for your server, and then click **Next**.

   The **Choose Server Installation Mode** screen is displayed.

b. On the **Choose Server Installation Mode** screen, select the appropriate installation mode, and provide the required data. For a new installation select **Clean install**. Proceed with required inputs to configure your install.


c. Create the **Administrator user account** and **Standard user account** and complete the installation.

On the **Settings** screen, type the password, confirm the password, and then click **Finish**.

The system is locked now, and you can log in to the system by pressing Ctrl+Alt+Delete.

Type the administrator password, and then press Enter to log in to the system.

The operating system installation is complete.
Install Windows Server 2012 R2 by using operating system media

To install the Microsoft Windows Server 2012 R2 operating system for Standard, Datacenter, Foundation, and the Essentials edition:

1. Connect a keyboard, monitor, mouse, and any additional peripherals to your system.
2. Turn on your system and any attached peripherals.
   Several BIOS screens are displayed during startup, but do not require any user intervention.
   
   **NOTE:** This method of installation is supported in the BIOS and UEFI modes.

3. Insert the Microsoft Windows Server 2012 R2 media into the DVD drive.
   The following message is displayed:
   
   Loading Files

   **NOTE:** If a Windows operating system is installed on your system, the following message is displayed:
   
   Press any key to boot from the CD/DVD ... Press any key to begin the installation

4. After the files are loaded, click the appropriate language that you want to deploy.

5. On the Windows Setup screen, select the appropriate Language, Time & Currency, and the Keyboard or Input values, and then click Next.

   The Operating System Install screen is displayed.

   **NOTE:** In Windows Server 2012 R2 Essentials edition, on clicking Install Now, the License terms window is displayed.

7. On the Select the operating system you want to install screen, select the operating system from the available list, and click Next.
   The license terms window is displayed.

8. Read through the license agreement information. If you agree with all the information, select I accept the license terms, and then click Next.

9. On the Which type of installation do you want screen, select Custom: Install Windows only (advanced) if it is not selected already.

10. On the Where do you want to install Windows screen, specify the partition on which you want to install the operating system.

    To create a partition and begin installation:
    a. Click Drive options (advanced) > New.
    b. Specify the size of the partition in MB, and click Apply. The following message is displayed:
       To ensure that all Windows features work correctly, Windows might create additional partition for system files
    c. Click OK.

    **NOTE:** The recommended minimum partition size for the Primary partition Standard, Datacenter, Foundation Edition is 40 GB and for the Essentials Edition is 60 GB. If you are installing extra memory on your system, you may require more primary partition space to accommodate page file and hibernation. During installation, a recommended partition size is displayed on the screen based on the memory size of your system. Follow the instructions on the screen. If you select Core installation, you may require less hard drive space for the Primary partition. For information on drive partitioning see the Partitioning a drive section.

11. Select the newly-created operating system partition, and click Next.

    After the operating system is installed, the system reboots. Set the administrator password before you can log in for the first time.

    **NOTE:** For Windows Server 2012 R2 Essentials edition, after the installation is complete you must configure the system before setting the administrator password.

12. To configure your system for Windows Server 2012 R2 Essentials edition:
    a. After reboot, the Set Up Windows Server 2012 R2 Essentials page is displayed. Click Change system date and time settings to select the date, time, and time zone settings for your server and click Next.

    The Choose server installation mode page is displayed.
b On the **Choose server installation mode** page, select the appropriate installation mode, and provide the required data. For a new installation, select **Clean install**. Proceed with required inputs to configure your install.


c Create the **Administrator user account** and **Standard user account** and complete the installation.

13 On the **Settings** screen, type the password, confirm the password, and click **Finish**.

The system is locked.

14 The system is locked now, and you can log in to the system by pressing Ctrl+Alt+Delete.

15 Type the administrator password, and then press Enter to log in to the system.

The operating system installation is complete.

**NOTE:** After you log in to the system, you can use the Server Manager Dashboard to configure and manage different roles and features in the operating system.

### Appendix—Partitioning a drive

Drive partitioning allows you to divide a physical hard drive into multiple virtual hard drives. Each virtual hard drive is called a partition. There are two types of partition schemes:

- Master Boot Record scheme
- GUID Partition Table scheme

#### Master boot record scheme

Master boot record (MBR) scheme is a legacy partition scheme that can be used by most operating systems. The total data storage space of a computer hard drive is divided into at a maximum four primary partitions.

#### GUID partition table scheme

GUID partition table (GPT) scheme is a new standard for the layout of the partition table on a physical hard drive. It is part of the extensible firmware interface (EFI) standard, which is a replacement for the system BIOS.

#### Choosing between partition schemes

**NOTE:** To change your partition scheme from BIOS to UEFI and vice versa during POST, press F2, select **Boot Settings**, and press Enter. Change the value of Boot Mode to BIOS or UEFI. For more information, follow steps 1–8 in the Install Windows Server 2012 R2 by using the Dell LifeCycle Controller section.

The main considerations for choosing between the partition schemes are:

- Hard drive size
- Operating system version
- Software tools used in the operating system

The MBR partition scheme is used across older versions of the Microsoft operating systems. MBR partitioning scheme supports a volume size smaller than 2 TB. Use the GPT partition scheme for newer operating systems such as Microsoft Windows Server 2012 R2, Windows Server 2008 R2, Windows Server 2008, and hard drive sizes larger than 2 TB.

**NOTE:** GPT boot (UEFI boot) is supported only on 11th generation of the PowerEdge servers or later.

**NOTE:** Dell EMC recommends that you use the GPT partition scheme as it is more flexible, supports larger hard drive sizes, and has some features and recovery mechanisms that are not available in the MBR partition scheme.
For more information about partitions and volumes, see partitions and volumes at [Technet.microsoft.com](https://technet.microsoft.com). For information about GPT, see the Windows and GPT frequently asked questions at [Microsoft.com](https://microsoft.com).

**Operating system support matrix for the Dell EMC PowerEdge systems**

Windows Server OS can only be installed on certain Dell EMC PowerEdge systems. For a list of the Dell EMC supported PowerEdge systems and OS combinations, see the Operating System Support Matrix for Dell EMC PowerEdge Systems at [Dell.com/ossupport](https://dell.com/ossupport).

**Supported Microsoft Windows videos for Dell EMC PowerEdge systems**

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<thead>
<tr>
<th>Video title</th>
<th>Links</th>
</tr>
</thead>
<tbody>
<tr>
<td>Downloading the driver for Windows from the Dell support site</td>
<td><a href="https://www.youtube.com/watch?v=r55q4HuyskM">www.youtube.com/watch?v=r55q4HuyskM</a></td>
</tr>
<tr>
<td>Installing Microsoft Windows 2012 R2 operating system in UEFI mode manually</td>
<td><a href="https://www.youtube.com/playlist?list=PLe5xhhyFjDPfTCAfDRfB_VsoLpL8x84G">https://www.youtube.com/playlist?list=PLe5xhhyFjDPfTCAfDRfB_VsoLpL8x84G</a></td>
</tr>
<tr>
<td>Installing Windows 2012 R2 operating system by using Lifecycle Controller</td>
<td><a href="https://www.youtube.com/playlist?list=PLe5xhhyFjDPfTCAfDRfB_VsoLpL8x84G">https://www.youtube.com/playlist?list=PLe5xhhyFjDPfTCAfDRfB_VsoLpL8x84G</a></td>
</tr>
<tr>
<td>OS Deployment - Unattended Installation using USB drive</td>
<td><a href="https://www.youtube.com/playlist?list=PLe5xhhyFjDPfTCAfDRfB_VsoLpL8x84G">https://www.youtube.com/playlist?list=PLe5xhhyFjDPfTCAfDRfB_VsoLpL8x84G</a></td>
</tr>
</tbody>
</table>
Getting help

Topics:

- Contacting Dell EMC
- Documentation resources
- Downloading the drivers and firmware
- Documentation feedback

Contacting Dell EMC

Dell EMC provides several online and telephone based support and service options. If you do not have an active internet connection, you can find contact information about your purchase invoice, packing slip, bill, or Dell EMC product catalog. Availability varies by country and product, and some services may not be available in your area.

To contact Dell EMC for sales, technical assistance, or customer service issues:

1. Go to Dell.com/support.
2. Select your country from the drop-down menu on the lower right corner of the page.
3. For customized support:
   a. Enter your system Service Tag in the Enter your Service Tag field.
   b. Click Submit.
      The support page that lists the various support categories is displayed.
4. For general support:
   a. Select your product category.
   b. Select your product segment.
   c. Select your product.
      The support page that lists the various support categories is displayed.
5. For contact details of Dell EMC Global Technical Support:
   a. Click Global Technical Support.
   b. The Contact Technical Support page is displayed with details to call, chat, or email the Dell EMC Global Technical Support team.

Documentation resources

This section provides information about the documentation resources for your server.

Table 2. Additional documentation resources for your server

<table>
<thead>
<tr>
<th>Task</th>
<th>Document</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Setting up your server</td>
<td>For information about installing the server into a rack, see the Rack documentation included with your rack solution Or the Getting Started</td>
<td>Dell.com/poweredgemanuals</td>
</tr>
</tbody>
</table>


<table>
<thead>
<tr>
<th>Task</th>
<th>Document</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>With Your System</td>
<td><em>With Your System</em> document that is shipped with your server.</td>
<td>Dell.com/powereddemanuals</td>
</tr>
<tr>
<td>For information about turning</td>
<td>For information about turning on the server and the technical specifications of your server, see the <em>Getting Started With Your System</em> document that is shipped with your server.</td>
<td>Dell.com/powereddemanuals</td>
</tr>
<tr>
<td>Configuring your server</td>
<td>For information about the iDRAC features, configuring and logging in to iDRAC, and managing your server remotely, see the Integrated Dell Remote Access Controller User’s Guide.</td>
<td>Dell.com/idracmanuals</td>
</tr>
<tr>
<td>For information about installing the operating system, see the operating system documentation.</td>
<td>For information about installing the operating system, see the operating system documentation.</td>
<td>Dell.com/operatingsystemmanuals</td>
</tr>
<tr>
<td>For information about understanding Remote Access Controller Admin (RACADM) subcommands and supported RACADM interfaces, see the RACADM Command Line Reference Guide for iDRAC.</td>
<td>For information about understanding Remote Access Controller Admin (RACADM) subcommands and supported RACADM interfaces, see the RACADM Command Line Reference Guide for iDRAC.</td>
<td>Dell.com/idracmanuals</td>
</tr>
<tr>
<td>For information about updating drivers and firmware, see the Methods to download firmware and drivers section in this document.</td>
<td>For information about updating drivers and firmware, see the Methods to download firmware and drivers section in this document.</td>
<td>Dell.com/support/drivers</td>
</tr>
<tr>
<td>Managing your server</td>
<td>For information about servers management software offered by Dell, see the Dell OpenManage Systems Management Overview Guide.</td>
<td>Dell.com/openmanagemanuals</td>
</tr>
<tr>
<td>For information about setting up, using, and troubleshooting OpenManage, see the Dell OpenManage Server Administrator User’s Guide.</td>
<td>For information about setting up, using, and troubleshooting OpenManage, see the Dell OpenManage Server Administrator User’s Guide.</td>
<td>Dell.com/openmanagemanuals</td>
</tr>
<tr>
<td>For information about installing, using, and troubleshooting Dell OpenManage Essentials, see the Dell OpenManage Essentials User’s Guide.</td>
<td>For information about installing, using, and troubleshooting Dell OpenManage Essentials, see the Dell OpenManage Essentials User’s Guide.</td>
<td>Dell.com/openmanagemanuals</td>
</tr>
<tr>
<td>For information about installing and using Dell System E-Support Tool (DSET), see the Dell System E-Support Tool (DSET) User’s Guide.</td>
<td>For information about installing and using Dell System E-Support Tool (DSET), see the Dell System E-Support Tool (DSET) User’s Guide.</td>
<td>Dell.com/DSET</td>
</tr>
<tr>
<td>For information about installing and using Active System Manager</td>
<td>For information about installing and using Active System Manager</td>
<td>Dell.com/asmdocs</td>
</tr>
<tr>
<td>Task</td>
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</tr>
<tr>
<td>(ASM), see the Active System Manager User’s Guide.</td>
<td>For understanding the features of Dell Lifecycle Controller (LCC), see the Dell Lifecycle Controller User’s Guide.</td>
<td>Dell.com/idracmanuals</td>
</tr>
<tr>
<td>For information about partner programs enterprise systems management, see the OpenManage Connections Enterprise Systems Management documents.</td>
<td>For information about connections and client systems management, see the OpenManage Connections Client Systems Management documentation.</td>
<td>Dell.com/omconnectionsenterprisesystemsmanagement</td>
</tr>
<tr>
<td>For information about viewing inventory, performing configuration, and monitoring tasks, remotely turning on or off servers, and enabling alerts for events on servers and components using the Dell Chassis Management Controller (CMC), see the CMC User’s Guide.</td>
<td>For information about understanding the features of the Dell PowerEdge RAID controllers (PERC) and deploying the PERC cards, see the Storage controller documentation.</td>
<td>Dell.com/storagecontrollermanuals</td>
</tr>
<tr>
<td>Working with the Dell PowerEdge RAID controllers</td>
<td>Understanding event and error messages</td>
<td>Dell.com/dellclientcommandsuitemanuals</td>
</tr>
<tr>
<td></td>
<td>For information about checking the event and error messages generated by the system firmware and agents that monitor server components, see the Dell Event and Error Messages Reference Guide.</td>
<td>Dell.com/openmanagemanuals &gt; OpenManage software</td>
</tr>
</tbody>
</table>

## Downloading the drivers and firmware

Dell EMC recommends that you download and install the latest BIOS, drivers, and systems management firmware on your system. Ensure that you clear the web browser cache before downloading the drivers and firmware.

1. Go to [Dell.com/support/drivers](Dell.com/support/drivers).
2. Under the Drivers & Downloads section, type the Service Tag of your system in the Service Tag or Express Service Code box, and then click Submit.
   - **NOTE:** If you do not have the Service Tag, select Detect My Product to allow the system to automatically detect your Service Tag, or under General support, navigate to your product.
3. Click Drivers & Downloads.
   - The drivers that are applicable to your selection are displayed.
4. Download the drivers to a USB drive, CD, or DVD.
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