# Microsoft Windows Server 2012 Early Adopter Guide



# Notes, Cautions, and Warnings

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

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

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

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# Overview

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## Key Features Of Microsoft Windows Server 2012

NOTE: The terminology used in this guide is referenced from Microsoft Windows Server 2012. See microsoft.com/en-us/server-cloud/windows-server/default.aspx and blogs.msdn.com/b/microsoft\_press/archive/ 2012/06/04/free-ebook-introducing-windows-server-2012.aspx, for more information.

Windows Server 2012 supports the following new features as compared to Microsoft Windows Server 2008 R2:

- Beyond Virtualization Provides the infrastructure to build a private secure cloud. Provides the flexibility to build and deploy applications in a cloud using an open set of tools or framework.
- Improved live migration of virtual machines Increases the speed of live migration allowing simultaneous
  migration of many virtual machines in a cluster. It also supports live migration outside a clustered environment.
- Hyper-V Replica Replicates Hyper-V virtual machine from one Hyper-V host at a primary site to another Hyper-V host at a replica site.
- Hyper-V host scale-up workload support Allows Hyper-V to support workload:
  - On host machines with up to 160 logical processors and 2 TB of memory.
  - On virtual machines with up to 32 virtual processors and 1 TB of memory. Non-Uniform Memory Access (NUMA) is also used to improve performance on virtual machines.
- Virtual Fiber Channel for Hyper-V Allows virtual machines to connect directly to Fiber Channel-based storage, thereby increasing storage capacity.
- Hyper-V support for 4-KB disk sectors Supports native 4 KB disks and 512 byte emulation disks (512e disks) for both host and virtual machines.

**NOTE:** Dell storage controllers (PERC 8 and below) currently support only 512 byte emulation disks (512e disks) and not 4 KB disks.

- Windows NIC Teaming Prevents connectivity loss by NIC Teaming and enables multiple network interfaces
  to work together as a team. NIC Teaming is an operating system built-in feature.
- Rapid and efficient data movement using intelligent storage arrays Promotes rapid and efficient data movement using intelligent storage arrays using Offloaded Data Transfer (ODX).
- Move virtual machine storage with no downtime Supports moving of virtual machine's storage to the new
  physical storage while the virtual machine continues to run.
- Diskless network startup with iSCSI Target Provides diskless network startup with iSCSI Target without the need for special hardware or additional software.
- Continuous availability of block storage with iSCSI Target Provides continuous availability of block storage
  with iSCSI Target. You can install and configure the iSCSI Target on two or more physical machines or virtual
  machines and then create a failover cluster. The combination of the iSCSI Target functionality and failover
  clustering ensures continuous availability.
- Failover clustering Increases the availability of application and services through failover clustering.
- Windows PowerShell 3.0 Provides several improvements including:
  - New SMB modules to manage network shares.
  - Cmdlets to manage the new NIC Teaming feature from the command line.
  - More than 140 built-in Hyper-V cmdlets.
- Data deduplication Increases the usage of storage capacity through data deduplication.

Storage Spaces — It is not recommended to configure Storage Spaces on your Dell hardware as it is currently not supported.

CAUTION: Using Storage Spaces on unsupported hardware increases the risk of data loss because hardware failure notifications and hardware failover may not occur as expected.

## Windows Server 2012 Upgrade

You can upgrade to Microsoft Windows Server 2012 from Microsoft Windows Server 2008 and Microsoft Windows Server 2008 R2. See the table below for upgrade options.

Upgrade From	Upgrade To
Windows Server 2008 with SP2 – Standard Edition	Windows Server 2012 – Standard or Datacenter Edition
Windows Server 2008 with SP2 – Enterprise Edition	Windows Server 2012 – Standard or Datacenter Edition
Windows Server 2008 with SP2 – Datacenter Edition	Windows Server 2012 – Datacenter Edition
Windows Server 2008 with SP2 – Web Edition	Windows Server 2012 – Standard Edition
Windows Server 2008 with SP2 – Foundation Edition	Windows Server 2012 – Standard Edition
Windows Server 2008 R2 with SP1 – Standard Edition	Windows Server 2012 – Standard or Datacenter Edition
Windows Server 2008 R2 with SP1 – Enterprise Edition	Windows Server 2012 – Standard or Datacenter Edition
Windows Server 2008 with SP2 – Datacenter Edition	Windows Server 2012 – Datacenter Edition
Windows Server 2008 with SP2 – Web Edition	Windows Server 2012 – Standard Edition
Windows Server 2008 with SP2 – Foundation Edition	Windows Server 2012 – Standard Edition

## Dell OpenManage Support

Dell OpenManage systems management suite provides proactive monitoring, notification, and remote access for Dell systems. OpenManage 7.1 provides partial support, whereas OpenManage 7.2 will provide complete support for Microsoft Windows Server 2012. When upgrading a system to Microsoft Windows Server 2012, it is recommended that administrators:

- 1. Uninstall the existing Dell OpenManage software
- 2. Upgrade the operating system to Microsoft Windows Server 2012
- 3. Install Dell OpenManage

You can upgrade the OpenManage software without upgrading the operating system. For example If you have installed OpenManage 7.1 on Microsoft Windows Server 2012, you can upgrade to OpenManage 7.2 when available. For installation instructions, see the *Dell OpenManage Installation and Security User's Guide* available on the *Dell Systems Management Tools and Documentation* media.

### Installation Options In Windows Server 2012

You can switch between the following installation options in Windows Server 2012:

- Server core Provides the minimum configuration required to run server-specific roles.
- Full operating system Allows you to install the complete operating system.
- Minimal server interface Allows you to install the complete operating system without the graphical user interface.
- Features on demand Allows you to add or remove components from the operating system.



**NOTE:** Minimal Server Interface and Features on Demand is not present as an option during the normal course of installation of Windows Server 2012.

#### Converting A Full Operating System To Server Core And Vice Versa

For servers with a full operating system as the base installation:

- Run the following command to convert a full operating system installation to a server core installation:
  - With DISM cmdlets:

```
Dism /online /disable-feature /featurename:ServerCore-FullServer
```

With Powershell cmdlets:

Import-Module DISM

```
Disable-WindowsOptionalFeature -online -Featurename Servercore-
FullServer
```

**NOTE:** To access the Powershell interface, type <code>powershell</code> in the command prompt.

- Run the following command to convert a server core installation back to a full operating system installation:
  - With DISM cmdlets:

```
Dism /online /enable-feature /featurename:Server-Gui-Mgmt / featurename:Server-Gui-Shell /featurename:ServerCore-FullServer
```

- With Powershell cmdlets:

Import-Module DISM

```
Enable-WindowsOptionalFeature -online -Featurename Servercore-
FullServer,Server-Gui-shell,Server-Gui-Mgmt
```

For servers with server core as the base installation:

- Perform the following steps to convert a server core installation to a full operating system installation:
  - a. Insert the Windows 2012 media into the optical drive.
  - b. Copy install.wim from D:\sources\install.wim to C:\test\images.

Create the folder C:\test\images if it does not exist.

NOTE: D: is the drive where the media has been inserted.

- c. Create a folder MountDir under C:\test.
- d. Run the following command to retrieve the name or index number of the image:

Dism /Get-ImageInfo /ImageFile:C:\test\images\install.wim

e. Run the following command to mount the offline Windows image:

```
Dism /Mount-Image /ImageFile:C:\test\images\install.wim /index:4 /
MountDir:C:\test\MountDir
```

**NOTE:** index:4 represents the Data Center Edition; for the Standard Edition replace index:4 with index: 2.

f. Upgrade the operating system by running the command:

```
Dism /online /enable-feature /featurename:Server-Gui-Mgmt /
featurename:Server-Gui-Shell featurename:ServerCore-FullServer /
source:c:\test\MountDir\windows\winsxs
```

Run the following command to convert a full operating system installation back to a server core installation:
 Dism /online /disable-feature /featurename:ServerCore-FullServer

#### Converting A Full Operating System To Minimal Server Interface And Vice Versa

Run the following command to convert a server with the full operating system to a minimal server interface: Dism /online /disable-feature /featurename:Server-Gui-Shell

Run the following command to convert a server with minimal server interface to a full operating system: Dism /online /enable-feature /featurename:Server-Gui-Shell

#### Features On Demand Installation

Features on Demand is no longer available as an option during the normal course of installation of Microsoft Windows Server 2012. You can add or remove a feature when required.

NOTE: To reinstall a role or feature that is disabled, you must have access to an installation media. Ø

To remove a role or feature using Powershell cmdlets, run the following command:

Uninstall-WindowsFeature Server-Gui-Shell -remove

To install a role or feature, perform the following steps:

- 1. Insert the Windows 2012 media into the optical drive.
- 2. Copy install.wim from D:\sources\install.wim to C:\test\images. Create the folder C:\test\images if it does not exist.

**NOTE:** D: is the drive where the media has been inserted.

- 3. Create a folder MountDir under C:\test.
- 4. Run the following command to retrieve the name or index number of the image: Dism /Get-ImageInfo /ImageFile:C:\test\images\install.wim
- 5. Run the following command to mount the offline Windows image:

```
Dism /Mount-Image /ImageFile:C:\test\images\install.wim /index:4 /
MountDir:C:\test\MountDir
```

NOTE: index:4 represents the Data Center Edition; for the Standard Edition replace index:4 with index:2.

#### 6. To upgrade the operating system, run:

With DISM cmdlets:

```
Dism /online /enable-feature /featurename:Server-Gui-Mgmt /
featurename:Server-Gui-Shell featurename:ServerCore-FullServer /
source:c:\test\MountDir\windows\winsxs
```

With Powershell cmdlets:

Import-Module DISM Enable-WindowsOptionalFeature -online -Featurename Servercore-FullServer, Server-Gui-shell, Server-Gui-Mgmt



**NOTE:** To access the Powershell interface, type <code>powershell</code> in the command prompt.

## Hardware Requirements

Processor	
Minimum	1.4 GHz x 64 bit
Recommended	2 GHz x 64 bit or faster
Memory	
Minimum	512 MB
Recommended	2 GB or greater
Maximum	32 GB (Standard) or 4 TB (Enterprise and Data Cente Editions)
	<b>NOTE:</b> If you install the Traditional Chinese version, ensure that you allocate more than 512 MB of RAM, either for a physical computer or a virtual machine.
Drive	
Optical drive	DVD-ROM drive
Available Disk Space	
Minimum	32 GB
Recommended	40 GB or greater
Display	
Monitor	Super VGA (800 x 600) or higher resolution monitor
Peripherals	
Input Device	Keyboard
	Manag

## Supported Hardware

Dell PowerEdge Servers	Dell PowerEdge 1900, 1950, 2900, 2970, M420, M520, M600, M605, M610, M610x, M620, M710, M710HD, M805, M820, M905, M910, M915, R200, R210, R210 II, R300, R310, R320, R410, R415, R420, R510, R515, R520, R610, R620, R710, R715, R720, R720x, R805, R810, R815, R820, R900, R905, R910, T100, T105, T110, T110 II, T300, T310, T320, T410, T420, T605, T610, T620, and T710.
Dell PowerEdge C Servers	Dell PowerEdge C1100, C2100, C5220, C5125, C6100, C6105, C6145, C6220, and C8220.
Storage Controllers (Hardware RAID)	PERC5, PERC6, PERC7, PERC8, SAS5 (SAS5e), SAS6, and SAS 7.

Storage Controllers	S110
(Software RAID)	NOTE: Software RAID is currently not supported due to unavailability of drivers. See http:// en.community.dell.com/techcenter/os-applications/w/wiki/3872.dell-out-of-box-driver- support-for-windows-server-2012.aspx,for more information on the availability of S110 drivers.
Network Controllers (Broadcom)	5708, 5709, 5719, 5720, 5721, 5722, 57710, 57711, 57712, 57800, and 57810.
Network Controllers (Intel)	82571, 82572, 82598, X520, 82599, 82576, i350, and x540.
Network Controllers (Qlogic)	2400/2500/ Series FC4/8 HBA and P3+ (NIC only)
Network Controllers (Emulex)	1100/12000 series FC4/8 HBA, BE2 (NIC/FCoE).
Network Controllers (Brocade)	BR815, BR825, BR1741M-k, BR1020, and BR1860.
Storage Devices/ Arrays (Tapes)	LSI 20320 SCSI
Storage Devices/ Arrays (PowerVault)	Dell PowerVault MD1000, MD1120, MD1200, MD1220, MD1260, MD3200, MD3220, MD3260, MD3200i, MD3600i, MD3620i, MD3260i, MD3660i, MD3600f, MD3660f, and MD3620F.
Storage Devices/ Arrays (Dell EqualLogic)	PS100E, PS200E, PS300E, PS400E, PS3600X, PS3700X, PS3800XV, PS3900XV, PS5000E, PS5500E, PS4000E, PS4100E, PS6000E, PS6010E, PS6100E, PS6500E, and PS6510E.
Storage Devices/ Arrays (Dell Compellent)	Series 30/40

See advisors.dell.com/AgileWeb/iDrivematrixView.aspx, for more information.

## **Supported Drivers**

See en.community.dell.com/techcenter/os-applications/w/wiki/3872.dell-out-of-box-driver-support-for-windowsserver-2012.aspx, for information on the availability of the Windows Server 2012 non-inbox drivers.

## **Installing And Reinstalling Windows Server 2012**

### ∧ CAUTION: Backup all data from the system before installing or upgrading the operating system.

To install or reinstall your operating system, use one of the following methods:

• Installing using the Microsoft Windows Server 2012 media

- Installing using the Dell Systems Management Tools and Documentation media
- Installing using the Dell Unified Server Configurator (USC)

#### **Installing Using Windows Server 2012 Media**

See **social.technet.microsoft.com/wiki/contents/articles/7883.installing-windows-server-8-step-by-step.aspx**, to install Windows Server 2012 using the Windows Server 2012 media.



NOTE: You can also use Dell DRAC/iDRAC to mount the operating system DVD from a remote server.

#### Installing Using Dell Systems Management Tools And Documentation Media



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

**NOTE:** Dell OpenManage version 7.0 can be used to deploy Microsoft Windows Server 2012 although it is not formally supported. More information on Dell OpenManage will be available in the next update.



NOTE: This method of installation is supported in the BIOS and UEFI modes.

You must configure the system to boot from the optical drive. To install the operating system using the *Dell 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 attached peripherals.
- 3. Insert the Dell Systems Management Tools and Documentation media into the optical drive.
- Press <F2> when you are prompted to run the setup utility. The BIOS Settings screen is displayed.
- 5. Using the arrow keys, scroll to the Boot Sequence field and press <Enter>.
- Configure the CD ROM drive to be the first boot option and press <Esc> to exit the BIOS Settings screen. The system prepares to boot from the optical drive.

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

Select Dell Systems Build and Update Utility.
 The system boots from the selected option and the Dell Systems Build and Update Utility screen is displayed.

**NOTE:** This may take several minutes depending on the speed of the drive.

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

9. In the next page, set the time and time zone. Click **Continue**.

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

10. Choose Microsoft Windows Server 2012.

NOTE: If Microsoft Windows Server 2012 is not listed, choose Microsoft Windows Server 2008 R2.

11. Click Continue.

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

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

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

13. Click **Back** to change the installation options.

14. 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.
- 16. The system may display messages during installation. Press OK to continue with the installation.

#### ackslash CAUTION: All system partitions and data on the local hard drives are erased.

- 17. In the Windows Setup screen, select the appropriate option for Language, Time and Currency Format, and Keyboard or Input Method.
- 18. Click Next to continue.
- 19. On the next page, click Install Now.
- 20. In the Operating System Install screen, select the operating system you want to install. Click Next. The License Terms window is displayed.
- 21. Read the information carefully. If you agree with all of the information, select **I accept the license terms** and then 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 New.
- b) Specify the size of the partition in MB, and click **Apply**.
- A Windows might create additional partition for system files message is displayed.
- c) Click OK.
  - **NOTE:** The recommended minimum partition size for the primary partition is 40 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 server core installation, you may require less hard drive space for the primary partition.
- d) Select the newly-created operating system partition and click Next.

The Installing Windows screen is displayed and the installation process begins.

- 24. After the operating system is installed, the system reboots. You must set the administrator password before you can log in for the first time.
- **25.** In the **Settings** screen, enter the password, confirm the password, and click **Finish**. The operating system installation is complete.

#### Installing Using Dell Unified Server Configurator

- 1. Connect the keyboard, monitor, mouse, and any additional peripherals to your system.
- 2. Turn on the system and the attached peripherals.
- 3. Press <F10> in the POST to start the System Services.

The Initializing UEFI. Please wait... and the Entering System Services...Starting Unified Server Configurator messages are displayed.

4. In the **Unified Server Configurator** window, if you want to configure hardware, diagnostics, or set changes, click the appropriate option.

If no changes are required, press OS Deployment.

- 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 it at this time.
- 7. Click Next.

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

8. Choose Microsoft Windows Server 2012 and click Next.

**NOTE:** If Microsoft Windows Server 2012 is not listed, choose any other operating system.

- 9. Choose whether you want to deploy the operating system in UEFI or BIOS mode, and click Next.
- 10. In the Insert OS Media window, insert the Windows Server 2012 media and click Next.
- 11. In the Reboot the System screen, follow the instructions on the screen and click Finish. If a Windows operating system is already 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.
- 12. In the Windows Setup screen, select the appropriate option for Language, Time and Currency Format, and Keyboard or Input Method.
- 13. Click Next to continue.
- 14. On the next page, click Install Now.
- **15.** In the **Operating System Install** screen, select the operating system you want to install. Click **Next**. The **License Terms** window is displayed.
- 16. Read the information carefully. If you agree with all of the information, select **I accept the license terms** and then click **Next**.
- 17. In the Which Type of Installation Do You Want screen, click Custom: Install Windows only (advanced), if it is not selected already.
- **18.** 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 New.
- b) Specify the size of the partition in MB, and click Apply.

A Windows might create additional partition for system files message is displayed.

c) Click OK.

**NOTE:** The recommended minimum partition size for the primary partition is 40 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 server core installation, you may require less hard drive space for the primary partition.

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. You must set the administrator password before you can log in for the first time.

**19.** In the **Settings** screen, enter the password, confirm the password, and click **Finish**. The operating system installation is complete.

## **Known Issues And Resolutions**

This section contains information about general issues, resolutions, and their workaround applicable to Microsoft Windows Server 2012.

### Matrox Video Device In 11th And 12th Generation PowerEdge Systems

Dell PowerEdge 11th and 12th generation servers are shipped with an onboard Matrox video device. For enhanced display on your server, it is recommended that you use the latest graphics driver from **support.dell.com** 

#### **Inbox Drivers Not Available For Devices**

Description:	Inbox drivers are not available on these devices:
	<ul> <li>PCIe SSD in the 12th generation of PowerEdge systems</li> <li>PCI Simple Communication Controller for the Intel Romley Chipset device in the 12th generation of PowerEdge systems</li> </ul>
	<ul> <li>Broadcom 57800 up to two 10Gb BT</li> <li>Broadcom 57810 up to two 1Gb and 10Gb BT rNDC</li> </ul>
Resolution:	For latest available drivers, see <b>en.community.dell.com/techcenter/os-applications/w/wiki/</b> 3872.dell-out-of-box-driver-support-for-windows-server-2012.aspx Download these drivers from Drivers and Downloads section at support.dell.com.

### Support for Dell Software RAID S110 In Windows Server 2012

Resolution:	For the latest updates on driver support, see en.community.dell.com/techcenter/os- applications/w/wiki/3872.dell-out-of-box-driver-support-for-windows-server-2012.aspx
Description:	Dell software RAID S110 is currently not supported on Windows Server 2012.

#### **Crash Dump Initialization Failed**

Description:	An error <b>Crash dump initialization failed!</b> is logged in the Event Viewer.
Resolution:	This is working as designed.

#### **Interactive Service Detection Service Disabled**

 Description:
 Interactive Service Detection Service is disabled by default in Windows Server 2012.

 Resolution:
 Enable Interactive Service Detection Service by editing the registry. To edit the registry, see msdn.microsoft.com/en-us/library/windows/desktop/ms683502(v=vs.85).aspx.

#### WoW64 Feature Cannot Be Removed

Description:	The Windows 32-bit on Windows 64-bit (WoW64) feature cannot be removed from the Windows Server 2012 full operating system installation.
Resolution:	By default, the WoW64 feature is installed along with the full operating system installation. On removal of this installation, the server configuration changes from the full operating system installation to server core installation.

#### **TPM Error Logged In Event Viewer**

 Description:
 Trusted Platform Module (TPM) error logged in the Event Viewer. This error exists until the TPM is provisioned.

 Resolution:
 This error occurs as TPM certificate is not available in the NVRAM. After the TPM endorsement key is created and initialized, the error does not appear on startup.

#### System Unresponsive When Installing Dell MD Storage Software

Description:	PowerEdge systems are unresponsive when installing the Dell MD Storage software for the Dell PowerVault MD32xx family.
Resolution:	It is recommended not to use MD Storage software for Windows Server 2012 as it is currently not supported on the Dell hardware. Support will be available towards the end of 2012.

#### Yellow Bang Seen On The Broadcom BCM 5708c Or BCM 5709c NetXtreme II GigE LOM

Description:	After you complete the iSCSI-based Windows Server 2012 installation on a Dell system, installed with either of the Broadcom NetXtreme II GigE controllers, you see a yellow bang in the device manager.
Resolution:	To fix the yellow bang:
	<ol> <li>Uninstall the network drivers.</li> <li>To rescan, run the Scan for hardware changes for Windows Device Manager.</li> </ol>

The Device manager rescans and finds these devices. It automatically installs the drivers for the devices as these are native to the operating system.

### Unable To Update iDRAC6 And iDRAC7 Firmware Using Internet Explorer 10 Browser

Description:	Using the built-in Internet Explorer 10 browser, you cannot update or flash the iDRAC6 and iDRAC7 firmware on Dell systems. The firmware update becomes unresponsive at the File upload in Progress screen.
Resolution:	Following are the workarounds:
	<ul> <li>To upgrade the firmware, set the Internet Explorer 10 browser to run in Internet Explorer 10 compatibility mode.</li> </ul>

• To flash the firmware, use web browsers like Internet Explorer 7 and above, Mozilla Firefox or Google Chrome.

This will be fixed in the iDRAC code of the next firmware release.

### No Korean Language Support In OpenManage 7.1 SBUU

Description:There is no option to install Windows Server 2012 operating system in Korean language using<br/>the OpenManage (OM) 7.1. System Built And Update Utility (SBUU) DVD.

**Resolution:** Korean language support will be added to the next release of OpenManage. For now, you can install the operating system manually without using OpenManage 7.1.

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