



Intelligent Provisioning 5.04 User Guide for HPE ProLiant Compute Gen12 Servers

Part Number: 30-FA1398D6-504
Published: April 2026
Edition: 1

Intelligent Provisioning 5.04 User Guide for HPE ProLiant Compute Gen12 Servers

Abstract

This document details how to access and use the Intelligent Provisioning. It is included in the optimized server support software from the Service Pack for ProLiant (SPP). This document is intended for administrators experienced in using HPE ProLiant Compute Gen12 servers.

Part Number: 30-FA1398D6-504

Published: April 2026

Edition: 1

© Copyright 2026 Hewlett Packard Enterprise Development LP

Notices

The information contained herein is subject to change without notice. The only warranties for Hewlett Packard Enterprise products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. Hewlett Packard Enterprise shall not be liable for technical or editorial errors or omissions contained herein.

Confidential computer software. Valid license from Hewlett Packard Enterprise required for possession, use, or copying. Consistent with FAR 12.211 and 12.212, Commercial Computer Software, Computer Software Documentation, and Technical Data for Commercial Items are licensed to the U.S. Government under vendor's standard commercial license.

Links to third-party websites take you outside the Hewlett Packard Enterprise website. Hewlett Packard Enterprise has no control over and is not responsible for information outside the Hewlett Packard Enterprise website.

Acknowledgments

Adobe, the Adobe logo, Acrobat, and the Adobe PDF logo are either registered trademarks or trademarks of Adobe in the United States and/or other countries.

AMD, the AMD Arrow symbol, ATI, and the ATI logo are trademarks of Advanced Micro Devices, Inc.

Ampere®, Altra®, and the A®, and Ampere® logos are registered trademarks or trademarks of Ampere Computing.

Arm® is a registered trademark of Arm Limited (or its subsidiaries) in the U.S. and/or elsewhere.

Bluetooth is a trademark owned by its proprietor and used by Hewlett Packard Enterprise under license.

DLTape logo and SDLTape logo are trademarks of Quantum Corporation in the U.S. and other countries.

Docker and the Docker logo are trademarks or registered trademarks of Docker, Inc. in the United States and/or other countries.

ENERGY STAR® and the ENERGY STAR® mark are registered U.S. marks.

Google™ and the Google Logo are registered trademarks of Google LLC.

Graphcore®, the Graphcore wordmark and Poplar® are registered trademarks of Graphcore Ltd.

Intel Inside®, the Intel Inside logo, Intel®, the Intel logo, Itanium®, Itanium® 2-based, and Xeon® are trademarks of Intel Corporation in the U.S. and other countries.

Linux® is the registered trademark of Linus Torvalds in the U.S. and other countries.

McAfee® and the M-shield logo are trademarks or registered trademarks of McAfee, LLC or its subsidiaries in the United States and other countries.

Microsoft® and Windows® are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.

MLCommons™, MLPerf™, and MLCube™ are trademarks and service marks of MLCommons Association in the United States and other countries.

NVIDIA® and NVIDIA logos are trademarks and/or registered trademarks of NVIDIA Corporation in the U.S. and other countries.

Oracle®, Java, and MySQL are registered trademarks of Oracle and/or its affiliates.

Qualcomm® and the Qualcomm logo are trademarks of Qualcomm Incorporated, registered in the United States and other countries, used with permission.

Red Hat® is a registered trademark of Red Hat, Inc. in the United States and other countries.

SAP®, SAP HANA®, and SAP S/4HANA® are the trademarks or registered trademarks of SAP SE or its affiliates in Germany and in other countries.

SAS®, the SAS® logo, EVAAS®, JMP®, the JMP® logo, IDaaS™, SAS/ACCESS®, SAS/ASSIST®, SAS/ETS®, SAS/FSP®, SAS/GRAPH®, SAS/IML®, SAS/OR®, SAS/QC®, SAS/SHARE®, THE POWER TO KNOW®, and VIYA® are registered trademarks or trademarks of SAS Institute, Inc.

sFlow® is a registered trademark of InMon Corp.

TOGAF® is a registered trademark of The Open Group. IT4IT™ is a trademark of The Open Group.

UNIX® is a registered trademark of The Open Group.

VMware®, VMware NSX®, VMware vCenter®, and VMware vSphere® are registered trademarks or trademarks of VMware, Inc. and its subsidiaries in the United States and other jurisdictions.

X/Open® is a registered trademark, and the X device is a trademark of X/Open Company Ltd. in the UK and other countries.

All third-party marks are property of their respective owners.

Table of contents

Intelligent Provisioning.....	7
Unsupported features.....	8
Accessing Intelligent Provisioning	8
Accessing Intelligent Provisioning using the iLO remote console (iRC) or a monitor.....	8
Hardware configuration and OS installation using Intelligent Provisioning.....	9
Selecting an install source.....	10
Configuring OS settings.....	12
Converting the MR controller drives to the Unconfigured Good state.....	14
Configuring the controller	15
Selecting an OS drive to set partitions.....	16
Reviewing your settings.....	19
Checking installation parameters.....	20
Server support and special characters.....	20
Source media types and installation methods supported for each OS.....	20
Creating RAID Volume on Virtual Raid on CPU.....	21
Enabling the VROC	21
Creating the VROC RAID volume.....	22
Initial Configuration in Intelligent Provisioning.....	22
Using the first time setup wizard.....	22
Re-enabling Intelligent Provisioning.....	23
Reinstalling Intelligent Provisioning	23
Reinstalling using an ISO image.....	24
Reinstalling using an RPM package (Linux).....	25
Maintenance Operations.....	26
Setting Intelligent Provisioning preferences	26
Using deployment settings.....	28
Creating a deployment using Intelligent Provisioning.....	28
Using a deployment to configure a single server.....	30
About Hardware Validation Tool.....	31
Using the hardware validation tool.....	31
Creating a RAID configuration with MR Storage Administrator (MRSA)	32
Accessing MRSA.....	32
Using the USB Key utility.....	32
Troubleshooting.....	33

Showing Unable to install without the usb_storage driver loaded, Aborting, when upgrading or installing with rpm.....	33
HPE Compute Software and Firmware Product Documentation Quick Links.....	34
Intelligent Provisioning Quick Links	36
Websites.....	36
Support and other resources.....	37
Accessing Hewlett Packard Enterprise Support.....	37
HPE product registration.....	38
Accessing updates.....	38
Remote support.....	39
Warranty information.....	39
Regulatory information.....	39
Documentation feedback.....	40

Intelligent Provisioning

Intelligent Provisioning is a single-server deployment tool that installs the OS. It is embedded in all ProLiant compute modules. Intelligent Provisioning accesses the firmware, drivers, and tools available on the server so you can easily deploy and configure a server.

Intelligent Provisioning supports the following generations and associated versions:

- Gen8: 1.x versions
- Gen9: 2.x versions
- Gen10 and Gen10 Plus: 3.x versions
- Gen11: 4.x versions (excluding 4.4x)
- Gen12: 4.4x version for iLO 6
- Gen12: 5.x version for iLO 7 (AOIP is not supported)



IMPORTANT

Intelligent Provisioning version 5.02 onwards supports the following utilities and features on Gen12 servers.

- MR Storage Administrator
- Server Hardware Diagnostic UEFI
- Server Hardware Diagnostic Full Test
- Performance Maintenance
- Rapid setup
- Hardware Validation Tool (HVT)



NOTE

- AOIP is not supported on Gen12.servers.

Subtopics

Unsupported features

Unsupported features

- OS installation is not supported on `HPE MR408i-p` Gen11 controller.
- **IML Viewer** and **Survey Compare** functionalities are currently unavailable on HVT.
- Always On Intelligent Provisioning (AOIP) is not supported for Gen12 platform.
- FTP source media does not support installation of Red Hat Enterprise Linux versions 8.7 and later for 8x and 9.1 and later for 9x.
- Active Health System Data
- Firmware update
- iLO Configuration Utility
- BIOS Configuration (RBSU) utility
- Intelligent storage configuration
- One-button secure erase
- System Erase and reset
- SR Storage Administrator

Accessing Intelligent Provisioning

The following are the different ways of accessing Intelligent Provisioning.

Subtopics

Accessing Intelligent Provisioning using the iLO remote console (iRC) or a monitor

Accessing Intelligent Provisioning using the iLO remote console (iRC) or a monitor

Procedure

1. Open a browser.
2. Enter `https://<iLO host name or IP address>` to log on to the iLO web interface.

3. On the iLO web interface, click the **IRC** on the left panel.

The **remote console** thumbnail window opens.

4. Click **launch**.
5. Reboot or power on the server.

The server reboots and the POST screen appears.

6. Press **F10** when prompted, during the server POST.
7. Enter iLO credentials to load IP.

Hardware configuration and OS installation using Intelligent Provisioning

Prerequisites

1. [Enabling the VROC](#)
2. [Creating the VROC RAID volume](#)

About this task

The first time Intelligent Provisioning runs on a server, the First Time Setup wizard guides you through selecting preferences for your system.

Procedure

1. From the POST screen, press **F10** to launch Intelligent Provisioning.
2. Use the [First Time Setup wizard](#) to configure your network preferences.
3. Enter the Rapid Setup option and [select the OS install source](#).
4. From the Rapid Setup Dashboard, configure all the settings:
 - a. [Configuring OS settings](#)
 - b. [Configure the storage settings](#)
 - c. [Select an OS drive to set partitions](#)

5. Review your settings and proceed with the OS installation.

**NOTE**

If you plan to install the OS in an Intel Virtual RAID on CPU (Intel VROC) volume, follow these **procedures**.

Subtopics

Selecting an install source

Configuring OS settings

Converting the MR controller drives to the Unconfigured Good state

Configuring the controller

Selecting an OS drive to set partitions

Reviewing your settings

Checking installation parameters

Server support and special characters

Source media types and installation methods supported for each OS

Creating RAID Volume on Virtual Raid on CPU

Selecting an install source

Prerequisites

- Make sure that the OS media images are accessible to the system.

Procedure

1. Select **Rapid Setup** on the Intelligent Provisioning Home page.
2. A **Proxy Setting** Window will appear. Configure the **Proxy Setting** if needed; otherwise, skip this step.
3. Select an **Install Source** from the icons. The available options, along with the required information and actions for each, are described in the following table.

Media type**Required information or action**

File on a USB drive

Allows you to install an OS from a USB drive.

**NOTE**

Media type	Required information or action
	• This source is not supported in Always On Intelligent Provisioning mode. • You must extract the ISO and copy it to the USB before the installation for RHEL and SLES.
DVD-ROM Media	Allows you to install an OS from a DVD-ROM.
SMB/CIFS (Windows Share)	Allows you to install an OS from a Windows Share directory. You need the following network connection information, including: • Server Name or IP Address— The server name or IP address of the server that hosts the OS contents. If a server name is specified, a DNS entry is also required. • Share Name—The name of the network share using Server Message Block (SMB) protocol that hosts the OS contents. • Domain Name (optional)—The path to directory or file. • Network Share User—The user name used to access the network share. • Network Share Password (not encrypted)—The password for the user name used to access the network share. • Confirm Password (not encrypted)— Re-enter the password to avoid errors.
An anonymous FTP server	Allows you to install an OS through an FTP source. You need the following network connection information, including: • Server Name or IP Address—The FTP server name or IP address of the server that hosts the OS contents. FTP support requires an anonymous access to the FTP server and does not support connecting to an FTP server through a proxy.  IMPORTANT When entering an FTP path, remove spaces and punctuation. The FTP server directory structure cannot con

Media type	Required information or action
	 tain spaces or special characters (including punctuation).
Virtual media	Allows you to install the OS from a virtual media source. This option is only supported in Always On Intelligent Provisioning mode.

- Go to the **Install Summary** page if the media is supported automatically.



IMPORTANT

If an unsupported media device is selected, you will not be able to continue to the next screen. To resolve the issue, remove the unsupported media device, and ensure that you have a supported install source when prompted.

Configuring OS settings

Procedure

- Enter the required information for the location of the OS files.

Supported OS families include:

- Microsoft Windows
- VMware vSphere Custom Image
- SUSE Linux Enterprise Server
- Red Hat Enterprise Linux



NOTE

- Certain ProLiant servers require an HPE Customized image for a successful VMware ESXi installation. For more information or to download an image, see the Hewlett Packard Enterprise website at <https://www.hpe.com/info/esxidownload>.

2. To proceed, do the following:

- For Windows Server or Hyper-V Server Installation, it provides the following settings:

- **Operating System**



TIP

Users can select different editions of Windows server for installation.

- **Computer Name**

- **Organization Name**

- **Owner Name**

- **Password**

- **Confirm Password**

- **OS Language**

- **OS Keyboard**

- **Time Zone**

- Selection to install **Hyper-V role on this system**



NOTE

This function will not show up while installing Hyper-V Server.

- Selection to **Enable Windows Firewall**

- For other Linux systems, it only provides the following settings:

- **Operating System**

- **OS Hostname**

- **Password**

- **Confirm Password**

**NOTE**

The default password for Red Hat Enterprise Linux is not set up.

The default password for SUSE Linux Enterprise Server is `password`.

The default password for ESXi 7.x and 8.x is `_Passw0rd_`.

Converting the MR controller drives to the Unconfigured Good state

About this task

If the drives connected to the MR controller are in **JBOD** state, they cannot be used for RAID/array configuration. To create a RAID volume on any of the drives, you must convert them to the **Unconfigured Good** state. Converting the drives to the **Unconfigured Good** state is only required for MR controllers.

Procedure

1. Reboot or power on the server.

2. Press **F9** on the server POST screen.

The **System Utilities** screen appears.

3. On the **System Utilities** screen, select **System Configuration**.

4. To view the state of the drives attached to the MR controller, select **MR Controller** > **Main Menu** > **Drive Management**.

The list of all the drives with their respective states appears.

5. Select **Main Menu** > **Configuration Management** > **Make Unconfigured Good**.

6. Select the drives to be converted, and click **OK**.

7. Select **Confirm** and **Yes** to confirm the selection.

A success message appears.

8. Select **OK**.

9. To ensure that the drive state has been changed to the **Unconfigured Good** state, perform step 4.

0. To return to the **Intelligent Provisioning** screen, select > **Embedded Applications** > **Intelligent Provisioning**.

Configuring the controller

Prerequisites

The MR Controller sets the drives that are not part of any user-created RAID volumes to the **JBOD** state. If the drives connected to the MR controller are in **JBOD** state, then they cannot be used for RAID/array configuration.

To create a RAID volume on any of the drives attached to the MR controller, you must first set them to the **Unconfigured Good** state. For instructions on configuring the drives in the MR controller, see [Converting the MR controller drives to the Unconfigured Good state](#).

About this task

On this page, you can configure and allocate the disk space.

On the OS installation summary page, Intelligent Provisioning checks the RAID and drive status and performs the following:

- If there is an existing logical drive on the hardware / software RAID, Intelligent Provisioning only displays the information.
- If there is no existing logical drive, then Intelligent Provisioning automatically creates an OS drive and data drive based on the number of drives available.
- You can change the following logical drives:
 1. The recommended RAID configuration that Intelligent Provisioning automatically created.
 2. The array or logical drive you created from the RSS.
- You cannot change any existing array or logical drive on the server.



NOTE

If more than one RAID controller is installed on the server, Intelligent Provisioning will automatically select the best RAID controller for configuration.

Procedure

1. Click the **Pencil** icon on the top-right corner of this page.
2. Click **Create Array**.
3. Enter the **Model number** and specify how you want to use it as an Array or Spare.
4. Click **Next**.
5. Select the **Raid Mode**, **Raid Size (GB)**, **Accelerator**, Legacy Boot priority, and **Strip size (KB)**.

6. Click **Next** to review the settings.
7. You can either click **Back** to change the settings or click **Done** to confirm them.
8. Under **Create Logical Drive**, you can view the drive information.
9. If you want to delete the current allocation, click **Clear All Array**.

Selecting an OS drive to set partitions

About this task

In this page, the user can choose to perform a manual partition, or let the OS perform the automatic partition during installation.

For automatic partition:

1. Leave the **Use Recommended Partition** check box enabled.
2. Open the **Select one following drive to configure as OS drive** menu. Select the hard drive on which you want to install the OS.

For manual partition:

1. Clear the **Use Recommended Partition** check box.

The following section displays the chart for the default partition. (The chart varies based on the OS and version.)

- The following chart displays the default partition for the Windows/Hyper-V operating system.

Mount Point	Size (MB)	File System Type	Partition Label
Recovery	500	NTFS	
EFI system partition	100	FAT32	
Microsoft reserved partition	16	NTFS	
Basic data partition	Rest of HDD	NTFS	

While users can only change the **Basic data partition**, the rest of the partitions are also crucial for maintenance, and must not be changed.

- The following chart displays the default partition for the SUSE operating system.

Mount Point	Size (MiB)	File System Type	Partition Label
Swap	2000	swap	
/boot/efi	150	vfat	
/	40000	btrfs	
/home	Rest of HDD	Xfs	

While the user can only change the `/home` partition, the rest of the partitions are crucial for maintenance and must not be changed.

- The following chart displays the default partition for the Red Hat Enterprise Linux operating system:

Mount Point	Size (MiB)	File System Type	Partition Label
/boot	1000	Xfs	
/boot/efi	200	efi	
swap	1000	swap	
/	10000	xfs	
/home	Rest of HDD	xfs	

While the user can only change the `/home partition`, the rest partitions are crucial for maintenance and must not be changed.



NOTE

- a. VMware does not allow manual partition.
- b. When Boot mode is switched to Legacy mode, manual partition is disabled for Windows or Hyper-V Server.

2. To change the partition scheme for Windows or Hyper-V systems:

- a. Click the cell that you want to change.
- b. Adjust the **Percentage** or **Size** for this partition, provide the **Partition Label** if necessary, then click the **Check** icon.

An editable row appears at the top of the table.

c. Enter the data in the following columns:

- **Mount Point**
- **Size**
- **Percentage**
- **File System Type**



NOTE

For Windows or Hyper-V, the user can only use **NTFS**.

- **Partition Label**

Then, click the **Check** icon to complete.

d. Repeat steps c and d to create more partitions.

To change the partition scheme for SUSE/Red Hat system:

- a. Click the `/home`, and click the cell you want to edit.
- b. Adjust the **Percentage** or **Size** for this partition, provide the **Partition Label** if necessary, then click the **Save Changes** button.
- c. You will see an editable row at the top of the table.
- d. Enter the data in the following fields:

- **Mount Point**
- **Size**
- **File System Type:** For SUSE/Red Hat, you have the following choices:
 - `btrfs`
 - `ext2`
 - `ext3`
 - `ext4`
 - `vfat`
 - `xf`s
 - `swap`

- **Partition Label**

Then click the **Create** button to complete.

e. Repeat step c and d to create more partitions.

Reviewing your settings

About this task



CAUTION

Continuing past this screen resets the drives to a newly installed state and installs the selected OS. Any existing information on the server is erased. This action does not affect the first-time setup, because there is no data present on the server.

Procedure

1. Review and confirm your deployment settings.
2. Click **Back** to navigate to the **Summary and Install** button on the top-right corner.
3. Review the setting from the **Summary and Install** menu.
4. Click the **Accept Configure** button on the top-right corner to process the OS installation.

Checking installation parameters

During the installation and configuration process, consider the following:

- An EULA might be displayed.
- If you attempt to deploy an OS on a server with no installed drives, it will show an error message stating `Rapid Setup did not find any supported disk installed on this system`, and the user will not be able to proceed.
- For Windows installations, messages about an untested Windows version and `hpkeyclick` messages might be displayed while the drivers are installed. This is expected behavior. No action is required.

Server support and special characters

- Intelligent Provisioning is not supported on HPE Synergy Servers.
- You can only use special characters in passwords. Do not use special characters in any other data fields. Special characters, punctuation, and spaces are not supported in any path-name.

Source media types and installation methods supported for each OS

Each **Rapid Setup** screen provides a guided method for configuring the server, installing an OS, and updating the system software.



IMPORTANT

- Intelligent Provisioning only supports original, licensed vendor media, or Hewlett Packard Enterprise branded versions. Demo or developer versions of the OS, or media that has been modified to slipstream custom software or service packs, are not supported. The installation process may fail to correctly identify such versions of the OS.
- Manual install is not supported in Intelligent Provisioning.

For more information about source media and installation methods supported by each OS, see the Intelligent Provisioning Release Notes.

Creating RAID Volume on Virtual Raid on CPU

Procedure

1. [Enabling the VROC](#)
2. [Creating the VROC RAID volume](#)

Subtopics

[**Enabling the VROC**](#)

[**Creating the VROC RAID volume**](#)

Enabling the VROC

Procedure

1. Restart or Power on the server.
2. Press **F9** on the server POST screen.

The **System Utilities** screen appears.
3. On the **System Utilities** screen, select **System Configuration**.
4. Select **BIOS/Platform Configuration (RBSU)**.
5. Select **Storage Options** and click **SATA Controller Options**.
6. In **Embedded SATA Configuration**, select the **Intel VROC SATA Support**.
7. Reboot the server.

Creating the VROC RAID volume

Procedure

1. Repeat steps [1 to 3](#) from [Enabling the VROC](#).

2. Select the **Intel VROC SATA controller**.

The controller where you want to create the RAID.

3. Select **Create RAID Volume**.

4. Select the RAID level, disk and click **Create Volume**.

The VROC RAID volume is created.

Now you can continue with the [OS installation using VROC \(Intelligent Provisioning\)](#).

Initial Configuration in Intelligent Provisioning

When you launch F10 mode from the POST screen, you are able to use Intelligent Provisioning.

Intelligent Provisioning offers tools to provision and maintain servers.

Intelligent Provisioning

Provisioning multiple servers.

Configuring multiple RAID arrays.

Users who have servers provisioned and deployed.

Subtopics

[**Using the first time setup wizard**](#)

[**Re-enabling Intelligent Provisioning**](#)

[**Reinstalling Intelligent Provisioning**](#)

Using the first time setup wizard

About this task

The first time Intelligent Provisioning runs on a server, the First Time Setup wizard guides you through selecting preferences for your system.

The first time you launch Intelligent Provisioning, you get the option to select the **Rapid Setup** or the **Perform Maintenance** interface.

Time zone settings are not editable in Intelligent Provisioning, use iLO to edit the time zone.

Re-enabling Intelligent Provisioning

About this task

If the **Intelligent Provisioning (F10 Prompt)** in your boot menu is disabled, you can re-enable it using the procedure described below.

Procedure

1. Reboot the server and, when prompted, press **F9**.
2. From the System Utilities screen, select **System Configuration > BIOS/Platform Configuration (RBSU) > Server Security > Intelligent Provisioning (F10 Prompt)**, and then press **Enter**.
3. Select **Enabled**.
4. Click **Save & Exit**, and then reboot the server.

Reinstalling Intelligent Provisioning

You can reinstall Intelligent Provisioning instead of using the **Firmware Update Utility** to ensure you have the latest version. There are two methods for reinstalling Intelligent Provisioning.

Subtopics

Reinstalling using an ISO image

Reinstalling using an RPM package (Linux)

Reinstalling using an ISO image

About this task

Procedure

1. Download the ISO image file for the latest Intelligent Provisioning recovery media by clicking **Download** from the Intelligent Provisioning website (https://support.hpe.com/connect/s/softwaredetails?language=en_US&softwareId=MTX_0e528dc701d14e04864ba71f27).



NOTE

The following servers and Intelligent Provisioning versions are supported:

- Gen8 supports Intelligent Provisioning 1.x.
- Gen9 supports Intelligent Provisioning 2.x.
- Gen10 supports Intelligent Provisioning 3.x.
- Gen10 Plus supports Intelligent Provisioning from 3.x.
- Gen11 supports Intelligent Provisioning from 4.x.
- Gen12 SP supports Intelligent Provisioning from 4.41.
- Gen12 supports Intelligent Provisioning from 5.x.

2. To download the ISO image file, complete the onscreen instructions.
3. Mount the ISO file in one of the following ways:
 - Using iLO virtual media.



NOTE

When using iLO virtual media, the installation time depends on the network condition.

- Burn the Intelligent Provisioning recovery media ISO file to a DVD and place it in the CD/DVD drive of the server.
 - Copy the recovery media to a USB key (See section [Using the USB Key Utility](#) for more information).
4. To power up the server, press **ON**.
 5. To display the boot menu, press **F11** during server POST.

6. Select CD/DVD to boot from the mounted ISO.
7. To update/reinstall Intelligent Provisioning, select the interactive method. The server continues booting from the Intelligent Provisioning recovery media.
8. Select **Reinstall Intelligent Provisioning** when the window opens.
9. When prompted, enter the iLO credentials.
10. After the installation completes, reboot the server by pressing **F10**.
11. When prompted, enter the iLO credentials.

Reinstalling using an RPM package (Linux)

Prerequisites

- You have `gptfdisk`, `sdparm`, and `mdadm` for SLES 15.x.
- You have `sdparm` for RHEL 9.x.

Procedure

1. Download the RPM package file for the latest Intelligent Provisioning recovery RPM package from the SDR website (<https://downloads.linux.hpe.com/SDR/repo/ip/>).

2. Execute the command:

```
rpm -i firmware-intelligentprovisioning-<version>.x86_64.rpm
```

3. Execute the command:

```
cd /usr/lib/x86_64-linux-gnu/firmware-intelligentprovisioning-ip-<version>/
```

4. Execute the command:

```
#!/hpsetup -u ilusername -p ilopassword
```

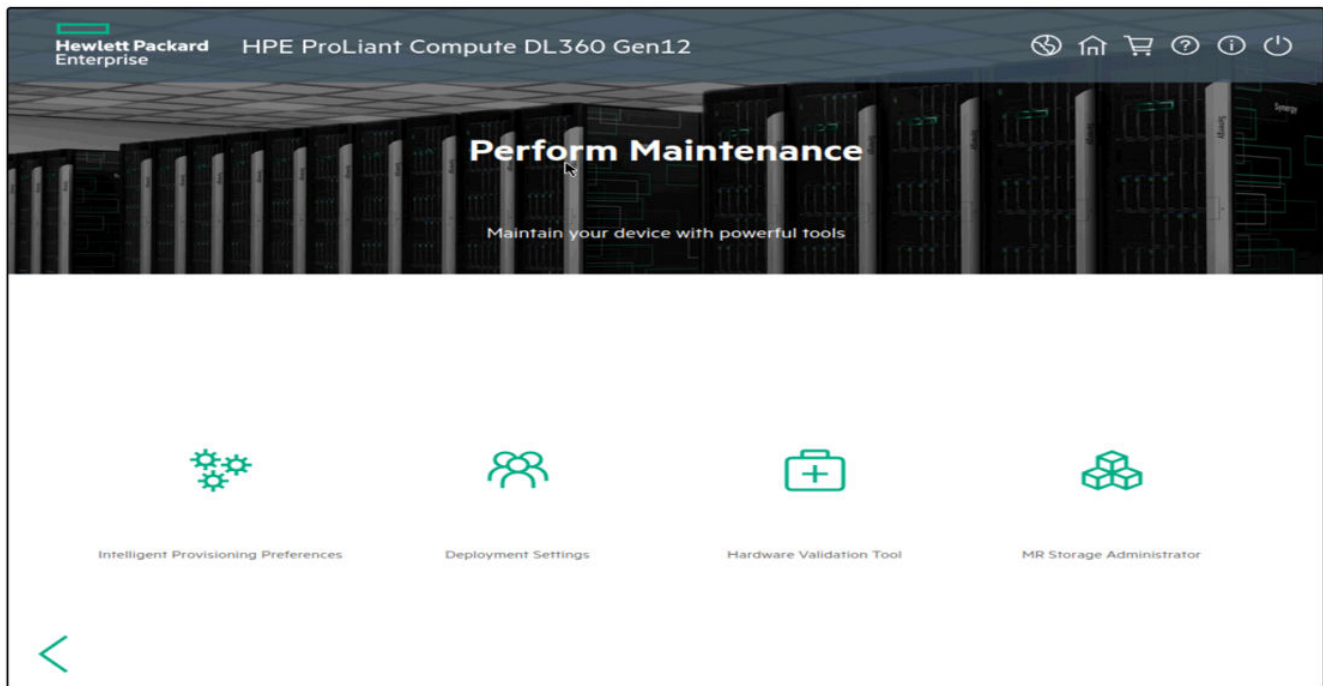
5. Execute the command:

```
#reboot
```

6. When prompted, enter the iLO credentials to load IP.

Maintenance Operations

Once you access the Intelligent Provisioning Home screen, you can click **Perform Maintenance** to view the available options.



Subtopics

[Setting Intelligent Provisioning preferences](#)

[Using deployment settings](#)

[About Hardware Validation Tool](#)

[Using the hardware validation tool](#)

[Creating a RAID configuration with MR Storage Administrator \(MRSA\)](#)

More information

[Accessing Intelligent Provisioning](#)

Setting Intelligent Provisioning preferences

About this task

Use **Intelligent Provisioning Preferences** to modify the basic preferences, including the interface, keyboard languages, network and share setting, system date and time, and software update settings. In addition, the EULA is accessible from this screen.

Procedure

1. On the Intelligent Provisioning home screen, click **Perform Maintenance**.
2. Select **Intelligent Provisioning Preferences** from the maintenance options.
3. In the **Basic Setting** tab, select settings for the following options:

- **Interface Language**
- **Keyboard Language**
- **Boot BIOS Mode** - This is always UEFI Optimized.
- **System Software Update**—Select a source for firmware update.
 - **Update from HPE Website**
 - **Update from Custom URL**
- **Time Zone**
- **System Date**
- **System Time**
- **Enable Feedback**
- Accept **EULA**, or click **Read EULA**

In the **Network Settings** tab, enter the following details:

- **Choose network interface for updates and installs**
- **Use Proxy**, and provide proxy details.
- **DHCP Auto-Configuration**, **IPv4/IPv6** switch and provide the configuration details.

4. Click **Submit**.

Results

When Intelligent Provisioning is run for the first time on a server, it is the first screen that is displayed within Intelligent Provisioning.

More information

Maintenance Operations

Using deployment settings

Information on how to:

- Create a deployment profile/package
- Configure a server using an existing deployment profile

Subtopics

[Creating a deployment using Intelligent Provisioning](#)

[Using a deployment to configure a single server](#)

More information

[Maintenance Operations](#)

Creating a deployment using Intelligent Provisioning

About this task

The Intelligent Provisioning **Deployment Settings** page enables you to create deployments or server configuration packages.

You can deploy the packages using a USB key or iLO Scripting to one or more HPE ProLiant servers. Using **Deployment Settings** is an alternative to using the Scripting Toolkit or iLO RESTful Interface Tool.

Procedure

1. On the Intelligent Provisioning home screen, click **Perform Maintenance**.
2. Select **Deployment Settings** from the maintenance options.
3. On the Deployment Settings screen, do one of the following:
 - a. To create a new customized profile, click **Create New Deployment**, and navigate the deployment settings screens to complete the settings in the following steps.
 - b. To edit an existing customized profile, click  (**Edit**).

4. Enter a **Deployment Name** - Enter a name for this deployment package. Do not include spaces or special characters.

**NOTE**

Although optional, steps 5–10 below refine your deployment profile and help ensure a solid server configuration.

5. (Optional) Enter **User Notes** and **Captured From** details.

6. (Optional) Enter an **Operating System**:

- a. Click **Create** button.
- b. Select the **Install source**.
- c. Select the **Install media** or **OS type**.
- d. Configure OS settings.

For example, in a VMware OS and a virtual media source, you could enter a URL of the format: <http://VMware-ESXi-8.0.3-24674464-HPE-803.0.0.12.2.0.2-sep2025.iso>

- e. Select **Use Automation Controller Setting** or not.
 - f. Configure the partition table.
 - g. Click **Save** button if everything is correct.
7. (Optional) Enter the **ROM Settings**.
 8. (Optional) Enter the **Storage Controller Settings**.
 9. (Optional) Enter **Intelligent Provisioning Preferences**.
 10. (Optional) Enter **Hardware Validation Tool**— Select **Hardware Validation Tool** options for each deployment.
 11. Click **Save** to save the profile.

More information**Accessing Intelligent Provisioning**

Using a deployment to configure a single server

Prerequisites

You have a deployment (settings profile or package) available with you on your current server or on a server over the network, or on a USB drive.

About this task



IMPORTANT

Do not interrupt the configuration process.

Procedure

Do one of the following:

1. To use the deployment you created on the same server, click  (**Deploy**).
2. To use a previously created deployment that does not exist on this server:

Select **Deployment Settings > Import**.

- **From Network Share** enter:
 - **Server Name or IP Address**—Server name or IP address of the server that hosts the OS contents. If a server name is specified, a DNS entry is also required.
 - **Share Name**—The name of the network share using Server Message Block (SMB) protocol that hosts the OS contents.
 - **Domain Name**—Name of the domain that hosts the network share.
 - **Network Share User**—User name used to access the network share.
 - **Network Share Password (not encrypted) and Confirm Password**—Password for the user name used to access the network share.
- **From USB Drive**
 - a. Insert the USB key containing the deployment.
 - b. Select the deployment from USB and click **Next**.
 - c. Click **Deploy**.



NOTE

The newly imported deployment is added with the prefix "New Import".

About Hardware Validation Tool

The Hardware Validation Tool performs discovery on the components in your system and then displays the results. You can:

- Test the system
- View test results
- Export test results

Using the hardware validation tool

Procedure

1. From the main menu, click **Perform Maintenance**.
2. Click **Hardware Validation Tool**.

The tool performs hardware discovery. This discovery process might take several minutes.

3. After the discovery finishes, the tool displays the test results.
4. Select one of the following tabs:
 - **Survey:** Displays an overview of the hardware in the system.
 - **Test:** Tests the hardware and displays the test results. It also, identifies the time taken to run the tests by enabling the elapsed time and sets the test loop.
 - **Export:** Exports test results. If there is no network connection, save the files to a USB key.
 - **Compare:** Compares the tests to previous test results.
 - **Integrated Management Log (IML):** Displays the log list.



NOTE

Use the Hardware Validation Tool only for limited loop testing. Using it for endless loop testing will fill up the log space. If there are no failures reported at the end of the 2 to 3 testing loops, then the system is working as expected.

Creating a RAID configuration with MR Storage Administrator (MRSA)

The following section introduces the concept of MRSA. For more information related to MRSA, see the [HPE MR Storage Administrator User Guide](#).

Subtopics

[Accessing MRSA](#)

Accessing MRSA

Launching MRSA:

- MRSA can be launched from F10
Press **F10** and select **MR Storage Administrator** from the menu.

The **MR Storage Administrator** window appears.

- **Download Support Logs from the MR controllers:**
 1. Select **Download Support Log** inside the MRSA utility.
 2. Select **Confirm** and then click **Yes Download**.

A window will open.

3. Select **Save file**, and then click **Ok**.

You will be directed to the media folder, where connected USB drives are listed. The volume label is used to identify the drive.

4. Select the drive and click **Save**.



NOTE

VFAT , EXT4 , and HPFS/NTFS/exFAT work as file systems for the USB key.

Using the USB Key utility

The USB Key Utility is a Windows application that copies Intelligent Provisioning or SPP contents, and other CD or DVD images to a USB flash drive. After copying data to the USB flash drive, you can run Intelligent

Provisioning or SPP from the USB flash drive instead of from a CD or DVD. This process is beneficial in headless-server operations. It also simplifies the storage, transportation, and usage of the contents by allowing you to retrieve their images from the web and customize them as needed.

Installing the utility adds a shortcut in System Tools in the Programs Start menu folder.

Features

The USB Key Utility supports:

- ISO files larger than 1 GB.
- Quick Formatting on USB flash drives.
- USB flash drives up to a maximum of 32 GB. USB flash drives larger than 32 GB are not displayed in the utility.

Subtopics

Prerequisites

Creating a bootable USB key

Adding content to a bootable USB key

Troubleshooting

Subtopics

Showing Unable to install without the usb_storage driver loaded, Aborting, when upgrading or installing with rpm

Showing Unable to install without the usb_storage driver loaded, Aborting, when upgrading or installing with rpm

Symptom

When running the command `./hpsetup`, an error message `Unable to install without the usb_storage driver loaded, Aborting` appears on the console.

Cause

The `usb_storage` module is disabled.

Action

Enable the USB storage drive by using `modprobe usb-storage`.

HPE Compute Software and Firmware Product Documentation Quick Links

This infographic provides quick links for documentation for the listed HPE products. It offers easy access to documentation that helps you to understand, implement, and troubleshoot your products.

Each product-specific section lists the current version, the earlier two major versions, and their revisions.



Click each product label to access its documentation

Software & aaS Management platform

Firmware/ System Software

HPE Compute
Ops Management

HPE OneView Plug-ins

HPE iLO

HPE Compute Ops
Management Plug-in for
VMware vCenter

HPE Serviceguard

Intelligent
Provisioning

Integrated
Smart Update Tools

Smart Update Manager

Service Pack for
HPE ProLiant

HPE OneView

HPE VMware ESXi
Server

UEFI
System Utilities

Agentless
Management Service

Navigating the Hewlett Packard Enterprise Support Center

•



Navigation and workspace

•



Search and product knowledge

Subtopics

Intelligent Provisioning Quick Links

This page is a comprehensive list of all the documents for Intelligent Provisioning. It provides quick links to the recent versions of each document.

Intelligent Provisioning Quick Links

This page is a comprehensive list of all the documents for Intelligent Provisioning. It provides quick links to the recent versions of each document.

Documents	Gen12 Servers	Gen11 Servers	Gen10/Gen10 Plus Servers
Intelligent Provisioning Release Notes	<u>5.04</u>	<u>4.37</u>	<u>3.92</u>
	<u>5.03</u>	<u>4.36</u>	<u>3.91</u>
	<u>5.02</u>	<u>4.35</u>	<u>3.90</u>
	<u>5.00</u>	<u>4.32</u>	<u>3.86</u>
Intelligent Provisioning User Guide	<u>5.04</u>	-	-
	<u>5.03</u>	<u>4.34</u>	<u>3.89</u>
	<u>5.02</u>	<u>4.32</u>	<u>3.88</u>
	<u>5.00</u>	<u>4.31</u>	<u>3.86</u>
ProLiant Gen12 Intelligent Provisioning (IP) Debug Document	<u>Gen12</u>		
Alerts-Customer Advisories	<u>All Versions</u>		

Websites

General websites

Single Point of Connectivity Knowledge (SPOCK) Storage compatibility matrix

<https://www.hpe.com/storage/spock>

Technical papers and analyst reports

<https://www.hpe.com/us/en/resource-library>

For additional websites, see [Support and other resources](#).

Support and other resources

Subtopics

[Accessing Hewlett Packard Enterprise Support](#)

[HPE product registration](#)

[Accessing updates](#)

[Remote support](#)

[Warranty information](#)

[Regulatory information](#)

[Documentation feedback](#)

Accessing Hewlett Packard Enterprise Support

- For live assistance, go to the Contact Hewlett Packard Enterprise Worldwide website:

<https://www.hpe.com/info/assistance>

- To access documentation and support services, go to the Hewlett Packard Enterprise Support Center website:

<https://www.hpe.com/support/hpesc>

Information to collect

- Technical support registration number (if applicable)
- Product name, model or version, and serial number
- Operating system name and version
- Firmware version
- Error messages
- Product-specific reports and logs

- Add-on products or components
- Third-party products or components

HPE product registration

To gain the full benefits of the Hewlett Packard Enterprise Support Center and your purchased support services, add your contracts and products to your account on the HPESC.

- When you add your contracts and products, you receive enhanced personalization, workspace alerts, insights through the dashboards, and easier management of your environment.
- You will also receive recommendations and tailored product knowledge to self-solve any issues, as well as streamlined case creation for faster time to resolution when you must create a case.

To learn how to add your contracts and products, see <https://www.hpe.com/info/add-products-contracts>.

Accessing updates

- Some software products provide a mechanism for accessing software updates through the product interface. Review your product documentation to identify the recommended software update method.
- To download product updates:

Hewlett Packard Enterprise Support Center

<https://www.hpe.com/support/hpesc>

My HPE Software Center

<https://www.hpe.com/software/hpesoftwarecenter>

- To subscribe to eNewsletters and alerts:

<https://www.hpe.com/support/e-updates>

- To view and update your entitlements, and to link your contracts and warranties with your profile, go to the Hewlett Packard Enterprise Support Center **More Information on Access to Support Materials** page:



IMPORTANT

Access to some updates might require product entitlement when accessed through the Hewlett Packard Enterprise Support Center. You must have an HPE Account set up with relevant entitlements.

Remote support

Remote support is available with supported devices as part of your warranty or contractual support agreement. It provides intelligent event diagnosis, and automatic, secure submission of hardware event notifications to Hewlett Packard Enterprise, which initiates a fast and accurate resolution based on the service level of your product. Hewlett Packard Enterprise strongly recommends that you register your device for remote support.

If your product includes additional remote support details, use search to locate that information.

HPE Get Connected

<https://www.hpe.com/services/getconnected>

HPE Tech Care Service

<https://www.hpe.com/services/techcare>

HPE Complete Care Service

<https://www.hpe.com/services/completecure>

Warranty information

To view the warranty information for your product, see the [warranty check tool](#).

Regulatory information

To view the regulatory information for your product, view the Safety and Compliance Information for Server, Storage, Power, Networking, and Rack Products, available at the Hewlett Packard Enterprise Support Center:

<https://www.hpe.com/support/Safety-Compliance-EnterpriseProducts>

Additional regulatory information

Hewlett Packard Enterprise is committed to providing our customers with information about the chemical substances in our products as needed to comply with legal requirements such as REACH (Regulation EC No 1907/2006 of the European Parliament and the Council). A chemical information report for this product can be found at:

<https://www.hpe.com/info/reach>

For Hewlett Packard Enterprise product environmental and safety information and compliance data, including RoHS and REACH, see:

<https://www.hpe.com/info/ecodata>

For Hewlett Packard Enterprise environmental information, including company programs, product recycling, and energy efficiency, see:

<https://www.hpe.com/info/environment>

Documentation feedback

Hewlett Packard Enterprise is committed to providing documentation that meets your needs. To help us improve the documentation, use the **Feedback** button and icons (at the bottom of an opened document) on the Hewlett Packard Enterprise Support Center portal (**<https://www.hpe.com/support/hpesc>**) to send any errors, suggestions, or comments. This process captures all document information.