HP ProLiant SCVMM 2012 Integration Kit (v 2012.06.0) User Guide

Abstract

This guide describes the procedures and prerequisites for installing and using the HP ProLiant SCVMM 2012 Integration Kit, which provides support for deploying ProLiant servers as Hyper-V host machines.

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1 Introduction

The HP ProLiant SCVMM 2012 Integration Kit provides the following for SCVMM:

- Support for deploying ProLiant servers as Hyper-V host machines.

The kit contains:

- HP Service Pack for ProLiant Windows Server drivers.

What's New in this release:

Included Component	Version
HP Service Pack for ProLiant	2012.06.0(B)

2 Support matrix

Support System Center products

The kit can be installed on the following versions of SCVMM:

SCVMM 2012

Supported target operating systems

The following operating systems can be deployed to the target servers:

Windows Server 2008 R2 x64 (SP and edition agnostic)

Supported target servers

The following servers can be deployed to:

ProLiant BL420c Gen8 **NEW**	ProLiant BL680c G7	ProLiant DL380e Gen8 **NEW**
ProLiant BL460c G7	ProLiant BL685c G7	ProLiant DL380p Gen8
ProLiant BL460c Gen8	ProLiant DL160 Gen8 **NEW**	ProLiant DL385 G7
ProLiant BL465c G7	ProLiant DL360 G7	ProLiant DL385p Gen8 **NEW**
ProLiant BL465c Gen8 **NEW**	ProLiant DL360e Gen8 **NEW**	ProLiant DL580 G7
ProLiant BL490c G7	ProLiant DL360p Gen8	ProLiant DL585 G7
ProLiant BL620c G7	ProLiant DL380 G7	ProLiant ML350e Gen8 **NEW**

Restrictions:

- Hardware configuration is not supported.
- Performing a correct deployment to servers with multiple storage controllers or multiple disks available (either multiple DAS or SAN attach) is not supported by default.
- Performing a PXE-based deployment through HP NC54# network adapters is not supported.

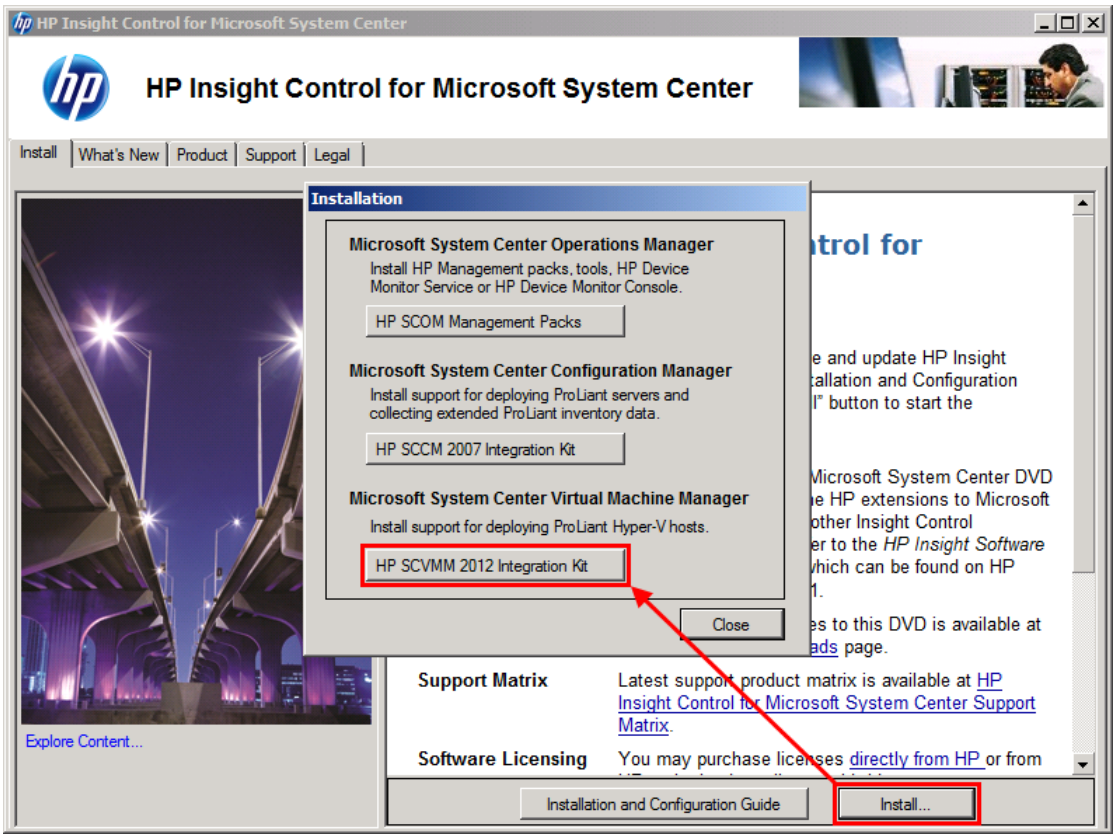
3 Installing and configuring the HP ProLiant SCVMM 2012 Integration Kit

Considerations

- Do not install HP Insight Control server deployment and SCVMM on the same network because they both contain PXE servers.

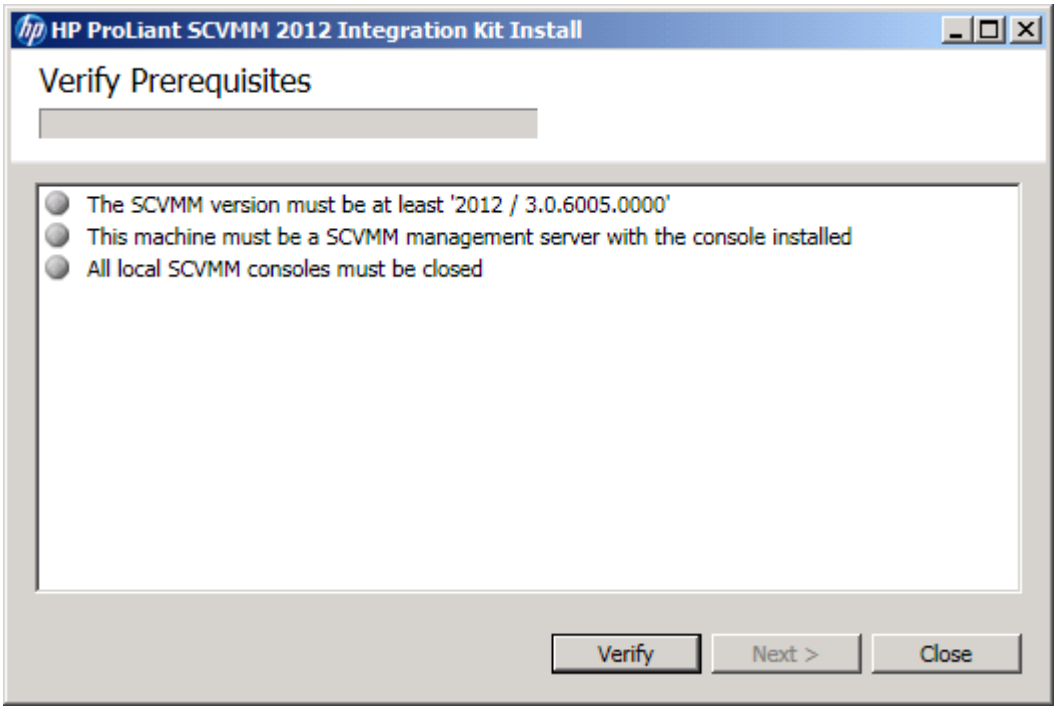
Installation

1. Ensure that the following prerequisites are met:
   - This is a SCVMM management server with the console installed.
   - The logged in user has administrator level privileges.
   - Microsoft .NET Framework 3.5 is installed.
   - All local SCVMM consoles are closed.
   - If this is a SCVMM high availability configuration, then this must be the primary node.
2. On the SCVMM management server, start the installation from the HP Insight Control for Microsoft System Center image by executing `autorun.exe`. Click **Install**, and then click **HP SCVMM 2012 Integration Kit**.



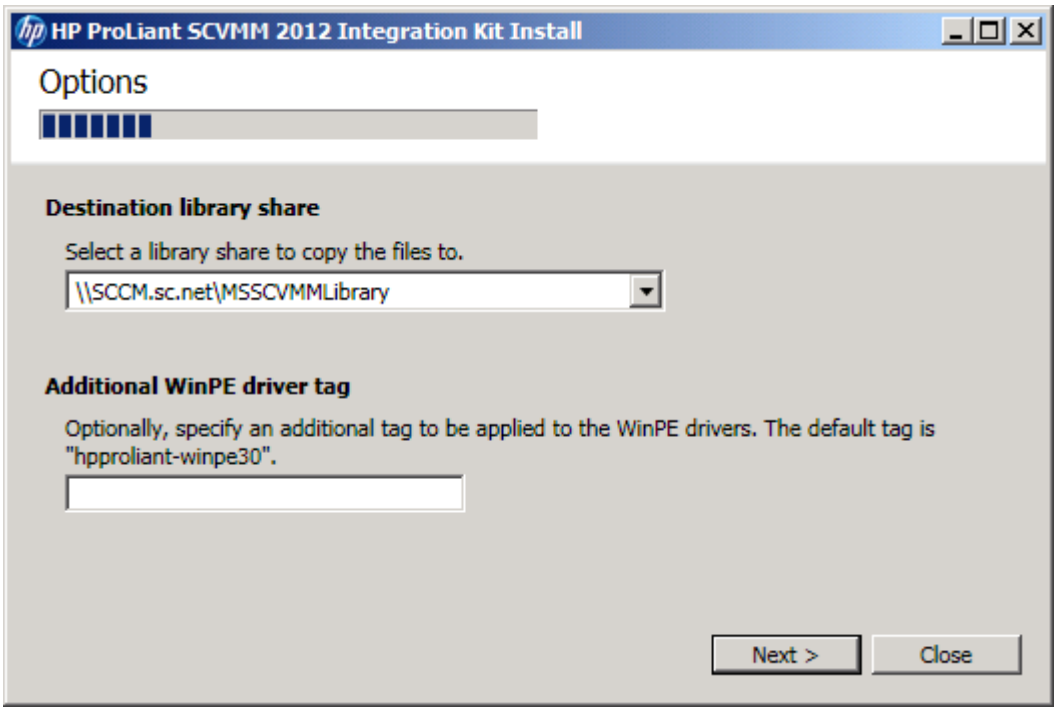
3. On the **License Agreement** screen, click **Agree**.
4. On the **Verify Prerequisites** screen, click **Verify**.

   If the verification fails, make the necessary corrections and click **Verify** again.



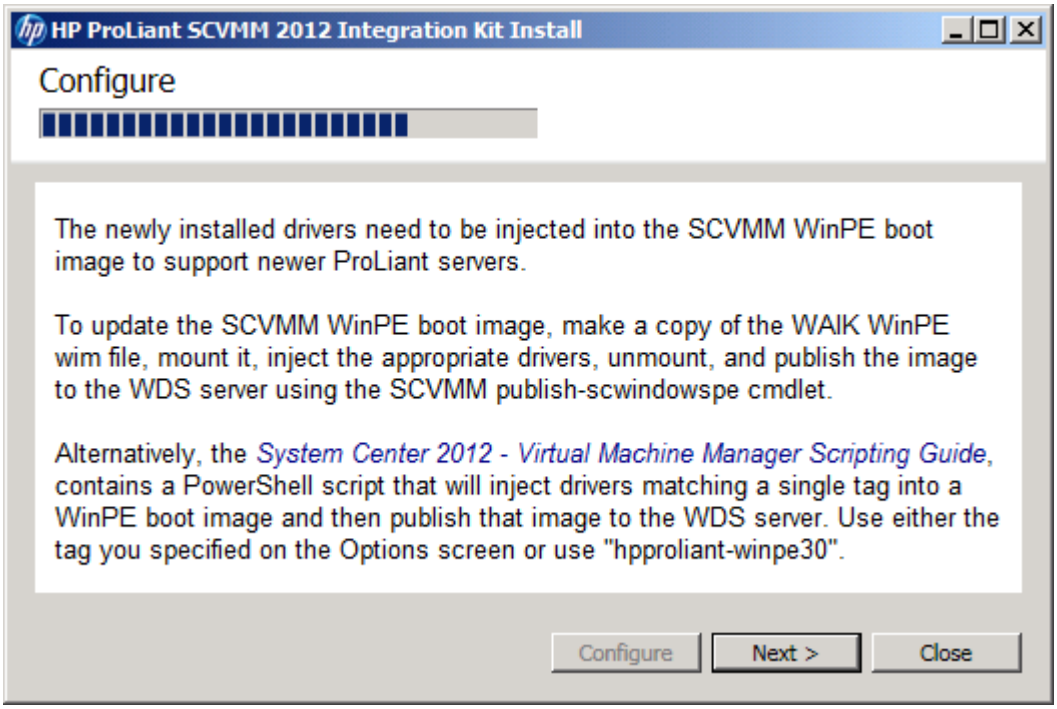
5. When the verification is successful, click **Next**.
6. When performing a first-time install, on the **Options** screen, select a destination library share, specify an additional WinPE driver tag, and click **Next**.

NOTE: If you wish to use WinPE drivers from multiple vendors, HP recommends that all of the drivers have a common tag. When you inject the drivers into the WinPE boot image using the Microsoft PowerShell script, you can do so by specifying a single tag.



7. On the **Install** screen, click **Install**.
8. When the installation is successful, click **Next**.

9. On the **Configure** screen, make note of the further actions that need to be completed. See "Configuration" (page 8) for further details.



10. On the **Summary** screen, click **Close**.

    The installation log is named `hpproliantscvmm2012kit-install.log` and is located in the Windows directory.

Configuration

By default, the SCVMM WinPE boot image does not support newer ProLiant servers. The kit installs additional WinPE drivers into the library. These drivers need to be injected into the SCVMM WinPE boot image to support newer ProLiant servers.

To update the SCVMM WinPE boot image, make a copy of the WAIK WinPE wim file, mount it, inject the appropriate drivers, unmount, and publish the image to the WDS server using the SCVMM publish-scwindowspe cmdlet.

Alternatively, the *System Center 2012 – Virtual Machine Manager Scripting Guide*, located at http://technet.microsoft.com/en-us/library/hh875040.aspx, contains a PowerShell script that will inject drivers matching a single tag into a WinPE boot image and then publish that image to the WDS server. Use either the tag you specified on the Options screen or use `hpproliant-winpe30`.

4 Deploying Hyper-V to ProLiant servers

Hardware configuration

If you need any special hardware configuration beyond the defaults, for example a custom RAID level, use the appropriate tool such as the Option ROM configuration or an STK utility.

Hyper-V host deployment

Deploying a Hyper-V host to a bare-metal ProLiant server follows the standard SCVMM methodology – create a host profile and use the **Add Resource: Hyper-V Host and Clusters** wizard to discover and deploy.

IMPORTANT: On the **Credentials and protocol** screen, specify a **Run As account** that has valid iLO administrator credentials and set **Protocol** to **Intelligent Platform Management Interface (IPMI)**.

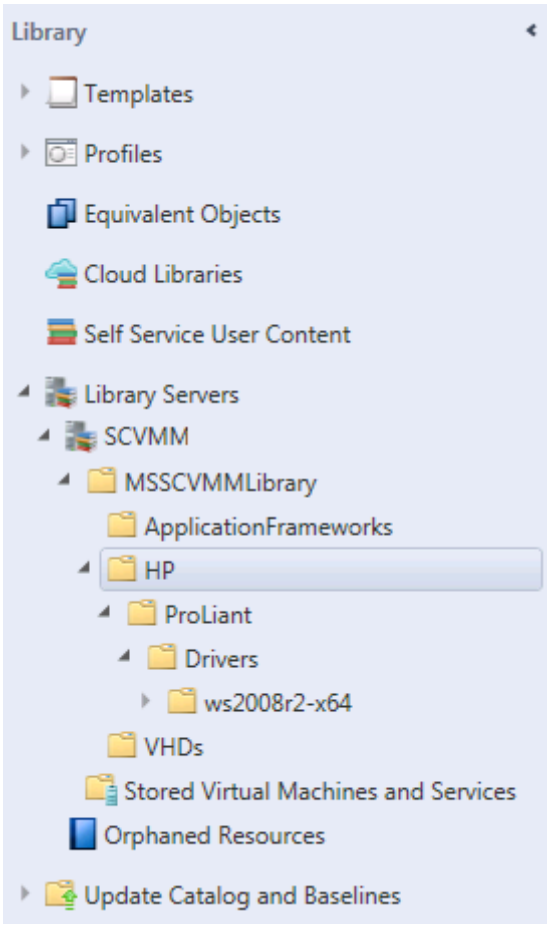
Post-OS configuration

After deploying the Hyper-V host, use the Update Catalog functionality with the HP ProLiant Updates Catalog to install other necessary software, such as iLO drivers and agents. Refer to the *HP ProLiant Updates Catalog User Guide* for more details.

5 Reference

Library

The kit installs the supplied drivers to the specified library share. The top-level folder structure is HP\ProLiant\Drivers. Under Drivers is a subfolder for each supported operating system. For example:



Drivers and tags

Driver Set	Tag	Note
Windows Server 2008 R2 x64	hpproliant-ws2008r2-x64	Network and storage drivers.
WinPE 3.0 x64	hpproliant-winpe30	Most, but not all, of the Windows Server 2008 R2 x64 drivers

6 Troubleshooting

Deployment fails on some new servers under certain upgrade conditions

After upgrading from 2012.02.0 to 2012.06.0 and rebuilding the WinPE boot image using the Microsoft Powershell script with a custom tag, some new servers are not supported

The additional WinPE tag specified during the 2012.02.0 install was not recorded and applied to the new drivers, so those drivers were not selected by the Powershell script.

To resolve this issue:

1. Apply your tag to the elxfc, hpsa2, ixn62x64, and ql40xx drivers either in the console or in the Powershell command prompt.
2. In the HKLM\SOFTWARE\Microsoft\Microsoft System Center Virtual Machine Manager Administrator Console\HP\ProLiant registry key, create a string value of `UserWinPETag =` *your tag*.

Unable to uninstall kit in certain HA configuration situations

When the kit is installed on the primary node, the uninstaller is added to its Program and Features. There is nothing installed on the secondary node. If the primary node fails and has to be rebuilt, it will be missing that entry and the secondary node won't have it.

To resolve this issue:

1. Reinstall the kit on the secondary node. The drivers will be reinstalled and the uninstaller will be added to Program and Features.
2. Execute the uninstaller.

7 Support and other resources

Information to collect before contacting HP

Be sure to have the following information available before you contact HP:

- Software product name
- Hardware product model number
- Operating system type and version
- Applicable error message
- Third-party hardware or software
- Technical support registration number (if applicable)

How to contact HP

Use the following methods to contact HP technical support:

- See the Contact HP worldwide website:
  http://www.hp.com/go/assistance
- Use the Contact HP link on the HP Support Center website:
  http://www.hp.com/go/hpsc
- In the United States, call +1 800 334 5144 to contact HP by telephone. This service is available 24 hours a day, 7 days a week. For continuous quality improvement, conversations might be recorded or monitored.

Registering for software technical support and update service

Insight Management includes one year of 24 x 7 HP Software Technical Support and Update Service. This service provides access to HP technical resources for assistance in resolving software implementation or operations problems.

The service also provides access to software updates and reference manuals in electronic form as they are made available from HP. Customers who purchase an electronic license are eligible for electronic updates.

With this service, Insight Management customers benefit from expedited problem resolution as well as proactive notification and delivery of software updates. For more information about this service, see the following website:

http://www.hp.com/services/insight

Registration for this service takes place following online redemption of the license certificate.

How to use your software technical support and update service

As HP releases updates to software, the latest versions of the software and documentation are made available to you. The Software Updates and Licensing portal gives you access to software, documentation, and license updates for products on your HP software support agreement.

You can access this portal from the HP Support Center:

http://www.hp.com/go/hpsc

After creating your profile and linking your support agreements to your profile, see the Software Updates and Licensing portal at http://www.hp.com/go/hpsoftwareupdatesupport to obtain software, documentation, and license updates.

Warranty information

HP will replace defective delivery media for a period of 90 days from the date of purchase. This warranty applies to all Insight Management products.

HP authorized resellers

For the name of the nearest HP authorized reseller, see the following sources:

- In the United States, see the HP U.S. service locator website:
  http://www.hp.com/service_locator
- In other locations, see the Contact HP worldwide website:
  http://www.hp.com/go/assistance

Related information

- HP Insight Control for Microsoft System Center documentation website:
  http://www.hp.com/go/icsc/docs
- HP Insight Management WBEM Providers documentation
- HP Insight Management Agents documentation
- HP ProLiant servers:
  http://www.hp.com/go/proliant

Typographic conventions

This document uses the following typographical conventions:

Book title	The title of a book. On the web, this can be a hyperlink to the book itself.
`Command`	A command name or command phrase, for example `ls -a`.
`Computer output`	Information displayed by the computer.
Ctrl+x or **Ctrl-x**	A key sequence that indicates you must hold down the keyboard key labeled **Ctrl** while you press the letter `x`.
`ENVIRONMENT VARIABLE`	The name of an environment variable, for example, `PATH`.
Key	The name of a keyboard key. **Return** and **Enter** both refer to the same key.
Term	A term or phrase that is defined in the body text of the document, not in a glossary.
`User input`	Indicates commands and text that you type exactly as shown.
`Replaceable`	The name of a placeholder that you replace with an actual value.
[ ]	In command syntax statements, these characters enclose optional content.
{ }	In command syntax statements, these characters enclose required content.
|	The character that separates items in a linear list of choices.
…	Indicates that the preceding element can be repeated one or more times.
WARNING	An alert that calls attention to important information that, if not understood or followed, results in personal injury.

CAUTION	An alert that calls attention to important information that, if not understood or followed, results in data loss, data corruption, or damage to hardware or software.
IMPORTANT	An alert that calls attention to essential information.
NOTE	An alert that contains additional or supplementary information.
TIP	An alert that provides helpful information.

8 Documentation feedback

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Glossary

CDM	Custom Data Manager
DMC	Device Monitor Console
DMS	Device Monitor Service
OSD	Operating System Deployment
PSP	HP ProLiant Support Pack
SCCM	System Center Configuration Manager
SCOM	System Center Operations Manager
SCUP	System Center Updates Publisher
SCVMM	System Center Virtual Machine Manager
SPP	HP Service Pack for ProLiant
STK	HP Scripting Toolkit
SUM	HP Smart Update Manager
WSUS	Windows Server Update Services