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Smart Update Tools 2.3.6 for VMware ESXi Release Notes

Abstract

This document describes release information about this version of the Smart Update Tools. This document is intended for individuals who understand the configuration and operations of Microsoft Windows Server, Linux, smart components, and the risk of data loss from performing updates.

Part Number: 870859-005
Published: November 2018
Edition: 1

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Smart Update Tools for ESXi

Smart Update Tools is a software utility used with iLO 4 (Gen8 and Gen9 servers), HPE OneView, Service Pack for ProLiant (SPP), and Smart Update Manager (SUM) to stage, install, and activate firmware and driver updates.

NOTE: HPE OneView manages the systems using iLO interface. SUT for ESXi runs on a RHEL 7.2 or RHEL 6.6 VM or a standalone system deploys the updates requested by HPE OneView. The same administrator might not manage the iLO and the operating system. Create a process that notifies the administrators when updates are available.

- **Smart Update Tools:** Polls HPE OneView for updates through the management network and orchestrates staging, deploying, and activating updates with Smart Update Manager (SUM). Performs inventory on target servers, stages deployment, deploys updates, and then reboots the servers.

The VMware ESXi installation component is provided as a Red Hat Enterprise Linux RPM component.

- **HPE OneView:** HPE OneView displays available updates for servers. Communicates with SUT to initiate updates, reports the status on the **Firmware** section of the **Server Profile** page of HPE OneView. HPE OneView provides automated compliance reporting in the dashboard.
- **SPP:** A comprehensive systems software and firmware update solution, which is delivered as a single ISO image.
- **SUM:** A tool for firmware and driver maintenance for HPE ProLiant servers and associated options.

Version details

Product version is 2.3.6

Supersede information

SUT for VMware ESXi 2.3.0

Update recommendation

Recommended - Includes new enhancements, features, and/or minor bug fixes. Hewlett Packard Enterprise recommends all customers to update at their earliest convenience.

Operating systems

Linux 64-bit

Languages

English

Fixes

- SUT for VMware ESXi now closes the sessions opened with VMware vCenter.
- Multiple issues causing SUT for VMware ESXi to abnormally exit are fixed.
- A memory leak issue which caused high RAM consumption by SUT for VMware ESXi is now fixed.

Prerequisites

Before deploying any components to a system:

- A recent backup is available.
- At least 4 GB of free disk space is available.
- An unzip utility is installed.
- Network ports are opened. For more information, see the SUM documentation at <http://www.hpe.com/info/sum-docs>.

The following lists the products and versions supported by SUT:

Smart Update Manager

7.6.0 or later

iLO 4

2.31 or later

SPP

2016.10.0 or later

SUM Linux library dependencies

- libcrypt.so
- libcrypt.so.1
- /usr/lib/libqldsmdm.so
- /usr/lib64/libqldsmdm-x86_64.so
- /lib/cim/libqldsmdm.so
- /usr/lib/libemsdmdm.so
- /usr/lib64/libemsdmdm.so
- /lib/cim/libemsdmdm.so
- /usr/lib/bfahbaapi.so
- /usr/lib64/bfahbaapi.so
- /lib/cim/bfahbaapi.so
- linux-vdso.so.1
- /lib64/libpthread.so.0
- /lib64/libz.so.1
- /lib64/libdl.so.2
- /lib64/librt.so.1
- /usr/lib64/libstdc++.so.6
- /lib64/libm.so.6
- /lib64/libgcc_s.so.1

- /lib64/libc.so.6
- /lib64/ld-linux-x86-64.so.2

Required Linux utilities

- coreutils
 - cut
 - ls
 - rm
 - uname
 - cat
 - chmod
 - chown
 - nohup
 - stat
 - su
 - echo
 - mkdir
 - find
 - mv
 - mknod
 - kcmodule
 - reboot
 - cd
 - exit
 - shutdown
 - df
 - wc
 - id
 - dirname
- mkisofs—Required for creating custom ISO images for legacy (BIOS) nodes.
- xorriso—Required to create ISO images for UEFI nodes.
- sed
- rpm
- bash

- util-linux
 - kill
 - killall
- shutdown
- module-init-tools(lsmmod)
- pciutils(lspci)
- gawk
- awk
- grep
- sambantim_auth
- uuid
- procps
- dmidecode
- ipmitool
- sudo—Required to use sudo credentials for remote nodes.
- model
- dirname
- df
- GNU Dev Tools
 - strings
- ldd
- ldconfig
- rpm2cpio—Required for extracting the RPM package files.
- cpio—Required for extracting the RPM package files.
- unzip
- mount

Downloading and installing SUT

Download SUT from <http://www.hpe.com/servers/sut>. Downloads do not include firmware, software, or drivers. Install the RPM to your node.

Installing or updating to the latest version

Procedure

1. Download `sutesxi-2.3.6-xx.linux.x86_64.rpm` from <http://spp.hpe.com/custom>.
Do not download the Base SPP, it does not contain the necessary SUT components.
2. Do one of the following:

- If `sutesxi` is already installed, use the following command:

```
rpm -Uvh sutesxi-2.3.6-xx.linux.x86_64.rpm
```
- If you are installing SUT for the first time, use the following command:

```
rpm -ivh sutesxi-2.3.6-xx.linux.x86_64.rpm
```

Verifying SUT installation

Procedure

Issue the following command on the host.

```
sutesxi -status
```

If SUT is installed, the system displays SUT settings. For example, mode and baseline version.

Issues and workarounds

- On any HPE ProLiant server running VMware ESXi 6.0 U3 and configured with certain network adapters, the Intel native drivers (`igbn`, `ixgben`, and `i40en`) do not support the HPE Agentless Management System (AMS). For more information, see https://support.hpe.com/hpsc/doc/public/display?docId=emr_na-a00045077en_us.
- Update to VMware ESXi 6.7 is skipped for Gen8 and Gen9 systems.
- Server does not move to Activated state after reboot.

Suggested Action: When a vCenter server is not able to communicate with the ESXi system, SUT cannot gather the required information to determine whether the ESXi target has been rebooted. Use the VMware vSphere client to connect to the vCenter server to check whether the VMware ESXi host is showing as disconnected. If the VMware ESXi server is showing as disconnected, connect the VMware ESXi host using the option shown in the VMware vSphere client.

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