Hewlett Packard Enterprise

Red Hat Enterprise Linux 6.8 Supplement for Service Pack for ProLiant 2016.04.0 Release Notes

Published
June 2016
Initial Release

Document History:

Released	Description
June 2016	Initial Version

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Overview

A Service Pack for ProLiant (SPP) Supplement is a bundle containing software and/or firmware components with HP SUM as the deployment tool. It includes support for a new operating system update or functionality that is not included in the SPP but works with the components in the SPP. The software and firmware included in the Supplement will provide support for functionality that is required outside a normal SPP release cycle. Supplements allow HPE to deliver support when it is needed so customers do not have to wait on a full SPP's availability.

Each SPP Supplement's version number will match the version of its corresponding SPP. Supplement Release Notes include information on the components in the bundle. If the Supplement's contents include Linux components, the components will also be available on the Linux Software Delivery Repository (SDR). Once released, the functionality of the SPP Supplement contents is included in the next available SPP.

Hot Fixes associated with an SPP work with an SPP Supplement. For more information on SPP Hot Fixes, please see the Hot Fixes & Advisories tab on SPP download page.

This Supplement is the Red Hat Enterprise Linux (RHEL) 6.8 Supplement for Service Pack for ProLiant 2016.04.0 and provides RHEL 6.8 support for HPE ProLiant products. It is a RHEL 6.8 only release and is designed to work with SPP 2016.04.0.

For more information on which servers are supported with RHEL 6.8, please visit our OS Support Site at: http://www.hpe.com/servers/ossupport.

Product Name	Comment
Red Hat Enterprise Linux 6.8 Supplement for Service Pack for ProLiant 2016.04.0	Bundle containing software components Filename: supspp-2016.04.0.rhel6.8.en.tar.gz

Update recommendation:

Optional - Users should update to this version if their system is affected by one of the documented fixes or if there is a desire to utilize any of the enhanced functionality provided by this version.

Aligns With:

Service Pack for ProLiant 2016.04.0

Summary of Changes

Important Notes

When the terms, Supplement, Service Pack for ProLiant or SPP are used throughout this document, they refer to all of the deliverables in the Table in the Overview Section unless explicitly stated.

⚠ **Before deploying any components to a system, be sure that a recent backup of the system is available in the event the deployment procedure fails.**

⚠ **The Brocade Fibre Channel Enablement Kit is not available for RHEL 6.8. If you need to use the firmware flash component to flash your Brocade Fibre Channel HBAs, use Service Pack for ProLiant in offline mode.**

Release Summary

The summary of this Red Hat Enterprise Linux (RHEL) 6.8 Supplement for Service Pack for ProLiant release is:

Added support for Red Hat Enterprise Linux 6.8.

You may choose to use the drivers delivered with the RHEL 6.8 distribution instead of those found in this Supplement. The initial release of the distribution drivers may not contain all of the HPE value added features at this time. These features will be added in a future release.

Compatibility

This Supplement corresponds with SPP 2016.04.0.

HP SUM and all components delivered in this Supplement to the Service Pack for ProLiant (SPP) are tested together and meet the dependencies of the other components in the Service Pack for ProLiant.

Systems using software and firmware components delivered with the following products should be able to easily migrate to the components in this SPP:

Product	Version
Service Pack for ProLiant	2016.04.0 2015.10.0 2015.06.0

Support

HPE supports each SPP version for 12 months. Customers may choose to update their SPP from an earlier version to this version as long as the earlier version is within its 12 month support period. This means that customers may directly update their SPP by skipping intermediate releases within the 12 month support period. See the table in the Compatibility section for details on the components contained in earlier SPPs that can migrate to this SPP.

You can tell when your support period ends by the version number of the release. For example, if you have installed the content of SPP 2016.04.0 your support would end the last day of April, 2017 based on version 2016=year, 04= month, 0=full release id number. Sometimes it is necessary to release an SPP with a version that would have less than 12 months of support per the information noted above. In these cases, you can use the table below to see when the support period ends:

SPP Version	End of Support Period
2016.04.0	April 30, 2017
2015.10.0	October 31, 2016
2015.06.0	June 30, 2016

The support period for this Supplement aligns with the support period with its corresponding SPP 2016.04.0.

Prerequisites

Running HP SUM on Linux

⚠ **Before deploying software updates on a target system, be sure that a recent backup of the target system is available in the event the deployment procedure fails.**

To successfully deploy HP SUM on remote target systems based on a Linux operating system, the following must be available:

- libcrypt.so
- libcrypt.so.1
- /usr/lib/libqlsdm.so
- /usr/lib64/libqlsdm-x86_64.so
- /lib/cim/libqlsdm.so
- /usr/lib/libemsdm.so
- /usr/lib64/libemsdm.so
- /lib/cim/libemsdm.so
- /usr/lib/bfahbaapi.so
- /usr/lib64/bfahbaapi.so
- /lib/cim/bfahbaapi.so

- linux-vdso.so.1
- /lib64/libcrypt.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

Deployment Instructions

The Supplement is designed for use after you install the operating system so that you can update drivers, install HPE utilities (such as Health and iLO drivers), and install agents (Server, NIC, and Storage).

You have a choice when using the SPP Supplement and its corresponding SPP on a supported Linux operating system:

- You can use the software and firmware provided in the Supplement and the SPP.
- You can use the firmware provided in the SPP and get the software from the Software Delivery Repository at http://downloads.linux.hpe.com/SDR.
- You can use the firmware and software utilities provided in the SPP and get the drivers from the operating system distro.

If you decide to use the software and firmware provided in the Supplement and the SPP, you can follow these steps:

1. Download the SPP 2016.04.0 .iso file from the SPP download page, http://www.hpe.com/servers/spp/download if you want to update firmware and do not already have it locally. See the SPP 2016.04.0 Release Notes for more information on SPP deployment.
2. Download the appropriate Supplement from the SPP download page, http://www.hpe.com/servers/spp/download
3. Extract the contents of the SPP Supplement and SPP ISO (if needed) to a file share.
4. Determine how you want to access the data on the ISO – bootable USB key, mounted ISO, mounted DVD, etc. Use the appropriate tool to get the SPP ISO in the format you want to access it. The contents of the Supplement can be placed in any directory since the Supplement is a bundle and not an ISO.
5. Initiate deployment.
    - To initiate deployment, go directly to HP SUM 7.5.1. and launch it using the command: /hpsum
    - Follow the instructions on the screen.
        - On the Source Selection screen, set the directories where the contents of the Supplement and the SPP (if needed) as repositories from where to get the components to be installed.

Component Release Notes

Driver - Storage Controller
Driver - Storage Fibre Channel and Fibre Channel Over Ethernet
Software - Lights-Out Management
Software - Storage Fibre Channel HBA
Software - System Management

Driver - Storage Controller

Top

HP Dynamic Smart Array B120i/B320i SATA RAID Controller Driver for Red Hat Enterprise Linux 6 (AMD64/EM64T)

Version: 1.2.14-111 (Recommended)
Filename: kmod-hpvsa-1.2.14-111.rhel6u1.x86_64.rpm; kmod-hpvsa-1.2.14-111.rhel6u2.x86_64.rpm; kmod-hpvsa-1.2.14-111.rhel6u3.x86_64.rpm; kmod-hpvsa-1.2.14-111.rhel6u4.x86_64.rpm; kmod-hpvsa-1.2.14-111.rhel6u5.x86_64.rpm; kmod-hpvsa-1.2.14-111.rhel6u6.x86_64.rpm; kmod-hpvsa-1.2.14-111.rhel6u7.x86_64.rpm; kmod-hpvsa-1.2.14-111.rhel6u8.x86_64.rpm

Enhancements

Added support for Red Hat Enterprise Linux 6 Update 8.

Supported Devices and Features

SUPPORTED KERNELS:
The kernels of Red Hat Enterprise Linux 6 (AMD64/EM64T) supported by this driver diskette are:

2.6.32-131.el6 - Red Hat Enterprise Linux 6 Update 1(AMD64/EM64T) and future errata kernels for update 1.
2.6.32-220.el6 - Red Hat Enterprise Linux 6 Update 2(AMD64/EM64T) and future errata kernels for update 2.
2.6.32-279.el6 - Red Hat Enterprise Linux 6 Update 3(AMD64/EM64T) and future errata kernels for update 3.
2.6.32-358.el6 - Red Hat Enterprise Linux 6 Update 4(AMD64/EM64T) and future errata kernels for update 4.
2.6.32-431.el6 - Red Hat Enterprise Linux 6 Update 5(AMD64/EM64T) and future errata kernels for update 5.
2.6.32-504.el6 - Red Hat Enterprise Linux 6 Update 6(AMD64/EM64T) and future errata kernels for update 6.
2.6.32-573.el6 - Red Hat Enterprise Linux 6 Update 7(AMD64/EM64T) and future errata kernels for update 7.
2.6.32-642.el6 - Red Hat Enterprise Linux 6 Update 8(AMD64/EM64T) and future errata kernels for update 8.

HP Dynamic Smart Array B120i/B320i SATA RAID Controller Driver for Red Hat Enterprise Linux 6 (x86)

Version: 1.2.14-111 (Recommended)
Filename: kmod-hpvsa-1.2.14-111.rhel6u1.i686.rpm; kmod-hpvsa-1.2.14-111.rhel6u2.i686.rpm; kmod-hpvsa-1.2.14-111.rhel6u3.i686.rpm; kmod-hpvsa-1.2.14-111.rhel6u4.i686.rpm; kmod-hpvsa-1.2.14-111.rhel6u5.i686.rpm; kmod-hpvsa-1.2.14-111.rhel6u6.i686.rpm; kmod-hpvsa-1.2.14-111.rhel6u7.i686.rpm; kmod-hpvsa-1.2.14-111.rhel6u8.i686.rpm

Enhancements

Added support for Red Hat Enterprise Linux 6 Update 8.

Supported Devices and Features

SUPPORTED KERNELS:
The kernels of Red Hat Enterprise Linux 6 (x86) supported by this binary rpm are:

2.6.32-131.el6 - Red Hat Enterprise Linux 6 Update 1(x86) and future errata kernels for update 1.
2.6.32-220.el6 - Red Hat Enterprise Linux 6 Update 2(x86) and future errata kernels for update 2.
2.6.32-279.el6 - Red Hat Enterprise Linux 6 Update 3(x86) and future errata kernels for update 3.
2.6.32-358.el6 - Red Hat Enterprise Linux 6 Update 4(x86) and future errata kernels for update 4.
2.6.32-431.el6 - Red Hat Enterprise Linux 6 Update 5(x86) and future errata kernels for update 5.
2.6.32-504.el6 - Red Hat Enterprise Linux 6 Update 6(x86) and future errata kernels for update 6.
2.6.32-573.el6 - Red Hat Enterprise Linux 6 Update 7(x86) and future errata kernels for update 7.
2.6.32-642.el6 - Red Hat Enterprise Linux 6 Update 8(x86) and future errata kernels for update 8.

HP Dynamic Smart Array B140i SATA RAID Controller Driver for Red Hat Enterprise Linux 6 (AMD64/EM64T)

Version: 1.2.8-108 **(Recommended)**
Filename: kmod-hpdsa-1.2.8-108.rhel6u5.x86_64.rpm; kmod-hpdsa-1.2.8-108.rhel6u6.x86_64.rpm; kmod-hpdsa-1.2.8-108.rhel6u7.x86_64.rpm; kmod-hpdsa-1.2.8-108.rhel6u8.x86_64.rpm

Enhancements

Added support for Red Hat Enterprise Linux 6 Update 8.

Supported Devices and Features

SUPPORTED KERNELS:
The kernels of Red Hat Enterprise Linux 6 (AMD64/EM64T) supported by this driver diskette are:
2.6.32-431.el6 - Red Hat Enterprise Linux 6 Update 5(AMD64/EM64T) and future errata kernels for update 5.
2.6.32-504.el6 - Red Hat Enterprise Linux 6 Update 6(AMD64/EM64T) and future errata kernels for update 6.
2.6.32-573.el6 - Red Hat Enterprise Linux 6 Update 7(AMD64/EM64T) and future errata kernels for update 7.
2.6.32-642.el6 - Red Hat Enterprise Linux 6 Update 8(AMD64/EM64T) and future errata kernels for update 8.

HP ProLiant Smart Array Controller (AMD64/EM64T) Driver for Red Hat Enterprise Linux 6 (AMD64/EM64T)

Version: 3.4.14-118 **(Recommended)**
Filename: kmod-hpsa-3.4.14-118.rhel6u1.x86_64.rpm; kmod-hpsa-3.4.14-118.rhel6u2.x86_64.rpm; kmod-hpsa-3.4.14-118.rhel6u3.x86_64.rpm; kmod-hpsa-3.4.14-118.rhel6u4.x86_64.rpm; kmod-hpsa-3.4.14-118.rhel6u5.x86_64.rpm; kmod-hpsa-3.4.14-118.rhel6u6.x86_64.rpm; kmod-hpsa-3.4.14-118.rhel6u7.x86_64.rpm; kmod-hpsa-3.4.14-118.rhel6u8.x86_64.rpm

Enhancements

Added support for Red Hat Enterprise Linux 6 Update 8.

Supported Devices and Features

SUPPORTED KERNELS:
The kernels of Red Hat Enterprise Linux 6 (AMD64/EM64T) supported by this driver diskette are:
2.6.32-131.el6 - Red Hat Enterprise Linux 6 Update 1 (AMD64/EM64T) and future errata kernels for update 1.
2.6.32-220.el6 - Red Hat Enterprise Linux 6 Update 2 (AMD64/EM64T) and future errata kernels for update 2.
2.6.32-279.el6 - Red Hat Enterprise Linux 6 Update 3 (AMD64/EM64T) and future errata kernels for update 3.

2.6.32-358.el6 - Red Hat Enterprise Linux 6 Update 4 (AMD64/EM64T) and future errata kernels for update 4.
2.6.32-431.el6 - Red Hat Enterprise Linux 6 Update 5 (AMD64/EM64T) and future errata kernels for update 5.
2.6.32-504.el6 - Red Hat Enterprise Linux 6 Update 6 (AMD64/EM64T) and future errata kernels for update 6.
2.6.32-573.el6 - Red Hat Enterprise Linux 6 Update 7(AMD64/EM64T) and future errata kernels for update 7.
2.6.32-642.el6 - Red Hat Enterprise Linux 6 Update 8(AMD64/EM64T) and future errata kernels for update 8.

HP ProLiant Smart Array Controller (x86/AMD32) Driver for Red Hat Enterprise Linux 6 (x86)

Version: 3.4.14-118 **(Recommended)**
Filename: kmod-hpsa-3.4.14-118.rhel6u1.i686.rpm; kmod-hpsa-3.4.14-118.rhel6u2.i686.rpm; kmod-hpsa-3.4.14-118.rhel6u3.i686.rpm; kmod-hpsa-3.4.14-118.rhel6u4.i686.rpm; kmod-hpsa-3.4.14-118.rhel6u5.i686.rpm; kmod-hpsa-3.4.14-118.rhel6u6.i686.rpm; kmod-hpsa-3.4.14-118.rhel6u7.i686.rpm; kmod-hpsa-3.4.14-118.rhel6u8.i686.rpm

Enhancements

Added support for Red Hat Enterprise Linux 6 Update 8.

Supported Devices and Features

SUPPORTED KERNELS:
The kernels of Red Hat Enterprise Linux 6 (x86) supported by this driver diskette are:
2.6.32-131.el6 - Red Hat Enterprise Linux 6 Update 1(x86) and future errata kernels for update 1.
2.6.32-220.el6 - Red Hat Enterprise Linux 6 Update 2(x86) and future errata kernels for update 2.
2.6.32-279.el6 - Red Hat Enterprise Linux 6 Update 3(x86) and future errata kernels for update 3.
2.6.32-358.el6 - Red Hat Enterprise Linux 6 Update 4(x86) and future errata kernels for update 4.
2.6.32-431.el6 - Red Hat Enterprise Linux 6 Update 5(x86) and future errata kernels for update 5.
2.6.32-504.el6 - Red Hat Enterprise Linux 6 Update 6(x86) and future errata kernels for update 6.
2.6.32-573.el6 - Red Hat Enterprise Linux 6 Update 7(x86) and future errata kernels for update 7.
2.6.32-642.el6 - Red Hat Enterprise Linux 6 Update 8(x86) and future errata kernels for update 8.

Driver - Storage Fibre Channel and Fibre Channel Over Ethernet

Top

Red Hat Enterprise Linux 6 Server (x86-64) FCoE/FC Driver Kit for HPE Qlogic CNAs, HBAs and mezzanine HBAs

Version: 8.07.00.29.06.0-k1 (b) **(Recommended)**
Filename: kmod-qlgc-qla2xxx-8.07.00.29.06.0_k1-2.rhel6u6.x86_64.rpm; kmod-qlgc-qla2xxx-8.07.00.29.06.0_k1-2.rhel6u7.x86_64.rpm; kmod-qlgc-qla2xxx-8.07.00.29.06.0_k1-2.rhel6u8.x86_64.rpm

Important Note!

Release Notes

HPE StoreFabric QLogic Adapters Release Notes

Note: The rpm base-name for the QLogic driver has been changed to "qlgc". Upgrades from the earlier "hpqlgc" driver are supported.

Fixes

Maintenance updates made to driver including

- Defer marking device lost when receiving an RSCN.
- Removed unneeded link offline message
- Restructured RDP routine to handle failure cases.
- Fixed invalid offset reference of inquiry response data.
- Fixed issue where the scsi status was getting overwritten
- Improved upon T10 DIF implementation

Enhancements

Initial driver for RHEL6.8

Driver version 8.07.00.29.06.0-k1

Supported Devices and Features

This driver supports the following HP adapters:

- HP FC1142SR 4Gb PCIe Host Bus Adapter
- HP FC1242SR 4Gb PCIe DC Host Bus Adapter
- HP 81Q PCIe Fibre Channel Host Bus Adapter
- HP 82Q 8Gb Dual Port PCIe Fibre Channel Host Bus Adapter
- QLogic QMH2562 8Gb Fibre Channel Host Bus Adapter for c-Class BladeSystem
- QLogic QMH2462 4Gb Fibre Channel Host Bus Adapter for c-Class BladeSystem
- HP QMH2572 8Gb Fibre Channel Host Bus Adapter for c-Class BladeSystem
- HP StoreFabric SN1000Q 16Gb PCIe Fibre Channel Host Bus Adapter
- HP QMH2672 16Gb FC HBA for c-Class BladeSystem
- HP FlexFabric 10Gb 2-port 526FLR-SFP+ Adapter
- HP CN1000Q Dual Port Converged Network Adapter

Software - Lights-Out Management

Top

HP Lights-Out Online Configuration Utility for Linux (AMD64/EM64T)

Version: 4.6.0-0 **(Optional)**
Filename: hponcfg-4.6.0-0.x86_64.rpm

Prerequisites

This utility requires the following minimum firmware revisions:

- Integrated Lights-Out 2 firmware v1.00 or later
- Integrated Lights-Out 3 firmware v1.00 or later
- Integrated Lights-Out 4 firmware v1.00 or later

The management interface driver and management agents must be installed on the server.

Fixes

HPONCFG displays an appropriate error message with -w option when LOCK_CONFIGURATION is enabled.

HP Lights-Out Online Configuration Utility for Linux (x86/AMD32)
Version: 4.6.0 (Optional)
Filename: hponcfg-4.6.0-0.i386.rpm

Prerequisites

This utility requires the following minimum firmware revisions:

- Integrated Lights-Out 2 firmware v1.00 or later
- Integrated Lights-Out 3 firmware v1.00 or later
- Integrated Lights-Out 4 firmware v1.00 or later

The management interface driver and management agents must be installed on the server.

Fixes

HPONCFG displays an appropriate error message with -w option when LOCK_CONFIGURATION is enabled.

Software - Storage Fibre Channel HBA

Top

Fibreutils for HPE Storage Fibre Channel Host Bus Adapters for Linux (x86)

Version: 3.2-6 (F) (Optional)
Filename: fibreutils-3.2-6.i386.rpm

Prerequisites

- Requires the following packages to be installed: glibc libgcc libstdc++ bash perl

Enhancements

General update.

Fibreutils for HPE Storage Fibre Channel Host Bus Adapters for Linux (x86_64)

Version: 3.2-6 (F) (Optional)
Filename: fibreutils-3.2-6.x86_64.rpm

Prerequisites

- Requires the following packages to be installed: glibc libgcc libstdc++ bash perl

Enhancements

General update.

HP Fibre Channel Enablement Kit for Linux - QLogic

Version: 6.0.0.0-1 (Recommended)
Filename: HP-CNA-FC-hpqlgc-Enablement-Kit-6.0.0.0-1.noarch.rpm

Important Note!

Release Notes:
HP StorageWorks QLogic Adapters Release Notes

Enhancements

Updated the kit to version 6.0.0.0-1

HPE Fibre Channel Enablement Kit for Red Hat Enterprise Linux 6 Server - Emulex

Version: 10.7.110.34 (Recommended)
Filename: HP-CNA-FC-Emulex-Enablement-Kit-10.7.110.34-1.rhel6.x86_64.rpm

Important Note!

Release Notes:
HPE StoreFabric Emulex Adapters Release Notes

Prerequisites

The target environment must have the libHBAAPI Package installed prior to the installation of the enablement kit. (If not already present, the libHBAAPI Package can be obtained from the operating system installation media.)

Enhancements

Updated to version 10.7.110.34-1

Added support for the following devices:

- HPE FlexFabric 10Gb 2-port 556FLR-T Adapter
- HPE StoreFabric CN1200E-T 10GBASE-T Converged Network Adapter

Supported Devices and Features

- HP FC2242SR 4Gb PCIe DC Host Bus Adapter
- HP FC2142SR 4Gb PCIe Host Bus Adapter

- HP SN1000E 16Gb Dual Port Fibre Channel Host Bus Adapter
- HP SN1000E 16Gb Single Port Fibre Channel Host Bus Adapter
- HP 82E 8Gb Dual Port PCIe Fibre Channel Host Bus Adapter
- HP 81E 8Gb Single Port PCIe Fibre Channel Host Bus Adapter
- HP CN1100E Dual Port Converged Network Adapter
- HP NC553m 10Gb 2-port FlexFabric Converged Network Adapter
- HP NC553i 10Gb 2-port FlexFabric Converged Network Adapter
- HP FlexFabric 10Gb 2-port 554M Adapter
- HP FlexFabric 10Gb 2-port 554FLR-SFP+ Adapter
- HP FlexFabric 10Gb 2-port 554FLB Adapter
- HP LPe1205A 8Gb Fibre Channel Host Bus Adapter for BladeSystem c-Class
- Emulex LPe1205 8Gb Fibre Channel Host Bus Adapter for c-Class BladeSystem
- Emulex LPe1105 4Gb Fibre Channel Host Bus Adapter for c-Class BladeSystem
- HP SN1100E 16Gb Dual Port Fibre Channel Host Bus Adapter
- HP SN1100E 16Gb Single Port Fibre Channel Host Bus Adapter
- HP LPe1605 16Gb Fibre Channel Host Bus Adapter for BladeSystem c-Class
- HP FlexFabric 20Gb 2-port 650FLB Adapter
- HP FlexFabric 20Gb 2-port 650M Adapter
- HP FlexFabric 10Gb 2-port 556FLR-SFP+ Adapter
- HP StoreFabric CN1200E Dual Port Converged Network Adapter
- HP NC551i Dual Port FlexFabric 10Gb Network Adapter
- HPE FlexFabric 10Gb 2-port 556FLR-T Adapter
- HPE StoreFabric CN1200E-T 10GBASE-T Converged Network Adapter
- HP StoreFabric 84E 4-Port Fibre Channel Host Bus Adapter

Software - System Management

Top

HP System Management Homepage for Linux (AMD64/EM64T)

Version: 7.5.4-3 **(Recommended)**
Filename: hpsmh-7.5.4-3.x86_64.rpm

Important Note!

Please refer the HP SMH Release Notes

Prerequisites

The rpm will check for prerequisites.

Enhancements

Signature Hash Algorithm of SMH certificate is upgraded to SHA-2 (SHA-256)

HP System Management Homepage for Linux (x86)

Version: 7.5.4-3 **(Recommended)**
Filename: hpsmh-7.5.4-3.i386.rpm

Important Note!

Please refer the HP SMH Release Notes

Prerequisites

The rpm will search for prerequisites and notify the user of any not present on the machine.

Enhancements

Signature Hash Algorithm of SMH certificate is upgraded to SHA-2 (SHA-256)

HPE ProLiant Agentless Management Service for Red Hat Enterprise Linux 6 (AMD64/EM64T)

Version: 2.4.0 (Optional)
Filename: hp-ams-2.4.0-1906.24.rhel6.x86_64.rpm

Prerequisites

- hp-ams only supported on HP ProLiant Gen8 and Gen9 Servers.
- hp-ams provides information to the HP iLO 4 service providing SNMP support.
- SNMP PASS-THRU on the HP iLO 4 MUST be disabled, and SNMP should be configured on the HP iLO 4. The HP iLO 4 may need to be reset after changing these settings.
- Requirements:
  - Minimum HP iLO 4 Firmware Version = 1.05
  - Minimum supported OS Versions = Red Hat Enterprise Linux 5.6, Red Hat Enterprise Linux 6.0, SuSE Linux Enterprise Server 10 SP4, SuSE Linux Enterprise Server 11 SP1

Fixes

- AMS now reflects the actual structure of SATA controllers and drives and not the Linux kernels.
- AMS now uses PCI VPD data, then pci.ids database, then internal NIC_DB to determine controller names.
- AMS now ignores all scsi host controllers using the hpsa kernel module in the cpqScsi MIB handler.
- AMS looks at the RPM Packager tag to determine installed software (cpqHoSwVerTable) in addition to the RPM Vendor tag.
- AMS now uses other methods to get the correct process name if the value coming from procfs is truncated.
- AMS uses PCI config space to get PCI link width.

Enhancements

- Added support for new HPE ProLiant Gen9 Servers.
- Added support for NVMe drives and hot-plug PCIe (NVMe).
- Added option to specify RPM vendor on command line to include in cpqHoSwVerTable.
- Added new HPE PCI ID when looking for HPE devices.
- Change name of AMS daemon from hpHelper to amsHelper.
- Added cpqIdeAtaDiskSSDWearStatusChange trap generation.

HPE ProLiant Agentless Management Service for Red Hat Enterprise Linux 6 (x86)

Version: 2.4.0 (Optional)
Filename: hp-ams-2.4.0-1906.24.rhel6.i686.rpm

Prerequisites

- hp-ams only supported on HP ProLiant Gen8 and Gen9 Servers.
- hp-ams provides information to the HP iLO 4 service providing SNMP support.
- SNMP PASS-THRU on the HP iLO 4 MUST be disabled, and SNMP should be configured on the HP iLO 4. The HP iLO 4 may need to be reset after changing these settings.
- Requirements:
  - Minimum HP iLO 4 Firmware Version = 1.05
  - Minimum supported OS Versions = Red Hat Enterprise Linux 5.6, Red Hat Enterprise Linux 6.0, SuSE Linux Enterprise Server 10 SP4, SuSE Linux Enterprise Server 11 SP1

Fixes

- AMS now reflects the actual structure of SATA controllers and drives and not the Linux kernels.
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- AMS looks at the RPM Packager tag to determine installed software (cpqHoSwVerTable) in addition to the RPM Vendor tag.
- AMS now uses other methods to get the correct process name if the value coming from procfs is truncated.
- AMS uses PCI config space to get PCI link width.

HPE Smart Storage Administrator (HPE SSA) CLI for Linux

Version: 2.40-13.0 (Optional)
Filename: hpssacli-2.40-13.0.i386.rpm; hpssacli-2.40-13.0.i386.txt

Important Note!

HPE SSACLI will allow you to configure and manage your storage as before, but now with additional features, abilities, and supported devices. Existing ACUCLI scripts should only need to make minimal changes such as calling the appropriate binary or executable in order to maintain compatibility.

Enhancements

New features:

- Support for Drive Sanitize on Smart Array Px2x and Smart Array Px3x controllers
- Allows users to forcefully re-enable failed encrypted volumes when their encryption keys are permanently lost and all the failed drives have been replaced
- Added logical drive numbers/physical drive locations to primary and secondary boot volume information

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HPE Smart Storage Administrator (HPE SSA) CLI for Linux 64-bit

Version: 2.40-13.0 (Optional)
Filename: hpssacli-2.40-13.0.x86_64.rpm; hpssacli-2.40-13.0.x86_64.txt

Important Note!

HPE SSACLI will allow you to configure and manage your storage as before, but now with additional features, abilities, and supported devices. Existing ACUCLI scripts should only need to make minimal changes such as calling the appropriate binary or executable in order to maintain compatibility.

Enhancements

New features:

- Support for Drive Sanitize on Smart Array Px2x and Smart Array Px3x controllers
- Allows users to forcefully re-enable failed encrypted volumes when their encryption keys are permanently lost and all the failed drives have been replaced
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HPE Smart Storage Administrator (HPE SSA) for Linux

Version: 2.40-13.0 (Optional)
Filename: hpssa-2.40-13.0.i386.rpm; hpssa-2.40-13.0.i386.txt

Important Note!

HPE SSA replaces the existing HP Array Configuration Utility, or ACU, with an updated design and will deliver new features and functionality for various Smart Storage initiatives as they come online. HPE Smart Array Advanced Pack 1.0 and 2.0 features are now part of the baseline features of HPE SSA, with the appropriate firmware.

HPE SSA will allow you to configure and manage your storage as before, but now with additional features, abilities, and supported devices. Existing ACU scripts should only need to make minimal changes such as calling the appropriate binary or executable in order to maintain compatibility.

Prerequisites

The HPE Smart Storage Administrator for Linux requires the HPE System Management Homepage software to be installed on the server. If the HPE System Management Homepage software is not already installed on your server, please download it from HPE.com and install it before installing the HPE Smart Storage Administrator for Linux.

IMPORTANT UPDATE: HPE SSA (GUI) for Linux can now be run without requiring the HPE System Management Homepage. HPE SSA now supports a Local Application Mode for Linux. The HPE System Management Homepage is still supported, but no longer required to run the HPE SSA GUI.

To invoke, enter the following at the command prompt:

hpssa -local

The command will start HP SSA in a new Firefox browser window. When the browser window is closed, HP SSA will automatically stop. This is only valid for the loopback interface, and not visible to external network connections.

Enhancements

New features:

- Support for Drive Sanitize on Smart Array Px2x and Smart Array Px3x controllers
- Allows users to forcefully re-enable failed encrypted volumes when their encryption keys are permanently lost and all the failed drives have been replaced
- Added logical drive numbers/physical drive locations to primary and secondary boot volume information

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HPE Smart Storage Administrator (HPE SSA) for Linux 64-bit

Version: 2.40-13.0 (Optional)
Filename: hpssa-2.40-13.0.x86_64.rpm; hpssa-2.40-13.0.x86_64.txt

Important Note!

HPE SSA replaces the existing HP Array Configuration Utility, or ACU, with an updated design and will deliver new features and functionality for various Smart Storage initiatives as they come online. HPE Smart Array Advanced Pack 1.0 and 2.0 features are now part of the baseline features of HPE SSA, with the appropriate firmware.

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The HPE Smart Storage Administrator for Linux requires the HPE System Management Homepage software to be installed on the server. If the HPE System Management Homepage software is not already installed on your server, please download it from HPE.com and install it before installing the HPE Smart Storage Administrator for Linux.

IMPORTANT UPDATE: HPE SSA (GUI) for Linux can now be run without requiring the HPE System Management Homepage. HPE SSA now supports a Local Application Mode for Linux. The HPE System Management Homepage is still supported, but no longer required to run the HPE SSA GUI.

To invoke, enter the following at the command prompt:

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Enhancements

New features:

- Support for Drive Sanitize on Smart Array Px2x and Smart Array Px3x controllers
- Allows users to forcefully re-enable failed encrypted volumes when their encryption keys are permanently lost and all the failed drives have been replaced
- Added logical drive numbers/physical drive locations to primary and secondary boot volume information

HPE Smart Storage Administrator Diagnostic Utility (HPE SSADU) CLI for Linux

Version: 2.40-13.0 (Optional)
Filename: hpssaducli-2.40-13.0.i386.rpm; hpssaducli-2.40-13.0.i386.txt

Important Note!

This stand alone version of the HPE Smart Storage Administrator's Diagnostic feature is available only in CLI form. For the GUI version of Diagnostic reports, please use HPE Smart Storage Administrator (HPE SSA).

Enhancements

New features:

- Support for Drive Sanitize on Smart Array Px2x and Smart Array Px3x controllers
- Allows users to forcefully re-enable failed encrypted volumes when their encryption keys are permanently lost and all the failed drives have been replaced
- Added logical drive numbers/physical drive locations to primary and secondary boot volume information

HPE Smart Storage Administrator Diagnostic Utility (HPE SSADU) CLI for Linux 64-bit

Version: 2.40-13.0 (Optional)
Filename: hpssaducli-2.40-13.0.x86_64.rpm; hpssaducli-2.40-13.0.x86_64.txt

Important Note!

This stand alone version of the HPE Smart Storage Administrator's Diagnostic feature is available only in CLI form. For the GUI version of Diagnostic reports, please use HPE Smart Storage Administrator (HPE SSA).

Enhancements

New features:

- Support for Drive Sanitize on Smart Array Px2x and Smart Array Px3x controllers
- Allows users to forcefully re-enable failed encrypted volumes when their encryption keys are permanently lost and all the failed drives have been replaced
- Added logical drive numbers/physical drive locations to primary and secondary boot volume information

HPE SNMP Agents for Red Hat Enterprise Linux 6 (AMD64/EM64T)

Version: 10.4.0 (Optional)
Filename: hp-snmp-agents-10.40-2847.17.rhel6.x86_64.rpm

Prerequisites

The hp-health and hp-snmp-agents run as 32 bit applications in the x86_64 environment. The Linux kernel 32 bit compatibility must be enabled (usual default for Linux) and the 32 bit compatibility libraries must be present.

To get the list of all dependency files for hp-snmp-agents type:

rpm –qp –-requires hp-snmp-agents-<version>.rpm

Fixes

- cmanicd daemon will not cause segmentation fault after creating a network bond.
- SNMP MIB walk will list Physical Functions on new Network Cards after creating SR-IOV(Single Root Input/Output Virtualization) Virtual Functions and also will not cause Segmentation Fault.

Enhancements

Added support for HPE ProLiant Gen9 Servers.

Added support for the following network adapters:

- HPE StoreFabric CN1100R- T 10GBASE-T Converged Network Adapter
- HPE FlexFabric 10Gb 2-port 556FLR-T Adapter
- HPE StoreFabric CN1200E-T Adapter

HPE SNMP Agents for Red Hat Enterprise Linux 6 (x86)

Version: 10.4.0 (Optional)
Filename: hp-snmp-agents-10.40-2847.17.rhel6.i686.rpm

Prerequisites

To get the list of all dependency files for hp-snmp-agents type:

rpm –qp –-requires hp-snmp-agents-<version>.rpm

Fixes

- cmanicd daemon will not cause segmentation fault after creating a network bond.
- SNMP MIB walk will list Physical Functions on new Network Cards after creating SR-IOV(Single Root Input/Output Virtualization) Virtual Functions and also will not cause Segmentation Fault.

HPE System Health Application and Command Line Utilities for Red Hat Enterprise Linux 6 (AMD64/EM64T)

Version: 10.4.0 (Optional)
Filename: hp-health-10.40-1777.17.rhel6.x86_64.rpm

Prerequisites

The hp-health and hp-snmp-agents run as 32 bit applications in the x86_64 environment. The Linux kernel 32 bit compatibility must be enabled (usual default for Linux) and the 32 bit compatibility libraries must be present.

To get the list of all dependency files for hp-health, type:

rpm –qp –requires hp-health-< version >.rpm

Fixes

Complete ROM Version is displayed in hpasmcli tool.

Enhancements

Added support for new HPE ProLiant Gen9 Servers.

HPE System Health Application and Command Line Utilities for Red Hat Enterprise Linux 6 (x86)

Version: 10.4.0 (Optional)
Filename: hp-health-10.40-1777.17.rhel6.i686.rpm

Prerequisites

To get the list of all dependency files for hp-health, type:

rpm –qp –requires hp-health-< version >.rpm

Fixes

Complete ROM Version is displayed in hpasmcli tool.

HPE System Management Homepage Templates for Linux

Version: 10.4.0 (Optional)
Filename: hp-smh-templates-10.4.0-1455.24.noarch.rpm

Important Note!

The HP System Health Application and Insight Management Agents (hpasm) version 8.0.0 was split into three individual rpm packages:

- HP System Health Application and Command Line Utilities (hp-health) version 8.1.0
- HP SNMP Agents (hp-snmp-agents) version 8.1.0
- HP System Management Homepage Templates (hp-smh-templates) version 8.1.0

These three packages provide equivalent functionality as hpasm v8.0.0 and allow for more modular installation choices.

Prerequisites

To get the list of all dependency files for hp-smh-templates type:

rpm –qp –-requires hp-smh-templates-<version>.rpm

Enhancements

Added support for new HPE ProLiant Gen9 Servers.

Insight Diagnostics Online Edition for Linux (x86 32-bit)

Version: 10.50.2007 **(Recommended)**
Filename: hpdiags-10.50.2007-2076.linux.i586.rpm

Important Note!

The online version of HP Insight Diagnostics provides the same functionality as the Survey Utility for Windows and Linux and does not perform any hardware tests on the system. Although not required, it is recommended that you uninstall the current Survey Utility for Windows or Linux before beginning the installation of HP Insight Diagnostics Online Edition.

Prerequisites

The following component(s) are required for HP Insight Diagnostics Online Edition for Linux:

- HP System Management Homepage, version 7.0.0-12 or higher

The following component(s) are recommended for HP Insight Diagnostics Online Edition for Linux to make full use of its capabilities:

- HP System Health Application, version 9.0.0 or higher

Fixes

- Contains fixes to support HPE ProLiant Gen9 servers.
- DL60 blank Remote Management category.
- Untranslated English to Japanese strings.
- Blank Remote Control section in Survey for DL20 Gen9.
- Capability to report same backplanes but different box numbers.

Enhancements

- Support for HPE FlexFabric 10Gb 2-port 556FLR-T Adapter.
- Support for HPE StoreFabric CN1200E 10G BASE-T Dual Port Converged Network Adapter.
- Support for memory dram speed 2400 Mbits.
- Support for DDR4-2400 1.2V memory.
- Support for Apollo 4520 Storage Expander.
- Support 6 SFF rear cage for Apollo 4200.
- Support for StoreFabric CN1100R-T Converged Network Adapter.
- Hewlett Packard Enterprise rebrand.

See the Service Pack for ProLiant Release Notes for more information.

See the Service Pack for ProLiant Server Support Guide for information on supported servers.

Insight Diagnostics Online Edition for Linux (x86-64)

Version: 10.50.2007 **(Recommended)**
Filename: hpdiags-10.50.2007-2076.linux.x86_64.rpm

Important Note!

The online version of HP Insight Diagnostics provides the same functionality as the Survey Utility for Windows and Linux and does not perform any hardware tests on the system. Although not required, it is recommended that you uninstall the current Survey Utility for Windows or Linux before beginning the installation of HP Insight Diagnostics Online Edition.

Prerequisites

The following component(s) are required for HP Insight Diagnostics Online Edition for Linux:

- HP System Management Homepage, version 7.0.0-12 or higher

The following component(s) are recommended for HP Insight Diagnostics Online Edition for Linux to make full use of its capabilities:

- HP System Health Application, version 9.0.0 or higher

You can install them by using the SPP or downloading them individually from HP Support Center.

Fixes

- Contains fixes to support HPE ProLiant Gen9 servers.
- DL60 blank Remote Management category.
- Untranslated English to Japanese strings.
- Blank Remote Control section in Survey for DL20 Gen9.
- Capability to report same backplanes but different box numbers.

Enhancements

- Support for HPE FlexFabric 10Gb 2-port 556FLR-T Adapter.
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- Support for memory dram speed 2400 Mbits.
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- Support for Apollo 4520 Storage Expander.
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- Support for StoreFabric CN1100R-T Converged Network Adapter.
- Hewlett Packard Enterprise rebrand.

See the Service Pack for ProLiant Release Notes for more information.

See the Service Pack for ProLiant Server Support Guide for information on supported servers.