

Overview

Scripting Toolkit for Windows and Linux

As businesses are faced with the need to deploy hundreds of servers in a quick and reliable fashion, Hewlett Packard Enterprise offers the Scripting Toolkit for Windows and Linux. The Scripting Toolkit (STK) is the new name for the former SmartStart Scripting Toolkit (SSSTK) and this version is specific to HPE ProLiant Gen 8 servers and beyond. Information and download about the STK for Gen8 and later servers can be found at: <http://www.hp.com/go/ProLiant/STK>

The STK provides all the functionality of the previous SmartStart Scripting Toolkit, plus support for HPE ProLiant Gen8 and beyond servers by providing a flexible way to create standard server configuration scripts for multi-server deployments. Using the former SmartStart technology, now the ProLiant Intelligent Provisioning technology, the Scripting Toolkit (STK) provides a flexible way to create standard server configuration scripts to automate many of the manual steps in the server configuration process.

These automated server configuration tools cut time from each server deployed, making it possible to scale server deployments to high volumes in rapid fashion because the scripts are used to automate many of the manual steps in the server configuration process. The Scripting Toolkit is designed for IT experts with experience in scripting operating system installations and configuring HPE ProLiant server hardware.

The Scripting Toolkit includes a modular set of utilities and important documentation that describe how to apply these tools to build an automated server deployment process.

The STK includes:

- 64-bit WinPE drivers and utilities
- Bootable Linux environment that contains all the STK Tools.
- STK Tools RPM Packages for RHEL and SLES
- All of the HPE ProLiant series Gen 8 and Gen9 servers are supported. (The Scripting Toolkit includes limited ProLiant 100 series support prior to Gen8.)
- Starting with STK 10.00, only 64-bit utilities are provided/supported.

For the latest features please visit: <http://www.hp.com/go/ProLiant/STK>.

Product Features

Server Support

The Linux and Microsoft® Windows® editions of the HPE Scripting Toolkit provide a collection of tools that assist with configuring HPE ProLiant server hardware and installing your operating system. For the latest information on server support visit <http://www.hp.com/go/stk/docs>.

Key Features

- For the latest features read the User Guides and Server Support Guide found at <http://www.hp.com/go/stk/docs>

Benefits

- Extends leadership for enterprises looking for fast and effective server deployment
- Lowers server deployment cost
- Scales to support high volume server deployment
- Provides easy to understand documentation with how-to information and sample scripts
- Builds automated server deployment solution
- "Rack and Go" unattended installation frees up scarce IT resources
- Scales to support high volume server deployments lowering cost/server as more are deployed
- Delivers consistent server configurations across multiple servers
- Integrates into popular methods for operating system deployment
- User guide provides valuable examples on how to build scripts for high volume server deployment

Operating Systems and Virtualization Software Support for ProLiant Servers

Microsoft Windows Server

Microsoft Windows Server Hyper-V

Red Hat Enterprise Linux (RHEL)

SUSE Linux Enterprise Server (SLES)

NOTE: For more information on HPE's Certified and Supported ProLiant Servers for OS and Virtualization Software and latest listing of software drivers available for your server, please visit our Support Matrix tab at: <http://www8.hp.com/us/en/products/servers/management/operating-environments/os-support-matrix.html>. Microsoft Windows Server support includes support for multiple Windows Server OSES and the support matrixes show specific OSES for specific servers supported.

Rack and Go Deployment

By combining scripts for server configuration and operating system installation, IT administrators can rapidly configure a new server and install the operating system in a hands-off unattended manner.

Virtual Presence Server Deployment

Integrated Lights Out (iLO) and the Scripting Toolkit are key components of the Hewlett Packard Enterprise management strategy to deliver "Virtual Presence" -controlling your IT assets anywhere on the network. iLO provides powerful remote access to your server. Using the "Virtual Media" feature, system administrators can remotely power on a new server, boot up from the network boot image, run the server configuration scripts and launch the OS installation across the network, providing an efficient way to deploy new servers at remote locations without local IT staff.

Tools and Utilities

The section below describes the various tools and utilities included in the HPE Scripting Toolkit (STK) for Windows and HPE Scripting Toolkit (STK) for Linux.

- CONREP*
- HPSSASCRIPING
- HPDISCOVERY
- HPONCFG
- HPLPCFG
- HPQLAREP
- HWQUERY

Product Features

- IFHW
- LO100CFG
- REBOOT
- RBSURESET
- SETBOOTORDER
- STATEMGR

Read the User Guide for full list of Tools and Utilities.

NOTE: HPE ProLiant 100 G7 series servers and earlier generations do not support all Scripting Toolkit commands. Commands that are supported might not work as expected. For a better understanding, please read each section of the Windows and Linux User Guides carefully. <http://www.hp.com/go/stk/docs>

CONREP	The Configuration Replication Utility (CONREP) can be used to capture or replicate server configuration settings, but basically it configures system BIOS settings. This utility works across all ProLiant servers but certain requirements exist for ProLiant 100 series servers, please refer to user manuals.
HPSSASCRIPING	Starting with version 8.28.13.0, HPE SSA Scripting is now a standalone application that is distributed with the HPE SSA CLI application. In HPE SSA versions prior to 8.28.13.0, the scripting executable was provided with the HPE SSA GUI component. Users familiar with the previous versions of HPE SSA Scripting must now install the HPE SSA CLI application to obtain the scripting executable. The new HPE SSA scripting executable (hpssascripting) replaces the former executable (cpqssaxe) in all scripts.
HPDISCOVERY	HPDISCOVERY provides an inventory of the server being configured and must run on each deployed server.
HPONCFG	The HPE On Configuration (HPONCFG) utility is an online configuration tool used to setup and reconfigure iLO without requiring a reboot of the server operating system. The utility runs in a command line mode and must be executed from an operating system command line.
HPLPCFG	The HPLPCFG utility discovers the WWID of the HBA in the server blade and writes the information in the text file. The text file presents the options in human readable format. The HPLPCFG utility updates the hardware with the boot volume WWID and boot LUN read from the text file.
HPQLAREP	The HPQLAREP utility updates the hardware with the boot volume WWID and boot LUN read from the text file.
HWQUERY	The Hardware Query Utility (HWQUERY) is used with output of HPDISCOVERY. HWQUERY files can be used to gather data from the hardware discovery file to set or define environment variables
IFHW	The IF Hardware Utility (IFHW) is used with output of HPDISCOVERY and can be used to query the output file of HPDISCOVERY, enabling you to add conditional tests to a script so that it performs different operations based on the outcome of the tests.
LO100CFG	The LO100CFG is a tool for Onboard Administrator Powered by Lights-Out 100i and the LO100i Advanced Licenses. LO100CFG enables you to configure Lights-Out 100 on the ProLiant 100 series servers similar to HPONCFG for other ProLiant servers. NOTE: Utility only supports HPE ProLiant 100 G7s and earlier generation servers.
RBSURESET	The RBSU Reset (RBSURESET) utility resets the BIOS settings for a server by reapplying the default factory setting at the next reboot. RBSURESET does not erase array configurations or logical storage volumes.

Product Features

REBOOT

The REBOOT utility enables the user to reboot the server, controlling which device is the boot device. In conjunction with other utilities, the REBOOT utility controls server reboots from a batch file.

SETBOOTORDER

The SETBOOTORDER utility enables you to set the order in which devices are booted, including diskette drives, CD-ROM drives, hard drives, PXE, and USB devices. This utility sets the boot order only for devices that exist for a server and can be set to boot in any order. SETBOOTORDER cannot be used to set the storage controller order. This utility can only set one boot device on ProLiant100 series G6/G7Servers.

NOTE: Utility has limited functionality for HPE ProLiant 100 G7 series and earlier generation servers.

STATEMGR

STATEMGR Keeps track of the execution state during system reboots and saves persistent state information across reboots of the system.

NOTE: Utility is not supported on 100 G7 series and earlier generation servers.

Download

Download the Scripting Toolkit at <http://www.hp.com/go/ProLiant/STK> .

Service and Support

Service and Support **HPE Technology Services**

HPE Technology Services offers you consultants and support experts to solve your most complex infrastructure problems. We help keep your business running, boost availability and avoid downtime.

Protect your business beyond warranty with HPE Care Pack Services

When you buy HPE Options, it's also a good time to think about what level of service you may need. HPE Care Pack services provide total care and support expertise with committed response choices designed to meet your IT and business need.

HPE Foundation Care services deliver scalable support-packages for Hewlett Packard Enterprise industry-standard servers and software. You can choose the type and level of service that is most suitable for your business needs. New to this portfolio is HPE Collaborative Support. If you are running business critical environments, Hewlett Packard Enterprise offers Proactive Care or Critical Advantage. These services help you deliver high levels of application availability through proactive service management and advanced technical response.

Here is the support service recommendation from the Foundation Care and Proactive Care portfolio. For customized support service solution, Hewlett Packard Enterprise can work with you to tailor a service solution for your unique support requirements using broader services portfolio of Foundation Care and Proactive Care.

Recommended Services **Recommended HPE Care Pack Services for optimal satisfaction with your HPE product**

3-Year HPE 24x7 4 hour Response, Hardware Support Onsite Service

Provides you with rapid remote support and if required an Hewlett Packard Enterprise Authorized representative who will arrive on site any time and day of the year to begin hardware maintenance service within 4 hours of the service request being logged.

<https://www.hpe.com/h20195/v2/getpdf.aspx/5982-6547eee.pdf>

3-Year HPE 24x7 4 hour Response, HPE Collaborative Support

Offers customers a single point of contact for server problem diagnosis, hardware problem resolution, and basic software problem diagnosis, fault isolation, and resolution if available to HPE. If the problem is with HPE HW, the representative will arrive on site any time and day of the year to begin hardware maintenance service within 4 hours of the service request being logged. In case, the issue is with HPE or supported third-party software product and cannot be resolved by applying known fixes, Hewlett Packard Enterprise will contact the third-party vendor and create a problem incident on your behalf.

HPE ProLiant Server Hardware Installation

Provides for the basic hardware installation of Hewlett Packard Enterprise branded servers, storage devices and networking options to assist you in bringing your new hardware into operation in a timely and professional manner.

<http://h20195.www2.hp.com/V2/GetPDF.aspx/5981-9356EN.pdf>

Related Services **Related HPE Care Pack Services to enhance your HPE product experience**

3-Year HPE 24x7 4 hour Response, Proactive Care or Critical Advantage

Service and Support

Helps optimize your systems and delivers high levels of application availability through proactive service management and advanced technical response. A skilled Technical Manager will own your query or issue end to end until resolved, delivering a single point of contact for you.

<https://www.hpe.com/h20195/v2/getpdf.aspx/4aa3-2140enw.pdf>

3-Year HPE 6-hour Onsite Call-to-Repair, HPE Collaborative Support

Offers customers a single point of contact for server problem diagnosis, hardware problem resolution to return the hardware in operating condition within 6 hours of the initial service request to the HPE Global Solution Center, and basic software problem diagnosis, fault isolation, and resolution if available to HPE. In case, the issue is with HPE or supported third-party software product and cannot be resolved by applying known fixes, Hewlett Packard Enterprise will contact the third-party vendor and create a problem incident on your behalf.

HPE Proactive Select Service

Provides a flexible way to purchase HPE best-in-class consultancy and technical services. You can buy Proactive Select Service Credits when you purchase your hardware and then use the credits over the next 12 months.

<http://h20195.www2.hp.com/V2/GetPDF.aspx/4AA2-3842ENN.pdf>

Insight Remote Support Provides 24 X 7 remote monitoring, proactive notifications, and problem resolution. Learn more <http://www.hp.com/go/insightremotesupport>

Summary of Changes

Date	Version History	Action	Description of Change
07-Oct-2016	From Version 4 to 5	Changed	QuickSpecs was rebranded.
03-Mar-2015	From Version 3 to 4	Changed	Overview section was revised.
05-Jun-2014	From Version 2 to 3	Changed	Product Features was revised.
14-Mar-2012	From Version 1 to 2	Changed	Changes made to the links throughout the QuickSpecs.



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