

# HP VMware Utilities User Guide

## VMware ESXi 5.0 U1 for March 2012

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# 1 Introduction

This section provides information about the utilities supported on VMware ESXi 5.0 and updates. The following utilities are supported on VMware ESXi 5.0 and updates host:

- HPONCFG — Command line utility used for obtaining and setting ProLiant iLO configurations.
- HPBOOTCFG — Command line utility used for configuring ProLiant server boot order.
- HPACUCLI – Command line utility used for configuration and diagnostics of ProLiant server SmartArrays.

## Installing offline bundles on an ESXi 5.0 and updates host using vSphere CLI 5.0 esxcli utility

This section provides information about installing the VMware ESXi 5.0 and updates offline bundles on the ESXi host. You can use the `esxcli` utility in conjunction with offline bundles or with a depot.

### Prerequisites

Install VMware vSphere Command-Line Interface 5.0 (vSphere CLI) on Microsoft Windows or Linux system. For information about importing or installing the vSphere CLI 5.0, see the *VMware vSphere Command-Line Interface Installation and Reference Guide* available at: [http://pubs.vmware.com/vsphere-50/topic/com.vmware.vcli.ref.doc\\_50/vcli-right.html](http://pubs.vmware.com/vsphere-50/topic/com.vmware.vcli.ref.doc_50/vcli-right.html).

To install the offline bundle on an ESXi host, perform the following steps:

1. Power off any virtual machines that are running on the host, and set the host into maintenance mode.
2. Transfer the bundle onto the ESXi host local path, or extract it onto an online depot.
3. Install the bundle on the ESXi host using any of the following command line:
  - Install remotely from client, with offline bundle available as online depot

```
~# esxcli -s <server> -u root -p mypassword software vib install -d <depotURL/bundle-index.xml>
```
  - Install remotely from client, with offline bundle available on ESXi host

```
~# esxcli -s <server> -u root -p mypassword software vib install -d <ESXi local path><bundle.zip>
```
  - Install from ESXi host, with offline bundle available on ESXi host

```
~# esxcli software vib install -d <ESXi local path><bundle.zip>
```
4. After the bundle is installed, reboot the ESXi host to initialize the utilities.

## Installing offline bundles on an ESXi 5.0 and updates host using VMware vCenter Update Manager

The offline bundle can also be installed from VMware vCenter Update Manager as a patch. For more information and detailed instructions, see the *VMware vCenter Update Manager Administration Guide* available at:

[http://pubs.vmware.com/vsphere-50/topic/com.vmware.vsphere.update\\_manager.doc\\_50/GUID-F7191592-048B-40C7-A610-CFEE6A790AB0.html](http://pubs.vmware.com/vsphere-50/topic/com.vmware.vsphere.update_manager.doc_50/GUID-F7191592-048B-40C7-A610-CFEE6A790AB0.html).

### HPONCFG utility

The HPONCFG utility only supports HP ProLiant 300/500/700 and Blade servers.

HP offers support for the iLO 2, iLO 3 and iLO 4 features available on ProLiant servers with the HPONCFG utility.

HPONCFG is an online configuration tool used to set up and reconfigure iLO 2, iLO3 and iLO 4 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.

Observe the following requirements before using HPONCFG:

- The iLO 2, iLO 3 or iLO 4 Management Interface Driver must be loaded on the server. HPONCFG displays a warning if the driver is not installed.
- HPONCFG requires minimum iLO 2, iLO 3 and iLO 4 firmware versions. To determine the minimum firmware version required, see the *HP SmartStart Scripting Toolkit Linux and Windows Editions Support Matrix*.

For more information, see the Remote Management website: <http://www.hp.com/servers/lights-out>

## HPONCFG command-line syntax

Use the following format at the command line:

```
hponcfg -f filename [-l filename] [-v] [-m minFw] -g [-m minFw] -w filename [-m minFw] -r [-m minFw] -h -?
```

The HPONCFG utility can be accessed from the location: `/opt/hp/tools`.

- ❗ **IMPORTANT:** Because the `-w` argument does not capture certain types of information, such as the administrator password, data files created with HPONCFG using the `-w` argument cannot then be used as input files for HPONCFG, unless they are modified first.

**Table 1 hponcfg Command Line Arguments**

Argument	Function
<code>-f, -file=filename</code>	This argument sets the iLO 2, iLO 3 or iLO 4 configuration based on the information in the XML input file named filename.
<code>-l, -log=filename</code>	This argument logs replies to the text log file named filename.
<code>-v, -xmlverbose</code>	Writes all the responses from iLO 2, iLO 3 or iLO 4.
<code>-g, -get_hostinfo</code>	This argument returns the host server name and serial number.
<code>-m, -minfwlevel</code>	This argument indicates to HPONCFG the minimum firmware level that must be present in the management device to execute the RIBCL script. If the minimum level is not met, HPONCFG returns an error without performing any additional actions.
<code>-w, -writeconfig=filename</code>	This argument writes the iLO 2, iLO 3 or iLO 4 configuration obtained from the device to the XML output file named filename.
<code>-r, -reset</code>	This argument resets the iLO 2, iLO 3 or iLO 4 to factory defaults.
<code>-h, -help, -?</code>	These arguments display simple help messages.

## HPONCFG return codes

This section provides description about the return code after running the command.

**Table 2 hponcfg return codes**

Value	Meaning
0	The script was sent successfully to the device.
1	The script could not be sent to the device. There is an error in xml.
2	The Management processor is not present, or the driver is not running.

**Table 2 hponcfg return codes** *(continued)*

Value	Meaning
3	The iLO flash is still in progress.
255	The script is unable to create an output file.

If the script itself fails, errors are reported in the log file created by HPONCFG.

## HPONCFG command file contents

The `hponcfg` command can be used to perform the following tasks:

- Obtain an entire configuration
- Obtain a specific configuration
- Set a configuration

## Obtaining an entire configuration

The `hponcfg` command can be used to obtain an entire configuration from an iLO 2, iLO 3 or iLO 4. In this case, the utility executes from the command line without specification of an input file. The name of the output file is given on the command line. For example:

```
/opt/hp/tools # ./hponcfg -w config.xml
```

In this example, the utility indicated that it obtained the data successfully and wrote it to the output file as requested. The following is a typical example of the contents of the output file:

```
<HPONCFG VERSION="1.1">
<!--Generated 04/15/04 15:20:36-->
<MOD_DIR_CONFIG>
<DIR_AUTHENTICATION_ENABLED VALUE="N" />
<DIR_LOCAL_USER_ACCT VALUE="Y" />
<DIR_SERVER_ADDRESS VALUE="" />
<DIR_SERVER_PORT VALUE="25"/>
<DIR_OBJECT_DN VALUE="" />
<DIR_OBJECT_PASSWORD VALUE="" />
<DIR_USER_CONTEXT_1 VALUE="" />
<DIR_USER_CONTEXT_2 VALUE="" />
<DIR_USER_CONTEXT_3 VALUE="" />
</MOD_DIR_CONFIG>
<MOD_NETWORK_SETTINGS>
<SPEED_AUTOSELECT VALUE="Y"/>
<NIC_SPEED VALUE="100"/>
<FULL_DUPLEX VALUE="Y"/>
<IP_ADDRESS VALUE="16.100.241.229"/>
<SUBNET_MASK VALUE="255.255.252.0"/>
<GATEWAY_IP_ADDRESS VALUE="16.100.240.1"/>
<DNS_NAME VALUE="ILOD234KJ44D002"/>
<PRIM_DNS_SERVER value="16.81.3.242"/>
<DHCP_ENABLE VALUE="Y"/>
<DOMAIN_NAME VALUE="americas.cpqcorp.net"/>
<DHCP_GATEWAY VALUE="Y"/>
<DHCP_DNS_SERVER VALUE="Y"/>
<DHCP_STATIC_ROUTE VALUE="Y"/>
<DHCP_WINS_SERVER VALUE="Y"/>
<REG_WINS_SERVER VALUE="Y"/>
<PRIM_WINS_SERVER value="16.81.3.247"/>
<STATIC_ROUTE_1 DEST="0.0.0.0" GATEWAY="0.0.0.0"/>
<STATIC_ROUTE_2 DEST="0.0.0.0" GATEWAY="0.0.0.0"/>
<STATIC_ROUTE_3 DEST="0.0.0.0" GATEWAY="0.0.0.0"/>
</MOD_NETWORK_SETTINGS>
<ADD_USER
```

```

USER_NAME="Administrator"
USER_LOGIN="Administrator"
PASSWORD="" >
</ADD_USER>
<ADD_USER
USER_NAME="Landy9"
USER_LOGIN="mandy9"
PASSWORD="" >
</ADD_USER>
<RESET_RIB VALUE="Y"/>
</HPONCFG>

```

For security reasons, the user passwords are not returned.

## Obtaining a specific configuration

A specific configuration can be obtained using the appropriate XML input file. For example, here are the contents of a typical XML input file, `get_global.xml`:

```

<!-- Sample file for Get Global command -->
<RIBCL VERSION="2.0">
<LOGIN USER_LOGIN="x" PASSWORD="x">
<RIB_INFO MODE="read">
<GET_GLOBAL_SETTINGS />
</RIB_INFO>
</LOGIN>
</RIBCL>

```

The XML commands are read from the input file `get_global.xml` and are processed by the device:

```
/opt/hp/tools # ./hponcfg -f get_global.xml -l log.txt > output.txt
```

The requested information is returned in the log file, which, in this example, is named `log.txt`. The contents of the log file are shown below.

```

<GET_GLOBAL_SETTINGS>
<SESSION_TIMEOUT VALUE="30"/>
<ILO_FUNCT_ENABLED VALUE="Y"/>
<F8_PROMPT_ENABLED VALUE="Y"/>
<REMOTE_CONSOLE_PORT_STATUS VALUE="3"/>
<REMOTE_CONSOLE_ENCRYPTION VALUE="N"/>
<PREFER_TERMINAL_SERVICES VALUE="N"/>
<HTTPS_PORT VALUE="443"/>
<HTTP_PORT VALUE="80"/>
<REMOTE_CONSOLE_PORT VALUE="23"/>
<TERMINAL_SERVICES_PORT VALUE="3389"/>
<VIRTUAL_MEDIA_PORT VALUE="17988"/>
<MIN_PASSWORD VALUE="4"/>
</GET_GLOBAL_SETTINGS>

```

## Setting a configuration

A specific configuration can be sent to the iLO 2, iLO 3 or iLO 4 by using the command format:

```
/opt/hp/tools # ./hponcfg -f add_user.xml -l log.txt
```

In this example, the input file has contents:

```

<!--Add user with minimal privileges to test default setting of assigned privileges to 'N'-->
<RIBCL version="1.2"/>
<LOGIN USER_LOGIN="x" PASSWORD="x">
<USER_INFO MODE="write">
<ADD_USER USER_NAME="Landy9" USER_LOGIN="mandy9"
PASSWORD="floppyshoes">
<RESET_SERVER_PRIV value="Y" />
<ADMIN_PRIV value="Y" />
</ADD_USER>

```

```
</USER_INFO>
</LOGIN>
</RIBCL>
```

The specified user will be added to the device.

## HPONCFG command-line examples

This section provides sample examples to run the utility.

**Table 3 hponcfg command-line examples**

Command-line argument	Description
<code>hponcfg -h</code>	This argument displays help information.
<code>hponcfg -g</code>	This argument returns the host server name and serial number.

To view the command usage options, run the following command:

```
/opt/hp/tools # ./hponcfg -h
```

All options supported by the command are listed in the output.

To get the host server name and serial number, run the following command:

```
/opt/hp/tools # ./hponcfg -g
```

The following output is displayed:

```
Firmware Revision = 2.05 Device type = iLO 2 Driver name = hpilo
Host Information:
Server Name: localhost.americas.hpqcorp.net
Server Number: 000000000
```

To set the minimum firmware level, run the following command:

```
/opt/hp/tools # ./hponcfg -m 2
```

The following output is displayed:

```
Firmware Revision = 2.05 Device type = iLO 2 Driver name = hpilo
```

## HPBOOTCFG utility

The `hpbootcfg` utility only supports HP ProLiant 300/500/700 and Blade servers.

This utility allows an application to set the device for the next subsequent boot of the system.

## HPBOOTCFG command-line syntax

Use the following format at the command line:

```
hpbootcfg [-F -C -H -T] [-S -Q -R -P] [-r -d -n -b]
```

**Table 4 hpbootcfg Command Line Arguments**

Argument	Function
<code>-D</code>	Sets default device as the boot option
<code>-F</code>	Sets Floppy Drive as the first boot device for the system boot
<code>-C</code>	Sets CD-ROM Drive as the first boot device for the system boot
<code>-H</code>	Sets Hard Drive as the first boot device for the system boot
<code>-T</code>	Sets Tape Drive as the first boot device for the system boot
<code>-S</code>	Sets system configuration utility as the boot device for the current boot
<code>-Q</code>	Sets quick configuration utility as the boot device for the current boot



**Table 4 hpbootcfg Command Line Arguments** *(continued)*

Argument	Function
-R	Sets ROM-Based Setup Utility (RBSU) as the boot device for the current boot
-P	Sets PXE client as the boot device for the current boot
-r	Sets remote configuration as the boot device for the current boot
-d	Sets remote dial out as the boot device for the current boot
-n	Sets remote network as the boot device for the current boot
-b	Bypasses F1 / F2 prompts

## HPBOOTCFG ESXCLI syntax

The `hpbootcfg` utility is supported by the `ESXCLI` utility.

To view the command usage options, run the following command:

```
# esxcli hpbootcfg
```

The following output is displayed:

```
Usage: esxcli hpbootcfg {cmd} [cmd options]
Available Commands:
execute execute - hpbootcfg command with options parameter
help - show hpbootcfg help
show - show current hpbootcfg settings
```

To view the current boot settings, run the following command:

```
# esxcli hpbootcfg show
```

The following output is displayed:

```
00 00: Normal Device first, normal boot process
```

To set the command parameter values, run the following command:

```
# esxcli hpbootcfg execute -D
```

The following output is displayed:

```
00 00: Normal Device first, normal boot process
```

## HPBOOTCFG return codes

This section provides description about the return code after running the command.

**Table 5 hpbootcfg return codes**

Value	Meaning
0	Indicates success
Non zero	Indicates failure

## HPBOOTCFG command-line examples

This section provides sample examples to run the utility.

**Table 6 hpbootcfg command-line examples**

Command-line argument	Description
/opt/hp/tools/hpbootcfg -h	This argument displays help information.
/opt/hp/tools/hpbootcfg -D	This argument sets the default values.

## HPACUCLI utility

The HPACUCLI utility supports HP ProLiant 300/500/700 and Blade servers with integrated SmartArray controllers and option controllers. The utility supports reporting and configuration of the SmartArray. Configuration includes the ability to create arrays; create, expand, and delete logical drives and many other advanced operations. The information provided in the guide is introductory and example focused. For more information, see *Configuring Arrays on HP Smart*

*Array Controllers Reference Guide* available at:

<http://h20000.www2.hp.com/bc/docs/support/SupportManual/c00729544/c00729544.pdf>

Additional references to *HP Array Configuration guides and whitepapers* are available at:

<http://h20000.www2.hp.com/bizsupport/TechSupport/DocumentIndex.jsp?lang=en&cc=us&contentType=SupportManual&prodTypeId=18964&prodSeriesId=468780&docIndexId=64179>.

## HPACUCLI command-line syntax

Using VMware esxcli requires knowledge about the CLI usage. The VMware vSphere command line documentation is available at: <http://www.vmware.com/support/developer/vcli/>.

The following is an overview of the ESXCLI command-line format:

```
# esxcli {namespace} {object} {command} {cmd options} "command-string"
```

**Table 7 HPACUCLI Command Line Arguments**

Argument	Function
esxcli	The esxcli application
namespace	Each plugin must have an associated namespace which defines any environment or other system variables required by the application.
object	A plugin must have one or more associated objects which defines a single operation.
command	Prepares the esxcli target to accept a command line string.
cmd options	Additional switches associated with the command itself (if necessary).
"command-string"	This is the string which dictates the operation that should be executing by the target application itself.

The current namespace and command names are: `hpacucli` and `cmd` respectively. The `{cmd options}` parameter can be `cmdopts` or `-q`. There is no need for an `{object}` type for ACUCLI since the application operates on internal commands supplied in the `command-string`.

## HPACUCLI ESXCLI syntax

The HPACUCLI utility is supported by the ESXCLI utility.

Use the following command syntax for all commands:

```
# esxcli -server="servername or IP" -user="username" -password="root password" hpacucli cmd -q "command-string"
```

The `command-string` parameter supports same commands that are specified at the HPACUCLI interactive command-line interface.

## Example 1

This example shows the information about all the SmartArray controller on the server.

```
esxcli -server="servername or IP" -user="username" -password="root
password" hpacucli cmd -q hpacucli cmd -q "controller all show status
"
```

The following output is displayed:

```
Smart Array P212 in Slot 9
  Controller Status: OK

Smart Array P410i in Slot 0 (Embedded)
  Controller Status: OK
  Cache Status: OK
  Battery/Capacitor Status: OK
```

## Example 2

This example shows the detailed configuration information for the SmartArray controller in slot 0.

```
# esxcli -server="servername or IP" -user="username" -password="root
password" hpacucli cmd -q hpacucli cmd -q "controller slot=0 show config
detail"
```

The following output is displayed:

```
Smart Array P410i in Slot 0 (Embedded)
  Bus Interface: PCI
  Slot: 0

  Serial Number: 5001438013A25C90
  Cache Serial Number: PBCDF0CRH0J7SD
  RAID 6 (ADG) Status: Disabled
  Controller Status: OK
  Hardware Revision: C
  Firmware Version: 3.70
  Rebuild Priority: Medium
  Expand Priority: Medium
  Surface Scan Delay: 15 secs
  Surface Scan Mode: Idle
  Queue Depth: Automatic
  Monitor and Performance Delay: 60 min
  Elevator Sort: Enabled
  Degraded Performance Optimization: Disabled
  Inconsistency Repair Policy: Disabled
  Wait for Cache Room: Disabled
  Surface Analysis Inconsistency Notification: Disabled
  Post Prompt Timeout: 0 secs
  Cache Board Present: True
  Cache Status: OK
  Accelerator Ratio: 25% Read / 75% Write
  Drive Write Cache: Disabled
  Total Cache Size: 1024 MB
  Total Cache Memory Available: 912 MB
  No-Battery Write Cache: Disabled
  Cache Backup Power Source: Capacitors
  Battery/Capacitor Count: 1
  Battery/Capacitor Status: OK
  SATA NCQ Supported: True

Array: A
  Interface Type: SAS
  Unused Space: 0 MB
  Status: OK
```

Logical Drive: 1  
Size: 136.7 GB  
Fault Tolerance: RAID 1  
Heads: 255  
Sectors Per Track: 32  
Cylinders: 35132  
Strip Size: 256 KB  
Full Stripe Size: 256 KB  
Status: OK  
Array Accelerator: Enabled  
Unique Identifier: 600508B1001CB65083D63C5E781ABF65  
Disk Name: vmhba2:C0:T0:L1  
Mount Points: None  
Logical Drive Label: A00D1AF35001438013A25C90F0BA  
Mirror Group 0:  
physicaldrive 1I:1:1 (port 1I:box 1:bay 1, SAS, 146 GB, OK)  
Mirror Group 1:  
physicaldrive 1I:1:2 (port 1I:box 1:bay 2, SAS, 146 GB, OK)

physicaldrive 1I:1:1  
Port: 1I  
Box: 1  
Bay: 1  
Status: OK  
Drive Type: Data Drive  
Interface Type: SAS  
Size: 146 GB

Rotational Speed: 10000  
Firmware Revision: HPDE  
Serial Number: 6SD3FJVL0000B145MFXB  
Model: HP EG0146FAWHU  
Current Temperature (C): 36  
Maximum Temperature (C): 46  
PHY Count: 2  
PHY Transfer Rate: 6.0GBPS, Unknown

physicaldrive 1I:1:2  
Port: 1I  
Box: 1  
Bay: 2  
Status: OK  
Drive Type: Data Drive  
Interface Type: SAS  
Size: 146 GB  
Rotational Speed: 10000  
Firmware Revision: HPDE  
Serial Number: 6SD3EVBH0000B144Q7RD  
Model: HP EG0146FAWHU  
Current Temperature (C): 37  
Maximum Temperature (C): 49  
PHY Count: 2  
PHY Transfer Rate: 6.0GBPS, Unknown

unassigned

physicaldrive 1I:1:3  
Port: 1I  
Box: 1  
Bay: 3  
Status: OK  
Drive Type: Unassigned Drive  
Interface Type: SAS  
Size: 146 GB  
Rotational Speed: 10000

```
Firmware Revision: HPDE
Serial Number: 6SD3FK4A0000B145J6JK
Model: HP          EG0146FAWHU
Current Temperature (C): 37
Maximum Temperature (C): 48
PHY Count: 2
PHY Transfer Rate: 6.0GBPS, Unknown
...
```

These examples are not inclusive of all the capabilities of the `HPACUCLI` command. Commands and options for additional operations using the `HPACUCLI`, such as creating a logical drive, are documented in the *HP Array Configuration Utility User Guide*.

## Generating an ADU report (diagnostics) from within HPACUCLI for ESXi 5.0 and updates

The ACUCLI application contains the ability to generate a diagnostic report of the system and its Smart Array storage configuration. The following steps are required in order to obtain an ADU report from a remote machine running ESXi 5.0 and updates.

1. Obtain and install the HP Array Diagnostics and SmartSSD Wear Gauge Utility:
  - a. Browse to <http://www.hp.com>
  - b. Click on **Support & Drivers**
  - c. Select **Drivers & Software**
  - d. In the search box, type **HP Array Configuration Utility**
  - e. Select the operating system of the client machine that will be used to remotely access the machine running ESXi 5.0 and updates.
  - f. Under the **Software – System Management** menu, proceed to download the **HP ProLiant Array Diagnostics and SmartSSD Wear Gauge Utility** by clicking on it's link.

---

**NOTE:** The desired version is 9.x or newer.

---

- g. Install the Windows component or Linux RPM package onto the client machine
2. Note the location where the package has installed the included applications and then update your system path to include this location.
  3. The client machine used to access the remote ESXi 5.0 and updates machine must also have the vSphere CLI `esxcli` command line tool installed and must be accessible through the system path. Ensure that the client machine location is included in the path.
  4. Use the following tool and associated command-line parameters to perform the creation and retrieval of the report:

```
hpaduesxi --server=<server_ip_address> --user=<username>
--password=<password> <targetfile.zip>
```

Example Usage:

```
hpaduesxi --server=10.12.132.5 --user=root --password=root.123
myreport.zip
```

The `hpaduesxi` application uses the supplied parameters to remotely obtain the report from your target ESXi 5.0 and updates machine and saves the data into the target zip file. The zip file can then be opened with any third-party zip application or with the `unzip` command under Linux.

The `hpaduesxi` application also contains onboard help which can be obtained by typing `hpaduesxi` with no parameters.

---

## 2 Support and other resources

This chapter provides information about the contact details and reference documents.

### Contacting HP

This section provides information about the prerequisites to be verified before contacting HP and mechanism supported by the organization for sharing the feedback.

#### Before you contact HP

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

- Technical support registration number (if applicable)
- Product serial number
- Product model name and number
- Product identification number
- Applicable error message
- Add-on boards or hardware
- Third-party hardware or software
- Operating system type and revision level

#### HP contact information

For the name of the nearest HP authorized reseller:

- See the Contact HP worldwide (in English) webpage (<http://welcome.hp.com/country/us/en/wwcontact.html>).

For HP technical support:

- In the United States, for contact options see the Contact HP United States webpage ([http://welcome.hp.com/country/us/en/contact\\_us.html](http://welcome.hp.com/country/us/en/contact_us.html)). To contact HP by phone:
  - Call 1-800-HP-INVENT (1-800-474-6836). This service is available 24 hours a day, 7 days a week. For continuous quality improvement, calls may be recorded or monitored.
  - If you have purchased a Care Pack (service upgrade), call 1-800-633-3600. For more information about Care Packs, refer to the HP website (<http://www.hp.com/hps>).
  - In other locations, see the Contact HP worldwide (in English) webpage (<http://welcome.hp.com/country/us/en/wwcontact.html>)

#### Subscription service

HP recommends that you register your product at the Subscriber's Choice for Business website: [http://www.hp.com/country/us/en/contact\\_us.html](http://www.hp.com/country/us/en/contact_us.html) After registering, you will receive email notification of product enhancements, new driver versions, firmware updates, and other product resources.

#### Documentation feedback

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## New and changed information in this edition

Current edition of the document provides information about the HPACUCLI utility supported on the ESXi version 5.0 and updates platform.

## Related information

Following documents and websites provide related information:

### Documents

Following documents are supported for the product:

- *HP VMware ESXi 5.0 Release Notes*
- *HP VMware ESXi 5.0 and Updates Getting Started Guide*
- *HP Insight Management WBEM Providers for HP integrated VMware ESXi Data Sheet*

### Websites

HP documents regarding VMware are available at the following location:

<https://h20392.www2.hp.com/portal/swdepot/searchProducts.do>.

## Typographic conventions

This document uses the following typographical conventions:

<code>%</code> , <code>\$</code> , or <code>#</code>	A percent sign represents the C shell system prompt. A dollar sign represents the system prompt for the Bourne, Korn, and POSIX shells. A number sign represents the superuser prompt.
<code>audit(5)</code>	A manpage. The manpage name is <i>audit</i> , and it is located in Section 5.
Command	A command name or qualified command phrase.
Computer output	Text displayed by the computer.
<b>Ctrl+x</b>	A key sequence. A sequence such as <b>Ctrl+x</b> indicates that you must hold down the key labeled <b>Ctrl</b> while you press another key or mouse button.
ENVIRONMENT VARIABLE	The name of an environment variable, for example, <code>PATH</code> .
ERROR NAME	The name of an error, usually returned in the <code>errno</code> variable.
<b>Key</b>	The name of a keyboard key. <b>Return</b> and <b>Enter</b> both refer to the same key.
Term	The defined use of an important word or phrase.
<b>User input</b>	Commands and other text that you type.
<i>Variable</i>	The name of a placeholder in a command, function, or other syntax display that you replace with an actual value.
[ ]	The contents are optional in syntax. If the contents are a list separated by <code> </code> , you must choose one of the items.
{ }	The contents are required in syntax. If the contents are a list separated by <code> </code> , you must choose one of the items.
...	The preceding element can be repeated an arbitrary number of times.
□	Indicates the continuation of a code example.
	Separates items in a list of choices.

WARNING	A warning calls attention to important information that if not understood or followed will result in personal injury or nonrecoverable system problems.
CAUTION	A caution calls attention to important information that if not understood or followed will result in data loss, data corruption, or damage to hardware or software.
IMPORTANT	This alert provides essential information to explain a concept or to complete a task
NOTE	A note contains additional information to emphasize or supplement important points of the main text.



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