Abstract

This reference provides installation details for the HPE Primera CLI remote client.
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Revision history

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<th>Part Number</th>
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HPE Primera CLI access options

When you receive your HPE Primera storage system, the installed HPE Primera OS includes the HPE Primera CLI. You can access the HPE Primera CLI from supported host systems using either Secure Shell (SSH) or the HPE Primera CLI remote client. Hewlett Packard Enterprise recommends using SSH to access the HPE Primera CLI for HPE Primera storage management purposes.

Secure Shell (SSH) client application

Most HPE Primera-supported host operating systems include an SSH client application that you can use to access the HPE Primera CLI. The exception is Microsoft Windows, which requires installing an SSH client. Using SSH requires no additional installation or setup of the HPE Primera CLI.

Other benefits of SSH access include the following:

Security

- **Encryption** – SSH uses strong, symmetric encryption to encrypt all information exchanged between the client and the server. SSH also allows the use of encrypted passwords.

- **Server authentication** – SSH supports the use of public or private keys for server authentication. In addition, SSH supports storing the public key on client machines, allowing the SSH client to compare the key presented by the server before allowing access.

- **User authentication** – SSH supports the use of public or private keys for user authentication.

Data integrity

SSH uses integrity checking to verify that no alteration of data occurs during transmission from sender to receiver.

Compatibility

SSH removes compatibility issues between client and server because you have no HPE Primera CLI client installed.

HPE Primera CLI remote client

The HPE Primera CLI also supports remote access from non-HPE Primera host systems to HPE Primera storage systems. HPE provides a CLI client that requires installation on each remote host. Using the HPE Primera CLI remote client requires separate installation on each host.
Installing the HPE Primera CLI remote client

Remote host specifications for the HPE Primera CLI remote client installation

Remote host specifications include software licensing, system requirements for host system hardware, and other information related to the HPE Primera CLI remote client. See Accessing the HPE Primera CLI remote client support matrix on SPOCK for supported host operating systems and versions.

🚨 IMPORTANT: Do not install, uninstall, or run multiple installations of the HPE Primera CLI at the same time. Doing so can cause the system to malfunction.

Licensing

The HPE HPE Primera Operating System licensing bundle includes licensing for the CLI remote client. Downloading the CLI remote client requires entering your Support Agreement ID (SAID).

System requirements

- 1.0 GHz processor or higher.
- 1 GB of installed RAM (2 GB recommended).
- CD or DVD drive (if installing from a CD).
- 1024 x 768 or better screen resolution.

Default software installation locations

HPE Primera uses the following default installation locations.

**Microsoft Windows**

- 32-bit system: C:\Program Files\Hewlett Packard Enterprise\HPE 3PAR CLI
- 64-bit system: C:\Program Files (x86)\Hewlett Packard Enterprise\HPE 3PAR CLI

**UNIX and Linux**

_/opt/hpe_3PAR_cli_

Accessing the HPE Primera CLI remote client support matrix on SPOCK

**Procedure**

1. Use your HPE Passport account to log in to SPOCK from any browser.
   
   If you do not have an HPE Passport account, you can create an account from the SPOCK login page.

2. In the left navigation pane of the SPOCK Home page, scroll down to Software, and then click SW: Primera.

3. In the HPE Primera software window, select either HPE Primera Operating System Software, and then click HPE Primera CLI Remote Client.
Preparing to install the HPE Primera CLI remote client

1. **Download the HPE Primera CLI remote client.**
2. Determine the latest supported operating systems for remote clients. See **Accessing the HPE Primera CLI remote client support matrix on SPOCK.**
3. Update the remote client operating system with all required and recommended patches or service packs.
4. For 64-bit Linux systems, install the 32-bit compatibility libraries, including 32-bit zlib and glibc and their dependent packages. For example:
   
   ```
   # rpm -Uvh zlib-<version>.el6.i686.rpm glibc-<version>.el6.i686.rpm
   ```

5. Remove previous versions of the HPE Primera CLI.
6. Review the HPE Primera CLI installation readme file packaged with the HPE Primera CLI & SNMP download. All platforms use the same download, but the installation files are different for each of the supported platforms.
7. Verify that the host or remote system meets the minimum system requirements. See **Remote host specifications for the HPE Primera CLI remote client installation.**
8. Configure the firewall.
9. Terminate all active HPE Primera CLI sessions.
10. Disable virus-checking software.

### Downloading the HPE Primera CLI remote client

**Prerequisites**

- Support Agreement ID (SAID), listed on your HPE support contract.
- HPE Passport credentials.

**Procedure**

1. From the host system, log into the **HPE Software Updates and Licensing (SU&L)** portal using your HPE Passport account information.
2. Select your SAID number from the list, or enter your SAID in the text box.
3. Review the terms and conditions, and then select the box that indicates your acceptance.
4. Click **View available products.**
5. Enter the HPE Primera OS version into the search text box, and then click **Search.**
6. From the list of available products, select the latest HPE Primera OS version, and then click **Get software update.**
7. From the list of available downloads, select **HPE_PRIMERA_4.0.1_CLI_SNMP_QR482-11422.ISO**, and then click **Download.**
   
   The .iso file downloads to your current system.
8. Make note of the name and location of the .iso file.
Installing the HPE CLI remote client in a Windows environment

Prerequisites

Before you begin the installation, complete the prerequisites for installing the HPE Primera CLI.

Procedure

1. Locate the .iso file, downloaded from the HPE Software Updates and Licensing (SU&L) portal (see Downloading the HPE Primera CLI).
   If the .iso file was burned to a CD, the installation begins automatically when you insert the CD into the CD drive.
   If the installation does not start automatically, or if you are working directly with the .iso file, proceed to the next step.
2. Double-click the .iso file to open it.
3. Navigate to the \cli\windows\ folder, and then double-click the setup.exe file.
4. Follow the onscreen instructions.

Creating a Windows response file for CLI remote client installation

You can install or uninstall the HPE Primera CLI from multiple Windows systems using a response file that mimics user interaction.

The response file contains standard answers to the scripted requests made by the wizard. You create the response file once.

Procedure

1. Open a Windows command prompt on a system where you want to install or uninstall the HPE Primera CLI.
2. Choose one of the following:
   For an installation:
   
   <D>:\cli\windows\setup.exe -r C:\cli_install_response.txt
   
   For an uninstall:
   
   # /opt/hpe_3par_cli/uninstall/uninstall -r C:\cli_uninstall_response.txt
3. Follow the onscreen instructions.
   The system saves the responses you enter during this process to a cli_<install> | <uninstall>_response.txt file.
4. Locate the saved response file at C:\cli_<type>_response.txt.

Installing the HPE CLI remote client silently on Microsoft Windows

A silent install does not require user input.

Prerequisites

- Complete the prerequisites for installing the HPE Primera CLI.
- Create a install response file.
Procedure

1. Open a Windows command prompt.

2. Enter the following command using the install response file name you created:

   \cli\windows\setup.exe -i silent -f C:\cli_install_response.txt

Installing the HPE Primera CLI remote client in UNIX or Linux environments

Prerequisites

Before you begin the installation, complete the prerequisites for installing the HPE Primera CLI.

Procedure

1. Open a terminal window on the host system.

2. Log in as root.

3. Locate the .iso file, downloaded from the HPE Software Updates and Licensing (SU&L) portal (see Downloading the HPE 3PAR CLI).

   • If the .iso file was burned to a CD, insert and mount the CD.
   • If you are working directly with the .iso file, proceed to the next step.

4. Start the installation using the setup.bin file and one of the following commands:

   • AIX: # /cdrom/cli/aix/setup.bin
   • HP-UX: # /cdrom/cli/hp-ux/setup.bin
   • Linux: # /cdrom/cli/linux/setup.bin
   • Solaris x86: # /cdrom/cli/solaris-ix86/setup.bin

5. To complete the installation, follow the onscreen instructions.

6. To finalize the installation, log out of the host system, and then log back in.

   The default installation location is /opt/hpe_3par_cli.

Creating a UNIX or Linux response file for HPE Primera CLI installation

You can install or uninstall the HPE Primera CLI remote client from multiple Linux or UNIX systems using a response file that mimics user interaction.

The response file contains standard answers to the scripted requests made by the wizard. You create the response file once.

Procedure

1. Open a terminal window on the host system.

2. Login as root.
3. Create the setup response file using the \(-r\) option.

```bash
# /cdrom/cli/[aix | hp-ux | linux | solaris | solaris-sparc | solaris-ix86]/setup.bin -r </full/path/to/cli_<install | uninstall>_response.txt>
```


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**Installing the HPE Primera CLI remote client silently in UNIX and Linux environments**

**Prerequisites**

- Complete [prerequisites for installing the HPE Primera CLI remote client](#).
- Create a setup response file.

**Procedure**

1. Open a terminal window on the host system.
2. Log in as root.
3. Locate the `.iso` file, downloaded from the [HPE Software Updates and Licensing (SU&L) portal](#).
4. Enter the command for the applicable operating system:

   - **On AIX:**
     ```bash
     # /cdrom/cli/aix/setup.bin -i silent -f </full/path/to/cli_setup_response.txt>
     ```

   - **On HP-UX:**
     ```bash
     # /cdrom/cli/hp-ux/setup.bin -i silent -f </full/path/to/cli_setup_response.txt>
     ```

   - **On Linux:**
     ```bash
     # /cdrom/cli/linux/setup.bin -i silent -f </full/path/to/cli_setup_response.txt>
     ```

   - **On Solaris SPARC:**
     ```bash
     # /cdrom/cli/solaris-sparc/setup.bin -i silent -f </full/path/to/cli_setup_response.txt>
     ```

   - **On Solaris x86:**
     ```bash
     # /cdrom/cli/solaris-ix86/setup.bin -i silent -f </full/path/to/cli_setup_response.txt>
     ```

5. Follow the onscreen instructions.
6. Log out of the host system, and then log back in.

   The default installation location is `/opt/hpe_3par_cli`. 
Websites

General websites
Hewlett Packard Enterprise Information Library
   www.hpe.com/info/EIL
Single Point of Connectivity Knowledge (SPOCK) Storage compatibility matrix
   www.hpe.com/storage/spock
Storage white papers and analyst reports
   www.hpe.com/storage/whitepapers

For additional websites, see Support and other resources.
Support and other resources

Accessing Hewlett Packard Enterprise Support

- For live assistance, go to the Contact Hewlett Packard Enterprise Worldwide website:
  http://www.hpe.com/info/assistance
- To access documentation and support services, go to the Hewlett Packard Enterprise Support Center website:
  http://www.hpe.com/support/hpesc

Information to collect

- Technical support registration number (if applicable)
- Product name, model or version, and serial number
- Operating system name and version
- Firmware version
- Error messages
- Product-specific reports and logs
- Add-on products or components
- Third-party products or components

Accessing updates

- Some software products provide a mechanism for accessing software updates through the product interface. Review your product documentation to identify the recommended software update method.

- To download product updates:
  Hewlett Packard Enterprise Support Center
  www.hpe.com/support/hpesc

  Hewlett Packard Enterprise Support Center: Software downloads
  www.hpe.com/support/downloads

  Software Depot
  www.hpe.com/support/softwaredepot

- To subscribe to eNewsletters and alerts:
  www.hpe.com/support/e-updates

- To view and update your entitlements, and to link your contracts and warranties with your profile, go to the Hewlett Packard Enterprise Support Center More Information on Access to Support Materials page:
  www.hpe.com/support/AccessToSupportMaterials

IMPORTANT: Access to some updates might require product entitlement when accessed through the Hewlett Packard Enterprise Support Center. You must have an HPE Passport set up with relevant entitlements.
Customer self repair

Hewlett Packard Enterprise customer self repair (CSR) programs allow you to repair your product. If a CSR part needs to be replaced, it will be shipped directly to you so that you can install it at your convenience. Some parts do not qualify for CSR. Your Hewlett Packard Enterprise authorized service provider will determine whether a repair can be accomplished by CSR.

For more information about CSR, contact your local service provider or go to the CSR website:

http://www.hpe.com/support/selfrepair

Remote support

Remote support is available with supported devices as part of your warranty or contractual support agreement. It provides intelligent event diagnosis, and automatic, secure submission of hardware event notifications to Hewlett Packard Enterprise, which will initiate a fast and accurate resolution based on your product's service level. Hewlett Packard Enterprise strongly recommends that you register your device for remote support.

If your product includes additional remote support details, use search to locate that information.

Remote support and Proactive Care information
HPE Get Connected
www.hpe.com/services/getconnected
HPE Proactive Care services
www.hpe.com/services/proactivecare
HPE Datacenter Care services
www.hpe.com/services/datacentercare
HPE Proactive Care service: Supported products list
www.hpe.com/services/proactivecaresupportedproducts
HPE Proactive Care advanced service: Supported products list
www.hpe.com/services/proactivecareadvancedsupportedproducts

Proactive Care customer information
Proactive Care central
www.hpe.com/services/proactivecarecentral
Proactive Care service activation
www.hpe.com/services/proactivecarecentralgetstarted

Warranty information

To view the warranty information for your product, see the links provided below:

HPE ProLiant and IA-32 Servers and Options
www.hpe.com/support/ProLiantServers-Warranties
HPE Enterprise and Cloudline Servers
www.hpe.com/support/EnterpriseServers-Warranties
HPE Storage Products
www.hpe.com/support/Storage-Warranties
HPE Networking Products
www.hpe.com/support/Networking-Warranties
Regulatory information

To view the regulatory information for your product, view the Safety and Compliance Information for Server, Storage, Power, Networking, and Rack Products, available at the Hewlett Packard Enterprise Support Center:

www.hpe.com/support/Safety-Compliance-EnterpriseProducts

Additional regulatory information

Hewlett Packard Enterprise is committed to providing our customers with information about the chemical substances in our products as needed to comply with legal requirements such as REACH (Regulation EC No 1907/2006 of the European Parliament and the Council). A chemical information report for this product can be found at:

www.hpe.com/info/reach

For Hewlett Packard Enterprise product environmental and safety information and compliance data, including RoHS and REACH, see:

www.hpe.com/info/ecodata

For Hewlett Packard Enterprise environmental information, including company programs, product recycling, and energy efficiency, see:

www.hpe.com/info/environment

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