Abstract
This guide provides a brief overview of how to install and use the RESTful Interface Tool to manage servers using the iLO REST APIs. Example scripts and commands can be found on the Hewlett Packard Enterprise GitHub repository.
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Linux® is the registered trademark of Linus Torvalds in the U.S. and other countries.
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The RESTful Interface Tool is a command line interface that allows you to manage Hewlett Packard Enterprise products that take advantage of RESTful APIs. For this release of the tool, you can manage HPE Gen9 servers running iLO 4 2.00 or later through iLO RESTful APIs. You can install the tool on your computer for remote use or you can install the tool locally on a server with a Windows OS or Linux OS. In addition to using the tool manually to execute individual commands, you can create scripts to automate tasks.

The RESTful Interface Tool can display and set parameters for the following:

- HPE BIOS/UEFI (including secure boot)
- HPE iLO 4/iLO 5
- HPE iLO Repository
- Smart Array support
Installing and starting the RESTful Interface Tool

Requirements

The following is a list of requirements for the server you want to manage with the tool:

• Local management: Gen9 server with a Windows OS or Linux OS (64-bit) installed (If you want to install the tool locally on the server).

• Remote management: Gen9 server with or without an OS installed.

• iLO 4 2.00 or later.

• The install packages are available for download from http://www.hpe.com/info/resttool.

Updating the JSON schemas used by the RESTful Interface Tool

If you are using iLO 2.10 or later and the RESTful Interface Tool 1.30 or later, the JSON schemas are automatically updated. If you are using an earlier version of iLO or an earlier version of the RESTful Interface Tool, you must manually get the latest JSON schemas from the SPP located in the hp_restful_api directory. Copy the schema files to the appropriate directory:

• Windows
  \Program Files\Hewlett Packard Enterprise\HP RESTful Interface Tool\

• Linux
  /usr/share/hprest

Installing the RESTful Interface Tool

The following installation steps describe how to install the tool in a Windows OS or Linux OS.

Windows

Procedure


2. Install the package on the server you prefer to manage for local management. For remote management, install the package on a laptop or server that has access to the managed server network.

Linux
1. Download the RESTful Interface Tool (Linux RPM package) from http://www.hpe.com/info/resttool.

2. Install the installation package on the server you prefer to manage for local management. For remote management, install the package on a laptop or server that has access to the managed server network.

Starting the RESTful Interface Tool

Windows

Procedure

1. Click the Start menu.
2. Click Hewlett Packard Enterprise > HPE RESTful Interface Tool.
3. Right-click the HPE RESTful Interface Tool prompt, and then click Run as Administrator.

Linux

1. Open a terminal window.
2. To start interactive mode, run the command /usr/sbin/ilorest (using administrator privileges).
RESTful Interface Tool Modes of operation

The RESTful Interface Tool has three modes of operation. By default, the interactive mode is utilized when you start the RESTful Interface Tool. With Scriptable Mode, you can use a script that gives commands to the RESTful Interface Tool. File-Based mode allows you to use a script that gives commands to the RESTful Interface Tool and use a file to load and save settings.

Interactive mode

Interactive mode is started when you run the RESTful Interface Tool without any command line parameters. The ilorest> prompt is displayed and you can enter commands one at a time. You can exit the interactive mode by entering the exit command at the prompt. On Windows systems, double-click ilorest.exe to start an interactive session. You must be an administrator to run ilorest.exe.

Scriptable mode

Scriptable mode is used if you want to script all the commands with the use of an external input file. The script contains a list of the RESTful Interface Tool command lines that let users get and set properties of server objects.

File-based mode

File-based mode allows you to save and load settings from a file. This is similar to the conrep.dat files used by CONREP. File-based mode supports the JSON format.
Where to find additional RESTful Interface Tool information

Go to https://hewlettpackard.github.io/python-redfish-utility/ to find more information about the RESTful Interface Tool, including the following:

- Commands for the RESTful Interface Tool
- Macro Commands and Scripts
- Script Examples
- Error Codes
Support and other resources

Websites

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<th>Website</th>
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<tr>
<td>Hewlett Packard Enterprise Information Library</td>
<td><a href="http://www.hpe.com/info/enterprise/docs">www.hpe.com/info/enterprise/docs</a></td>
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<td>Hewlett Packard Enterprise Support Center</td>
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<td>Contact Hewlett Packard Enterprise Worldwide</td>
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<td>Storage white papers and analyst reports</td>
<td><a href="http://www.hpe.com/storage/whitepapers">www.hpe.com/storage/whitepapers</a></td>
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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/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 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 for your product or to view the Safety and Compliance Information for Server, Storage, Power, Networking, and Rack Products reference document, go to the Enterprise Safety and Compliance website:
   www.hpe.com/support/Safety-Compliance-EnterpriseProducts

Additional warranty information
HPE ProLiant and x86 Servers and Options
   www.hpe.com/support/ProLiantServers-Warranties
HPE Enterprise 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

Documentation feedback

Hewlett Packard Enterprise is committed to providing documentation that meets your needs. To help us improve the documentation, send any errors, suggestions, or comments to Documentation Feedback (docsfeedback@hpe.com). When submitting your feedback, include the document title, part number, edition, and publication date located on the front cover of the document. For online help content, include the product name, product version, help edition, and publication date located on the legal notices page.