Hewlett Packard Enterprise

Server Automation

SUSE Manager Importer

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Contents

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[1] This functionality was introduced for SA 10.22 and above, but can be made available for SA 10.21 as well. Please contact the support team for further details.

HPSA SUSE Manager Importer Overview

The HPSA SUSE Manager Importer is a tool based on HPSA RedHat Importer. The program imports packages and errata from a SUSE Manager 2.1 Server, creates HPSA Software Policies for errata and packages hosted by SUSE Manager.

How to install SUSE Manager CA certificate

Note: Please skip this section if your SA version is below 10.22.

By default suse_manager_import validates the SUSE Manager server certificate. The remote server certificate is self-signed so by default there is no CA bundled with HPSA OSPWopenssl component. To enable access for suse_manager_import to SUSE Manager server, you need to install the self signed server certificate in the OSPWopenssl trust store.

To install SUSE Manager CA certificate, perform the following steps:

1. Download the self signed certificate from SUSE Manager

2. Install the self signed certificate in HPSA trust store

3. Verify that OPSWopenssl is validating the server certificate

Download the self signed certificate from SUSE Manger

The self signed certificate is made public by SUSE Manager at /pub/RHN-ORG-TRUSTED-SSL-CERT. Run the following command to download the certificate file:

```
wget -O /tmp/RHN-ORG-TRUSTED-SSL-CERT  http://suse.manager.hostname/pub/RHN-ORG-TRUSTED-SSL-CERT
```

If you need proxy access to SUSE Manager server you can export the http_proxy environment variable and wget will use the value exported.

Install the self signed certificate in HPSA trust store.

After the file is downloaded, open it and at the end of the file you should see a block that appears as the following:

```
-----BEGIN CERTIFICATE-----

MIIE4TCCA8mgAwIBAgIJANwa5OFPkBHHMA0GCSqGSIb3DQEBCwUAMIGGMQswCQYD

haXhmbq+5pEkpxGAactW+tORsJmpgTdAXeq2rreYtgZ2/vCwdM0iwSVakGNFAvni

T9lnSVrADcO/S8V/DzcH30RzSpIS44beE23zag82019fCrsZg9VkYJER4Fn0tRq4

6U9I4OgBSPSU34MXclGld0BAN+mANWHQYacZ7hHQJtMRP+mc8ZgHIvsKNnKRoHOd

Rhla7cP7GYrXn/piQAxRW66fOYJOeVIsAWJvgUb+A8ecwb+s6k56cQdLKkm0wKD0

2zUFMAg=

-----END CERTIFICATE-----
```

Please copy the block and then open /opt/opsware/openssl/cert.pem in your favorite editor. Paste the content of the copied certificate at the end of the file.

The certificate gets installed in the HPSA trust store. Ensure that openssl tool verifies SUSE Manager server certificate.

Verify that OPSWopenssl is validating the server certificate

After the CA certificate is installed in HPSA trust store, you must verify if openssl validates the SUSE Manager certificate before running the importer. To do so, please run the following command:

```
/opt/opsware/bin/openssl s_client -connect suse.manager.hostname:443 -verify 3
```

If the verification process is successful, at the end of the output you should see the following message:

```
Verify return code: 0 (ok)
```

Otherwise, if something went wrong you should see a return code different than 0, for example:

```
Verify return code: 21 (unable to verify the first certificate)
```

How does a HPSA SUSE Manager Importer tool work

The basis for SUSE Manager is the channel. A channel is a grouping of one or more packages associated with a product repository. A patch released by SUSE is called as an erratum in HPSA and a collection of these patches is called errata in HPSA.

Channels are of two types

1. Parent channels
2. Child channels.

Parent channels are usually, but not necessarily, associated with *Pool* repositories whereas the *Updates* repositories are considered as child channels of a *Pool* repository. There might be other kinds of child channels that are not *Updates* repositories.

Note: If you import a label associated with a *Pool* channel no erratum or errata will be imported because *Pool* channels do not have patches associated with it. If a channel with *Updates* label is imported into HPSA, a channel software policy is created that contains all packages from errata.

The HPSA SUSE Manager Importer supports both parent and child channels .The command line options allows you to group all imported errata for a particular channel into a single Software Policy.

Usage

The new importer binary (suse_manager_import) for SUSE Manager 2.1 is located at `/opt/opsware/sles_import/bin`.

To run it call `/opt/opsware/sles_import/bin/suse_manager_import --mode=all [CHANNEL_LABEL...]`

The --mode option specifies what to import. The 'all' value specifies that you want to import packages of a channel, create a Channel Software Policy in HPSA, import errata and create Software Policies for each erratum. Finally, all erratum policies will be grouped into a single errata policy.

Besides the 'all' value you can also choose among 'channel', 'erratum' and 'errata'.

- Channel imports packages from a channel and then creates a Software Policy.
- Erratum imports patches and creates software policies.
- Errata imports all erratums and groups them into a single software policy.

By default suse_manager_import uses a configuration file located at `/etc/opt/opsware/sles_import/suse_manager.conf`. If you want to specify another location for the configuration file you can use the --conf=FILE option.

To show the platforms supported by HPSA run `./suse_manager_import --show_platforms`

To show the labels that are supported by default in HPSA and on your SUSE Manager Server, run `./suse_manager_import --show_labels`

How to configure HPSA SUSE Manager Importer

To run HPSA SUSE Manager Importer with a default configuration file you have to create one at `/etc/opt/opsware/sles_import/suse_manager.conf`.

A template configuration file is available at `/etc/opt/opsware/sles_import/suse_manager.conf-sample`.

The steps to do this are as follows:

1. `cp /etc/opt/opsware/sles_import/suse_manager.conf-sample /etc/opt/opsware/sles_import/suse_manager.conf`

2. `chmod u+w /etc/opt/opsware/sles_import/suse_manager.conf`

3. `edit /etc/opt/opsware/sles_import/suse_manager.conf`

4. Fill the 'host' option with the hostname/IP address of your SUSE Manager Server.

Note: If you have a custom port you can append ':<port number>' to the IP address or hostname. If port number is not provided the importer uses the default HTTPS port which is 443.

5. Fill the user and pass with SUSE Manager username and password.

6. If you use a proxy you can also configure it following the instructions from the configuration file.

7. Configure the HPSA credentials by filling the 'opsware_user' and 'opsware_password' fields.

8. In the channel option you can list the channels you want to import. If you are unsure what values are valid you can save the configuration file and run

`/opt/opsware/sles_import/bin/suse_manager_import --show_labels`.

At this stage the importer should be able to access HPSA and your SUSE Manager 2.1 to determine the default supported labels. Later you can come back and fill the channels option with valid values.

Channel labels can also be specified in the command line, provided that all required options (that is SUSE Manager hostname, user and password) are defined in the configuration file. If no label is provided in the command line or in the configuration file then all default supported parent channels will be imported.

Examples

`/opt/opsware/sles_import/bin/suse_manager_import --show_platforms`

`/opt/opsware/sles_import/bin/suse_manager_import --show_labels`

`/opt/opsware/sles_import/bin/suse_manager_import --mode=all`

`/opt/opsware/sles_import/bin/suse_manager_import --mode=channel sles12-pool-x86_64`

`/opt/opsware/sles_import/bin/suse_manager_import --mode=channel sles12-pool-x86_64 --preview`

`/opt/opsware/sles_import/bin/suse_manager_import --mode=erratum sles11-sp4-updates-x86_64`

`/opt/opsware/sles_import/bin/suse_manager_import --mode=errata sles12-updates-x86_64`

`/opt/opsware/sles_import/bin/suse_manager_import -m all`

`/opt/opsware/sles_import/bin/suse_manager_import --verbose`

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