

Installation and Configuration Guide

For

VMware vRealize Automation OpenStack Havana Plugin 1.0.0

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The most current vRealize Automation documentation is at <https://www.vmware.com/support/pubs/vcac-pubs.html>.

You can access the vRealize Automation Documentation Center at <http://pubs.vmware.com/vra-62/index.jsp>.

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1. vRealize Automation 6.2 OpenStack Havana Endpoint Configuration

By default, vRealize Automation uses the Grizzly version of OpenStack to create an endpoint. This extension package enables you to create a new endpoint that uses the OpenStack Havana version instead of the Grizzly version.

You specify the Havana version by adding the `VMware.Endpoint.Openstack.Release` custom property when you create the endpoint.

2. OpenStack Havana Extension Package Contents

The OpenStack Havana extension package, OpenstackHavana.zip, contains the these files.

File Name	Description
Eula.txt	VMware end user license agreement
install-openstack-havana-endpoint-model-manager-data.cmd	Installation batch file
Newtonsoft.Json.506.dll	Resource library
openstacknet_vmw_131.dll	Resource library
Readme.pdf	This document
SimpleRESTServices.1301.dll	Resource library
VMware.Openstack.Interface.Havana.dll	Interface library

3. Copying and Installing the OpenStack Extension Package

Use these procedures to copy and install the OpenStack Extension.

3.1 Copy the OpenStack Extension Package

Use this procedure to copy the OpenStack Extension Package to the IaaS Model Manager Data machine.

Prerequisites

- vRealize Automation 6.2
- Logged in to the IaaS Model Manager Data machine with administrator privileges
- OpenstackHavana.zip

Procedure

Copy OpenstackHavana.zip to a directory of your choice, and extract the files using a utility of your choice, such as [7-Zip File Manager](#).

3.2 Install the OpenStack Extension Package

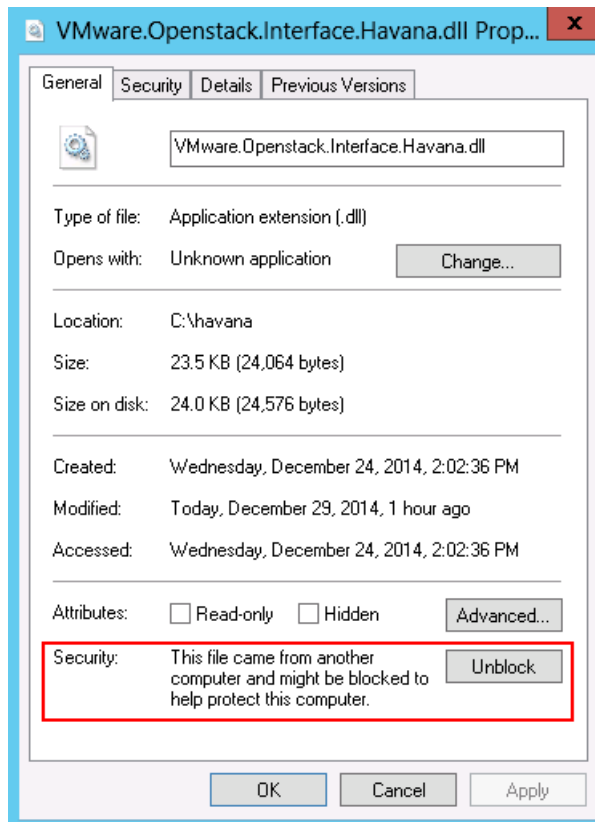
Use this procedure to install the OpenStack Extension Package.

Prerequisites

- vRealize Automation 6.2
- Logged in to the IaaS Model Manager machine with administrator privileges
- OpenstackHavana.zip copied to a directory on the IaaS Model Manager Data machine

Procedure

1. Navigate to the directory where you copied and extracted OpenstackHavana.zip
 - a. Right click on VMware.Openstack.Interface.Havana.dll and select **Properties**.
 - b. If there is a security warning displayed, click the **Unblock** button.



- c. Click the **Apply** button.
 - d. Click the **OK** button.
2. Repeat Step 1 for the following files:
 - a. Newtonsoft.Json.506.dll
 - b. openstacknet_vmw_131.dll
 - c. SimpleRESTServices.1301.dll
 3. Open a command prompt as Administrator, navigate to the directory where you copied and extracted OpenstackHavana.zip.
 4. Run the install-openstack-havana-endpoint-model-manager-data.cmd batch file.
 5. When prompted, enter **Y** to accept the End User License Agreement (EULA).
 6. When prompted, specify the path to the Model Manager Data directory, and press **Enter**.

Table 1 displays an example of what you see when you run the batch file.

Table 1. Example Batch File Output

```
C:\AnyDirectoryIsFine\OpenstackHavana>install-openstack-havana-endpoint-model-
manager-data.cmd
```

Batch file

```

C:\AnyDirectoryIsFine\OpenstackHavana>SETLOCAL enableextensions
enabledelayedexpansion

.
.
.

Please enter the root vCAC installation directory with no double quotes,
spaces are allowed (Default="C:\Program Files (x86)\VMware\vCAC\Server\Model
Manager Data"):

Using Default

Using: "C:\Program Files (x86)\VMware\vCAC\Server\Model Manager Data"

.
.
.

***** Uninstalling old assemblies (if they exist) - ignore any errors *****

.
.
.

"C:\Program Files (x86)\VMware\vCAC\Server\Model Manager Data"\repoutil
Assembly-Uninstall -f VMware.Openstack.Interface.Havana.dll -v

Command completed.

+

"C:\Program Files (x86)\VMware\vCAC\Server\Model Manager Data"\repoutil
Assembly-Uninstall -f openstacknet_vmw_131.dll -v

Command completed.

+

"C:\Program Files (x86)\VMware\vCAC\Server\Model Manager Data"\repoutil
Assembly-Uninstall -f SimpleRESTServices.1301.dll -v

Command completed.

+

```

The default location of the Model Manager Data directory for vRealize Automation displays. If this directory is in another location, edit the path before you continue.


```
"C:\Program Files (x86)\VMware\vCAC\Server\Model Manager Data"\repoutil
Assembly-Uninstall -f Newtonsoft.Json.506.dll -v

Command completed.

.

.

.

***** Installing assemblies *****

.

.

.

"C:\Program Files (x86)\VMware\vCAC\Server\Model Manager Data"\repoutil
Assembly-Install -f VMware.Openstack.Interface.Havana.dll -v

Command completed.

+

"C:\Program Files (x86)\VMware\vCAC\Server\Model Manager Data"\repoutil
Assembly-Install -f openstacknet_vmw_131.dll -v

Command completed.

+

"C:\Program Files (x86)\VMware\vCAC\Server\Model Manager Data"\repoutil
Assembly-Install -f SimpleRESTServices.1301.dll -v

Command completed.

+

"C:\Program Files (x86)\VMware\vCAC\Server\Model Manager Data"\repoutil
Assembly-Install -f Newtonsoft.Json.506.dll -v

Command completed.

.

.

.
```

4. Creating a New Havana OpenStack Endpoint

After installing the OpenStack extension, use these procedures to create an OpenStack endpoint.

4.1 Create a New Havana OpenStack Endpoint

Use this procedure to create a new Havana OpenStack endpoint.

Prerequisites

Logged in to the vRealize Automation 6.2 console as a fabric administrator

Procedure

Use the vRealize Automation console to create a new OpenStack endpoint. For instructions, see the [“Create a Red Hat OpenStack Endpoint”](#) documentation in the [VMware vRealize Automation 6.2 Documentation Center](#).

This table contains the information you need to enter when you create a new Havana endpoint.

Table 2. Havana OpenStack Endpoint Information


Data	Description
Name	Specify a unique name for this endpoint, for example, Openstack Havana Redhat.
(Optional) Description	If necessary, enter reference information in the textbox.
Address	Enter the URL for this endpoint, for example, <code>http://<server_name>.local:5000/v2.0</code> . Note: Include the /v2.0 suffix in the address.
Credentials	Click the Select Credentials link (), click New Credentials, and select the the appropriate credentials, for example, HavanaOpenstackSqa.
OpenStack project	Red Hat OpenStack tenant name
Custom Properties	Specify VMware.Endpoint.Openstack.Release with the value Havana. Important: Changing the custom property after data collection will break the endpoint.

Figure 1 displays a completed page for creating a new Havana OpenStack endpoint.

Figure 1. Creating a New Havana OpenStack Endpoint

The screenshot shows the VMware vRealize Automation interface. The top navigation bar includes Home, Catalog, Items, Requests, Inbox, Administration, and Infrastructure. The breadcrumb trail indicates the current location: Infrastructure > Endpoints > Endpoints. A warning message states: "Compute resources for this endpoint were data collected. Any changes to endpoint credentials can have adverse effects." The main content area is titled "Edit Endpoint - OpenStack" and includes the sub-header "Manage a specific endpoint." The form contains the following fields:

- Name:** Openstack Havana Redhat
- Description:** (empty text area)
- Address:** http://sqa-os-havana.sqa.local:5000/v2.0
- Credentials:** HavanaOpenstackSqa
- OpenStack project:** demo

The "Custom properties" section shows a table with one property:

Properties (1)				New Property
	Name	Value	Encrypted	
	VMware.Endpoint.Openstack.Release	Havana	No	

At the bottom of the form are "OK" and "Cancel" buttons.

5. Known Issues

ID	Category	Description
1367698	Endpoint	<p data-bbox="599 436 1365 548">Inventory data collection for a Havana endpoint throws an exception on networks if the user fails to add in the <code>VMware.Endpoint.Openstack.Release</code> custom property.</p> <p data-bbox="599 583 1365 779">If the custom property is not specified on the endpoint, the code assumes that it is a Grizzly endpoint. In this case, the endpoint is pointing to a Havana deployment, but due to the absence of the custom property, the code assumes that it is a Grizzly endpoint, which can cause an exception.</p>