Test Plan for Openbook 1.0.0 Fuel Plugin

Test Plan for Openbook 1.1.0 Fuel Plugin

Revision history

Openbook Plugin

Developer's specification

Limitations

Test strategy

Acceptance criteria

Test environment, infrastructure and tools

Product compatibility matrix

Type of testing

Verify Communication with OpenStack

Verify OpenStack Resource Manager Creation

System testing

Install plugin and deploy environment

Modifying env with enabled plugin (removing/adding controller nodes)

Modifying env with enabled plugin (removing compute node)

Uninstall of plugin with deployed environment

Uninstall of plugin

<u>Appendix</u>

Revision history

Version	Revision date	Editor	Comment
0.1	23.01.2015	Irina Povolotskaya (ipovolotskaya@mirantis.com)	Created the template structure.
0.2	22.10.2015	Jeremy Fluhmann (jeremy@talligent.com)	Filled template for Openbook Fuel Plugin.

Openbook Plugin

This plugin extends Mirantis OpenStack functionality by adding Openbook customer onboarding, self-service, and cloud billing / charge-back services. Openbook is a fully-functional, simple to use cloud management solution that has been built specifically for OpenStack. It allows users to measure, manage, and monetize clouds built on OpenStack.

Developer's specification

Available on Github repo for openstack/fuel-plugin-openbook [1].

Limitations

The Openbook Fuel Plugin requires Ceilometer (OpenStack Telemetry) to be included in the OpenStack environment. It also requires a <u>Sharefile account for Talligent [2]</u> and access to the Internet.

Test strategy

Openbook Fuel Plugin pulls information from several OpenStack endpoints. The communication between Openbook and OpenStack is tested through the Openbook API. One test verifies initial communication with the Keystone admin endpoint, while the other verifies communication with the other OpenStack endpoints.

Acceptance criteria

An OpenStack Resource Manager should be added to Openbook. This is verified by reviewing output from the deployment.

Test environment, infrastructure and tools

All cases run in a single environment consisting of a Fuel master node, one or more controller nodes with Ceilometer, at least one compute node, and one Openbook node.

Product compatibility matrix

The Openbook Fuel Plugin is developed for Mirantis OpenStack 6.1 Kilo on Ubuntu 14.04.

Type of testing

The puppet modules for the plugin test the connectivity to OpenStack prior to creating an OpenStack Resource Manager. The output of these tests is directed to files residing on the node.

Verify Communication with OpenStack

Test Case ID	verify_comm_with_openstack	
Description	Verify that Openbook can communicate with Keystone on the admin port	
Prerequisites	OpenStack nodes have been deployed. Operating System node has been deployed with the name 'openbook'.	
Steps	 SSH onto the Fuel Master node Identify the IP address of the 'openbook' node via: fuel nodes SSH to the 'openbook' node cat /tmp/connectivity-test-results.txt 	
Expected Result	Output of step 4 contains service catalog results for OpenStack	

Verify OpenStack Resource Manager Creation

Test Case ID	verify_os_resource_manager_creation	
Description	Verify that Openbook can sync with all necessary OpenStack service endpoints.	
Prerequisites	OpenStack nodes have been deployed. Operating System node has been deployed with the name 'openbook'.	
Steps	 SSH onto the Fuel Master node Identify the IP address of the 'openbook' node via: fuel nodes SSH to the 'openbook' node cat /tmp/resource_manager_results.txt 	
Expected Result	Output of step 4 contains "HTTP/1.1 201 Created"	

System testing

Install plugin and deploy environment

Test Case ID	install_plugin_deploy_env
Steps	 Upload plugin to the master node Install plugin Ensure that plugin is installed successfully using cli Create environment with enabled plugin in fuel ui Add 3 nodes with Controller role, 1 node with Compute role, and 1 node with base-os role Apply network settings Run network verification Deploy the cluster Check plugin health using cli Run OSTF
Expected Result	Plugin is installed successfully, cluster is created, network verification and OSTF are passed, and all plugin services is enabled and worked as expected.

Modifying env with enabled plugin (removing/adding controller nodes)

Test Case ID	modify_env_with_plugin_remove_add_controller
Steps	 Upload plugin to the master node Install plugin Ensure that plugin is installed successfully using cli Create environment with enabled plugin in fuel ui Add 3 nodes with Controller role, 1 node with Compute role, and 1 node with base-os role Apply network settings Run network verification Deploy the cluster Check plugin services using cli Run OSTF Remove 1 nodes with Controller role Re-deploy cluster Run OSTF Add 1 new node with Controller role Re-deploy cluster Re-deploy cluster

	16. Run OSTF
Expected Result	Plugin is installed successfully, cluster is created, network verification and OSTF are passed, and all plugin services is enabled after migration in ha mode and worked as expected after modifying of environment.

Modifying env with enabled plugin (removing/adding compute node)

Test Case ID	modify_env_with_plugin_remove_add_compute
Steps	 Upload plugin to the master node Install plugin Ensure that plugin is installed successfully using cli Create environment with enabled plugin in fuel ui Add 3 nodes with Controller role, 2 nodes with compute roles, and 1 node with base-os role Apply network settings Run network verification Deploy the cluster Check plugin services using cli Run OSTF Remove 1 compute node Re-deploy cluster Run OSTF Add 1 compute node Re-deploy cluster Re-deploy cluster Re-deploy cluster Re-deploy cluster Run OSTF
Expected Result	Plugin is installed successfully, cluster is created, network verification and OSTF are passed, and all plugin services is enabled and worked as expected after modifying of environment.

Uninstall of plugin with deployed environment

Test Case ID	uninstall_plugin_with_deployed_env
Steps	 install plugin deploy environment with enabled plugin functionality run ostf try to delete plugin and ensure that present in cli alert: "400 Client Error: Bad Request (Can't delete plugin which is enabled for some environment.)" remove environment

	remove plugin check that it was successfully removed
Expected Result	Plugin was installed successfully. Alert is present when we trying to delete plugin which is attached to enabled environment. When environment was removed, plugin is removed successfully too.

Uninstall of plugin

Test Case ID	uninstall_plugin
Steps	 install plugin check that it was installed successfully remove plugin check that it was successfully removed
Expected Result	Plugin was installed and then removed successfully

Appendix

Provide any links to external resources or documentation here.

Nº	Resource title
1	https://github.com/openstack/fuel-plugin-openbook/blob/master/specs/openbook-plugin.rst
2	https://talligent.sharefile.com/