



TEST REPORT

for

ScaleIO Plugin 2.0-2.0.0-1
Mirantis OpenStack 6.1/7.0

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Revision history

Versi on	Revisio n date	Editor	Comment
1.0	07.06.2016	Alexey Morlang (alexey.morlang@emc.com)	Initial version

Document purpose

This document provides test run results for *System testing of ScaleIO Fuel Plugin 2.0-2.0.0-1* on Mirantis OpenStack 6.1 and 7.0.

Test environment

The test lab should include 5 nodes. The following designations for the nodes:

- 1) Fuel master node (w/ 50GB Disk, 2 Network interfaces [Mgmt, PXE])
- 2) OpenStack Controller #1 node
- 3) OpenStack Controller #2 node
- 4) OpenStack Controller #3 node
- 5) OpenStack Compute node

Each node shall have at least 2 CPUs, 4GB RAM, 2x100GB disks, 3 Network interfaces. The 3 interfaces will be used for the following purposes:

- Admin (PXE) network: Mirantis OpenStack uses PXE booting to install the operating system, and then loads the OpenStack packages for you.
- Private, Management and Storage networks: All of the OpenStack management traffic will flow over this network ("Management" and "Storage" will be separated by VLANs). To re-use the network it will also host the private network. It will be added into each Virtual Machines when they boot. It will therefore be the route where traffic flows in and out of the VM.
- Private network: This network is used by OpenStack service nodes and the floating IP address range. Public network must have access to the internet.

In order to perform management operations with ScaleIO cluster there is the tool 'scli'. It is a management tool that is available on all controller nodes after deployment.

Plugin's RPM

Name	md5 checksum
scaleio-2.0-2.0.0-1.noarch.rpm	fc80528311ce4ae2c6b71e9fe7c8d4a

Test coverage and metrics

ScaleIO Fuel plugin System testing process had a test coverage of 100%.

Test results summary

The ScaleIO plugin has the following system tests.

#	Test case ID	Comment
1	install_plugin_deploy_env	Verify that plugin can be installed onto Fuel Master node and OpenStack environment is deployed with ScaleIO as Storage backend.
2	modify_env_with_plugin_remove_add_controller	Verify that deployed OpenStack environment could be modified - removed one controller Node and added back new one.
3	modify_env_with_plugin_remove_add_compute	Verify that deployed OpenStack environment could be modified - removed one compute Node and added back new one.
4	uninstall_plugin_with_deployed_env	Ensure that plugin cannot be uninstalled if there is OpenStack environment deployed with enabled ScaleIO plugin.
5	uninstall_plugin	Ensure that plugin can be uninstalled if there is no OpenStack environment deployed with enabled ScaleIO plugin.

System testing

Coverage of features

Parameter	Value
Total quantity of executed test cases	5
Total quantity of not executed test cases	0
Quantity of automated test cases	0
Quantity of not automated test cases	5

Detailed testrun results

#	Test case ID	Passed	Failed	Skipped	Comment
1	install_plugin_deploy_env	✓			
2	modify_env_with_plugin_remove_add_controller	✓			
3	modify_env_with_plugin_remove_add_compute	✓			
4	uninstall_plugin_with_deployed_env	✓			
5	uninstall_plugin	✓			
Total	5	✓			
Total, %	100	✓			

Known issues

No known issues