Test Report for ScaleIO 1.0.1 Fuel Plugin

Revision history

Version	Revision date	Editor	Comment
1.0	23.01.2015	Irina Povolotskaya (ipovolotskaya@mirantis.com)	Created the template structure.
1.1	23.11.2015	Adrian Moreno (adrian.moreno@emc.com)	Added test report information
1.2	01.12.2015	Adrian Moreno (adrian.moreno@emc.com)	Updated test report information
1.3	04.12.2015	Adrian Moreno (adrian.moreno@emc.com)	Updated test report with validation remarks
1.4	21.12.2015	Adrian Moreno (adrian.moreno@emc.com)	Updated plugin version to 1.0.1

Document purpose

This document provides test run results for system tests of ScaleIO Fuel Plugin 1.0.1 on Mirantis OpenStack 6.1.

Test environment

The following lab configuration was used for the tests:

#VM	Description	CPU	RAM	HDD	OS
1	Fuel Master	2	4GB	1x100 GB	CentOS 6.5
3	Controller fuel slave nodes	4	8GB	1x200 GB	CentOS 6.5
1	Compute fuel slave nodes	4	8GB	1X200 GB	CentOS 6.5
1	Cinder fuel slave nodes	2	4GB	1x200 GB	CentOS 6.5

Test coverage and metrics

ScaleIO 1.0.1 Fuel plugin system testing process had a test coverage of 100%

Test results summary

The ScaleIO 1.0.1 plugin has the following system tests.

Test Case ID	Description
install_scaleio_plugin	Verify that ScaleIO Fuel Plugin can be installed into Fuel Master.
prepare_nodes	Verify all controller/compute/storage nodes are ready for ScaleIO installation.
create_env	Verify that an OpenStack environment created with ScaleIO Fuel Plugin has ScaleIO configuration parameters available, fill them, and deploy changes.
verify_block_storage	Verify that all cinder-volume services are identified as ScaleIO.
check_scaleio_cluster	Verify that the ScaleIO cluster state is Normal
create_volume	Verify that volumes are created in OpenStack via ScaleIO.
attach_volume	Verify that volumes are attached in OpenStack and ScaleIO reflects them as mapped.
verify_health_checks	Ensure that all applicable health checks pass.
scaleio_host_failover	Remove a ScaleIO MDM node and verify that ScaleIO is still operative

uninstall_plugin_with_dep loyed_env	Verify that ScaleIO Fuel Plugin cannot be uninstalled before all dependent environments are removed.
uninstall_plugin	Verify that ScaleIO Fuel Plugin can be successfully uninstalled.

System testing

Coverage of features

Parameter	Value
Total quantity of executed test cases	11
Total quantity of not executed test cases	0
Quantity of automated test cases	11
Quantity of not automated test cases	0

Detailed test run results

#	Test case ID	Passed	Failed	Skipped	Comment
1	install_scaleio_plugin	✓			
2	prepare_nodes	✓			
3	create_env	✓			
4	verify_block_storage	✓			
5	check_scaleio_cluster	✓			
6	create_volume	✓			
7	attach_volume	✓			
8	verify_health_checks	✓			
9	scaleio_host_failover	✓			

10	*uninstall_plugin_with_deployed_env*	✓			
11	*uninstall_plugin*	✓			
Total		11			
Total, %		100%			

Known issues
No known issues