Test Report for ScaleIO 1.0.0 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

Document purpose

This document provides test run results for system tests of ScaleIO Fuel Plugin 1.0.0 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 1.0.0 Fuel plugin system testing process had a test coverage of 100%

Test results summary

The ScaleIO 1.0.0 plugin has the following system tests.

Test Case ID	Description
build_scaleio_plugin	Verify that ScaleIO Fuel plugin builds successfully.
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_deployed_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	10
Total quantity of not executed test cases	0
Quantity of automated test cases	10
Quantity of not automated test cases	0

Detailed test run results

#	Test case ID	Passed	Failed	Skipped	Comment
1	build_scaleio_plugin	✓			
2	install_scaleio_plugin	✓			
3	prepare_nodes	✓			
4	create_env	✓			
5	verify_block_storage	✓			
6	check_scaleio_cluster	✓			
7	create_volume	✓			

8	*attach_volume*	✓			
9	*verify_health_checks*	✓			
10	*scaleio_host_failover*	✓			
11	*uninstall_plugin_with_de ployed_env*	✓			
12	*uninstall_plugin*	✓			
Total		12			
Total, %		100%			

Known issues
No known issues