Test Report for ScaleIO 1.0.1 Fuel Plugin

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# 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 |
| 1.5 | 23.12.2015 | Adrian Moreno (adrian.moreno@emc.com) | Added additional test cases |

# 

# 

# 

# 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\_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.* |
| *remove\_controller\_node* | *Remove a Controller node and verify that ScaleIO is still operative.* |
| *remove\_compute\_node* | *Remove a Compute node and verify that ScaleIO is still operative.* |

# System testing

### Coverage of features

|  |  |
| --- | --- |
| **Parameter** | **Value** |
| Total quantity of executed test cases | 13 |
| Total quantity of not executed test cases | 0 |
| Quantity of automated test cases | 13 |
| 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* | ✓ |  |  |  |
| 12 | *remove\_controller\_node* | ✓ |  |  |  |
| 13 | *remove\_compute\_node* | ✓ |  |  |  |
| Total |  | 13 |  |  |  |
| Total, % |  | 100% |  |  |  |

## Known issues

No known issues