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**TEST REPORT**

**for**

**ScaleIO Plugin 2.1-2.1.2-1**

**Mirantis OpenStack 9.0**

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# Revision history

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| --- | --- | --- | --- |
| **Version** | **Revision date** | **Editor** | **Comment** |
| 1.0 | 07.06.2016 | Alexey Morlang (alexey.morlang@emc.com) | Initial version |
| 1.1 | 20.08.2016 | Alexey Morlang (alexey.morlang@emc.com) | Plugin version 2.1.1 with Fuel9.0 support |
| 1.2 | 17.09.2016 | Alexey Morlang (alexey.morlang@emc.com) | Non hyper converged deployemt (version 2.1.2) |

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# Document purpose

This document provides test run results for *System testing* of *ScaleIO* Fuel Plugin *2.1-2.1.2-1* on Mirantis OpenStack 9*.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 node #1 (Controller)  
3) OpenStack node #2 (Controller or ScaleIO depending on TC)  
4) OpenStack node #3 (Controller or ScaleIO depending on TC)

5) OpenStack node #4 (Controller or Compute+ScaleIO depending on TC)

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-2.1-2.1.2-1.noarch.rpm | 4ac6809b6b0ab41f72b490cfd96b5bd4 |

# 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 | non\_hyper\_converged\_deploy | Verify that ScaleIO role can be deployed on separate nodes (non hyper converged environment) |
| 5 | uninstall\_plugin\_with\_deployed\_env | Ensure that plugin cannot be uninstalled if there is OpenStack environment deployed with enabled ScaleIO plugin. |
| 6 | uninstall\_plugin | Ensure that plugin can be uninstalled if there is no OpenStack environment deployed with enabled ScaleIO plugin. |
| 7 | upgrade\_Master\_node | Ensure that Fuel master node can be successfully upgraded and deployed cluster is operational after upgrade. |
| 8 | apply\_mu | Ensure that maintenance update does not affect running services and deployed cluster is operational after update. |
| 9 | update\_plugin\_to\_minor | Ensure that update doesn't affect running cluster, ensure that new features are available for new environments. |

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## System testing

### Coverage of features

|  |  |
| --- | --- |
| **Parameter** | **Value** |
| Total quantity of executed test cases | 9 |
| Total quantity of not executed test cases | 0 |
| Quantity of automated test cases | 0 |
| Quantity of not automated test cases | 9 |

### Detailed testrun results for MOS8.0

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **#** | **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 | non\_hyper\_converged\_deploy | ✓ |  |  |  |
| 5 | uninstall\_plugin\_with\_deployed\_env | ✓ |  |  |  |
| 6 | uninstall\_plugin | ✓ |  |  |  |
| 7 | upgrade\_Master\_node | ✓ |  |  |  |
| 8 | apply\_mu | ✓ |  |  |  |
| 9 | update\_plugin\_to\_minor | ✓ |  |  |  |
| Total | 9 |  |  |  |  |
| Total, % | 100 | ✓ |  |  |  |

### Detailed testrun results for MOS9.0

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **#** | **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 | non\_hyper\_converged\_deploy | ✓ |  |  |  |
| 5 | uninstall\_plugin\_with\_deployed\_env | ✓ |  |  |  |
| 6 | uninstall\_plugin | ✓ |  |  |  |
| 7 | upgrade\_Master\_node | ✓ |  |  |  |
| Total | 7 |  |  |  |  |
| Total, % | 100 | ✓ |  |  |  |

## Known issues

No known issues