OPNFV Release Note for the Arno SR1 release of OPNFV when using Fuel as a deployment tool

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Abstract

This document compiles the release notes for the Arno SR1 release of OPNFV when using Fuel as a deployment tool.

License

Version history

Date	Ver.	Author	Comment

2015-06-03	1.0.0	Jonas Bjurel	Arno SR0 release
2015-09-10	1.1.0	Jonas Bjurel	Arno SR1 release draft
2015-09-24	1.1.1	Jonas Bjurel	Arno SR1 release draft waiting for test results

Important notes

For the first OPNFV release (Arno), these notes introduce use of *OpenStack Fuel <https://wiki.openstack.org/wiki/Fuel>* for the deployment stage of the OPNFV continuous integration (CI) pipeline. The goal of the Arno release and this Fuel-based deployment process is to establish a foundational platform accelerating further development of the OPNFV infrastructure.

Carefully follow the installation-instructions and pay special attention to the pre-deploy script that needs to be run before deployment is started.

Summary

For Arno SR1, the typical use of Fuel as an OpenStack installer is supplemented with OPNFV unique components such as OpenDaylight version Helium as well as OPNFV-unique configurations.

This Arno artefact provides Fuel as the deployment stage tool in the OPNFV CI pipeline including:

- Documentation built by Jenkins - this document (release notes) - installation instructions - build-instructions
- The Arno Fuel installer image (.iso) built by Jenkins
- Automated deployment of Arno with running on bare metal or a nested hypervisor environment (KVM)
- Automated validation of the Arno deployment

Release Data

Project	genesis/bgs
Repo/tag	genesis/arno.2015.2.0
Release designation	Arno Base Service release 1 (SR1)
Release date	2015-09-28
Purpose of the delivery	OPNFV Arno Base SR1 release

Version change

Module version changes

This is the second tracked release of genesis/fuel. It is based on following upstream versions:

- Fuel 6.1.0
- OpenStack Juno release
- OpenDaylight Litium release

Document version changes

This is the second tracked version of the fuel installer for OPNFV. It comes with the following documentation:

- OPNFV Installation instructions for Arno with Fuel as deployment tool
- OPNFV Release Notes for Arno use of Fuel as deployment tool
- OPNFV Build instructions for Arno with Fuel as deployment tool

Reason for version

Feature additions

JIRA REFERENCE	SLOGAN
JIRA: FUEL-4	Baselining Fuel 6.0.1 for OPNFV
JIRA: FUEL-17	Integration of OpenDaylight

Bug corrections

JIRA TICKETS:

JIRA REFERENCE	SLOGAN
JIRA: BGS-57	The OpenDaylight Helium release is not fully functional and the resulting Fuel integration is not able to cope with the deficiancies. It is therefore not recommended to to enable this option. A functional integration of ODL version: Lithium is expected to be available in an upcomming service release.

Deliverables

Software deliverables

Fuel-based installer iso file <arno.2015.1.0.fuel.iso>

Documentation deliverables

- OPNFV Installation instructions for Arno release with the Fuel deployment tool - ver. 1.1.0
- OPNFV Build instructions for Arno release with the Fuel deployment tool - ver. 1.1.0
- OPNFV Release Note for Arno release with the Fuel deployment tool - ver. 1.1.1 (this document)

Known Limitations, Issues and Workarounds

System Limitations

Max number of blades: 1 Fuel master, 3 Controllers, 20 Compute blades

Min number of blades: 1 Fuel master, 1 Controller, 1 Compute blade

Storage: Ceph is the only supported storage configuration.

Max number of networks: 3800 (Needs special switch config.)

Known issues

JIRA TICKETS:

JIRA REFERENCE	SLOGAN

Workarounds

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Test Result

Arno release with the Fuel deployment tool has undergone QA test runs with the following results:

TEST-SUITE	Results:
Tempest test suite 1:	27 out of 105 testcases fails see note (1) and note (2)
Tempest test suite 2:	26 out of 100 testcases fails see note (1) and note (2)
Tempest test suite 3:	14 out of 106 testcases fails see note (1) and note (2)
Rally test suite suie 1:	10 out of 18 testcases fails see note (1) and note (3)
ODL test suite suie	7 out of 7 testcases fails see note (1) and note (4)
vPING	OK see note (1)

** - Note (1): Have been run with ODL controller active but not with integrated ODL networking VXLAN segmentation activated ** ** - Note (2): see https://wiki.opnfv.org/r1_tempest ** ** - Note (3): see https://wiki.opnfv.org/r1_rally_bench ** ** - Note (4): see https://wiki.opnfv.org/r1_odl_suite **

References

For more information on the OPNFV Arno release, please see http://wiki.opnfv.org/releases/arno.

Authors: Jonas Bjurel (Ericsson)

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Documentation tracking

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