OPNFV Release Notes for the Arno SR1 release of OPNFV when using Foreman as a deployment tool

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Abstract

This document provides the release notes for Arno SR1 release with the Foreman/QuickStack deployment toolchain.

License

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Version history

Date	Ver.	Author	Comment
2015-04-16	0.1.0	Tim Rozet	First draft

2015-06-02	0.1.1	Chris Price	Minor Edits
2015-06-03	0.1.2	Tim Rozet	Minor Edits
2015-09-10	0.2.0	Tim Rozet	Updated for SR1
2015-09-25	0.2.1	Randy Levensalor	Added Workaround for DHCP issue

Important notes

This is the OPNFV Arno SR1 release that implements the deploy stage of the OPNFV CI pipeline.

Carefully follow the installation-instructions which guide a user on how to deploy OPNFV using Foreman/QuickStack installer.

Summary

Arno release with the Foreman/QuickStack deployment toolchain will establish an OPNFV target system on a Pharos compliant lab infrastructure. The current definition of an OPNFV target system is and OpenStack Juno version combined with OpenDaylight version: Helium. The system is deployed with OpenStack High Availability (HA) for most OpenStack services. OpenDaylight is deployed in non-HA form as HA is not availble for Arno SR1 release. Ceph storage is used as Cinder backend, and is the only supported storage for Arno. Ceph is setup as 3 OSDs and 3 Monitors, one OSD+Mon per Controller node.

- Documentation is built by Jenkins

- .iso image is built by Jenkins

- Jenkins deploys an Arno release with the Foreman/QuickStack deployment toolchain baremetal, which includes 3 control+network nodes, and 2 compute nodes.

Release Data

Project	genesis
Repo/tag	genesis/arno.2015.2.0
Release designation	arno.2015.2.0
Release date	2015-09-23
Purpose of the delivery	OPNFV Arno SR1 release

Version change

Module version changes

This is the Service Release 1 version of the Arno release with the Foreman/QuickStack deployment toolchain. It is based on following upstream versions:

- OpenStack (Juno release)

- OpenDaylight Helium-SR3

- CentOS 7

Document version changes

This is the SR1 version of Arno release with the Foreman/QuickStack deployment toolchain. The following documentation is provided with this release:

- OPNFV Installation instructions for the Arno release with the Foreman/QuickStack deployment toolchain - ver. 0.2.0
- OPNFV Release Notes for the Arno release with the Foreman/QuickStack deployment toolchain - ver. 0.2.0 (this document)

Feature additions

JIRA REFERENCE	SLOGAN
JIRA: BGS-73	Changes Virtual deployments to only require 1 interface, and adds accesbility in China
JIRA: BGS-75	Adds ability to specify number of floating IPs
JIRA: APEX-3	clean now removes all VMs
JIRA: APEX-4	Adds ability to specify NICs to bridge to on the jumphost
JIRA: BGS-86	Adds ability to specify domain name for deployment
JIRA: APEX-1	Adds ability to specify VM resources such as disk size, memory, vcpus
JIRA: APEX-33	Adds ability to use single interface for baremetal installs

Bug corrections

JIRA TICKETS:

JIRA REFERENCE	SLOGAN
JIRA: BGS-65	Fixes external network bridge and increases neutron quota limits
JIRA: BGS-74	Fixes verification of vbox drivers
JIRA: BGS-59	Adds ODL Deployment stack docs to Foreman Guide
JIRA: BGS-60	Migrates github bgs_vagrant project into Genesis
JIRA: BGS-89	Fixes public allocation IP
JIRA: BGS-71	Adds check to ensure subnets are the minimum size required
JIRA: BGS-78	Fixes Foreman clean to not hang and now also removes libvirt
JIRA: APEX-7	Adds check to make sure 3 control nodes are set when HA is enabled
JIRA: BGS-68	Adds check to make sure baremetal nodes are powered off when deploying
JIRA: APEX-14	Fixes Vagrant base box to be opnfv
JIRA: APEX-8	Fixes puppet modules to come from the Genesis repo
JIRA: APEX-17	Fixes clean to kill vagrant processes correctly
JIRA: APEX-2	Removes default vagrant route from virtual nodes

JIRA: APEX-9	Fixes external network to be created by the services tenant
JIRA: APEX-10	Disables DHCP on external neutron network
JIRA: APEX-19	Adds check to ensure provided arg static_ip_range is correct
JIRA: APEX-12	Fixes horizon IP URL for non-HA deployments
JIRA: BGS-84	Set default route to public gateway

Deliverables

Software deliverables

Foreman/QuickStack@OPNFV .iso file deploy.sh - Automatically deploys Target OPNFV System to Bare Metal or VMs

Documentation deliverables

- OPNFV Installation instructions for the Arno release with the Foreman/QuickStack deployment toolchain - ver. 1.2.0
- OPNFV Release Notes for the Arno release with the Foreman/QuickStack deployment toolchain - ver. 1.2.0 (this document)

Known Limitations, Issues and Workarounds

System Limitations

Max number of blades: 1 Foreman/QuickStack master, 3 Controllers, 20 Compute blades

Min number of blades: 1 Foreman/QuickStack master, 1 Controller, 1 Compute blade

Storage: Ceph is the only supported storage configuration.

Min master requirements: At least 2048 MB of RAM

Known issues

JIRA TICKETS:

JIRA REFERENCE	SLOGAN
JIRA: APEX-13	Keystone Config: bind host is wrong for admin user
JIRA: APEX-38	Neutron fails to provide DHCP address to instance

Workarounds

- JIRA: APEX-38 - Neutron fails to provide DHCP address to instance

1. Find the controller that is running the DHCP service. ssh to oscontroller[1-3] and run the command below until the command returns a namespace that start with with "qdhcp".

   ```
   ip netns | grep qdhcp
   ```

2. Restart the neturon server and the neutron DHCP service.

```
systemctl restart neutron-server

systemctl restart neutron-dhcp-agent
```

3. Restart the interface on the VM or restart the VM.

Test Result

The Arno release with the Foreman/QuickStack deployment toolchain has undergone QA test runs with the following results:

https://wiki.opnfv.org/arno_sr1_result_page?rev=1443626728

References

For more information on the OPNFV Arno release, please see:

http://wiki.opnfv.org/release/arno

     Authors: Tim Rozet (trozet@redhat.com)
     Version: 0.2

Documentation tracking

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