



OPNFV Apex Release Notes

Release brahmaputra.2.0 (ebaedec)

OPNFV

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OPNFV RELEASE NOTES FOR THE BRAHMAPUTRA RELEASE OF OPNFV WHEN USING APEX AS A DEPLOYMENT TOOL

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1.1 Abstract

This document provides the release notes for Brahmaputra release with the Apex deployment toolchain.

1.2 License

All Apex and “common” entities are protected by the Apache License (<http://www.apache.org/licenses/>)

1.3 Version history

Date	Ver.	Author	Comment
2015-09-17	1.0.0	Dan Radez	Rewritten for RDO Manager update
2015-04-26	2.0.0	Tim Rozet	Brahmaputra SR2 update

1.4 Important notes

This is the OPNFV Brahmaputra SR2 release that implements the deploy stage of the OPNFV CI pipeline via Apex.

Apex is based on RDO Manager. More information at <http://rdoproject.org>

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

1.5 Summary

Brahmaputra release with the Apex 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 Liberty combined with OpenDaylight Beryllium. The system is deployed with OpenStack High Availability (HA) for most OpenStack services. OpenDaylight is deployed in non-HA form as HA support is not available for OpenDaylight at the time of the Brahmaputra release. Ceph storage is used as Cinder backend, and is the only supported storage for Brahmaputra. 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
- .rpm packages are built by Jenkins
- Jenkins deploys a Brahmaputra release with the Apex deployment toolchain baremetal, which includes 3 control+network nodes, and 2 compute nodes.

1.6 Release Data

Project	apex
Repo/tag	apex/brahmaputra.3.0
Release designation	brahmaputra.3.0
Release date	2016-04-28
Purpose of the delivery	OPNFV Brahmaputra SR2 release

1.6.1 Version change

Module version changes

This is the second service release version of the Brahmaputra with the Apex deployment toolchain. It is based on following upstream versions:

- OpenStack (Liberty release)
- OpenDaylight (Beryllium SR2 release)

- CentOS 7

Document version changes

This is the first tracked version of Brahmaputra release with the Apex deployment toolchain. The following documentation is provided with this release:

- OPNFV Installation instructions for the Brahmaputra release with the Apex deployment toolchain - ver. 1.0.0
- OPNFV Release Notes for the Brahmaputra release with the Apex deployment toolchain - ver. 1.0.0 (this document)

Feature additions

JIRA REFERENCE	SLOGAN
JIRA: APEX-118	SDNVPN scenario added
JIRA: APEX-89	Deploy Ceph OSDs on compute nodes
JIRA: APEX-47	Integrate Tacker as part of SFC Experimental Feature

Bug corrections

JIRA TICKETS:

JIRA REFERENCE	SLOGAN
JIRA: APEX-140	Fixes non-default libvirtd network subnet in virtual deployments
JIRA: APEX-139	Increases timeout for detecting Undercloud IP
JIRA: APEX-113	Missing neutron-ovs-agent in no SDN HA mode
JIRA: APEX-116	SFC compute node tables may not offset correctl
JIRA: APEX-115	DHCP metadata is disabled for isolated networks
JIRA: APEX-121	VM Storage deletion intermittently fails
JIRA: APEX-110	Deployment with no SDN no HA fails
JIRA: APEX-137	Added arping as dependency for ONOS deployments
JIRA: APEX-136	2 Network deployment fails
JIRA: APEX-114	OpenDaylight GUI is not available
JIRA: APEX-84	-flat option no longer working
JIRA: APEX-99	Syntax error when running opnfv-deploy

1.6.2 Deliverables

Software deliverables

Apex .iso file Apex overcloud .rpm (opnfv-apex) Apex undercloud .rpm (opnfv-apex-undercloud) Apex common .rpm (opnfv-apex-common) build.sh - Builds the above artifacts opnfv-deploy - Automatically deploys Target OPNFV System opnfv-clean - Automatically resets a Target OPNFV Deployment

Documentation deliverables

- OPNFV Installation instructions for the Brahmaputra release with the Apex deployment toolchain - ver. 1.0.0
- OPNFV Release Notes for the Brahmaputra SR2 release with the Apex deployment toolchain - ver. 2.0.0 (this document)

1.7 Known Limitations, Issues and Workarounds

1.7.1 System Limitations

Max number of blades: 1 Apex undercloud, 3 Controllers, 20 Compute blades

Min number of blades: 1 Apex undercloud, 1 Controller, 1 Compute blade

Storage: Ceph is the only supported storage configuration.

Min master requirements: At least 16GB of RAM

1.7.2 Known issues

JIRA TICKETS:

JIRA REFERENCE	SLOGAN
JIRA: APEX-27	OpenContrail Support
JIRA: APEX-30	Support for VLAN tagged network deployment architecture
JIRA: APEX-100	DNS1 and DNS2 not handled in nic bridging

1.7.3 Workarounds

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1.8 Test Result

The Brahmaputra release with the Apex deployment toolchain has undergone QA test runs with the following results:

TEST-SUITE	Results:
-	-

1.9 References

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

<http://wiki.opnfv.org/releases/brahmaputra>

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Version 2.0.0