

NeutronNorthbound: Carbon Release Plan

Introduction

Release Deliverables

Name	Description
org.opendaylight.neutron.neutron-spi	Internal bundle implementing neutron data objects
org.opendaylight.neutron.transcriber	Internal bundle implementing copying data from northbound to subscribers
org.opendaylight.neutron.northbound-api	Bundle implementing Northbound API
org.opendaylight.neutron.model	Bundle holding the Neutron yang models
org.opendaylight.neutron.neutron-logger	Bundle that logs datatree-changes on Neutron yang models
org.opendaylight.neutron.utils (this name is tentative. TBD)	Bundle that implementing common utilities
org.opendaylight.neutron.hostconfig.ovsdb (this name is tentative. TBD)	Bundle implementing hostconfig with ovsdb
org.opendaylight.neutron.hostconfig.vpp (this name is tentative. TBD)	Bundle implementing hostconfig with vpp

Featurewise list:

Name	Description
resource status report	ODL reports status update of resource to neutron, nteworking-odl
QoS API update	update yang models for QoS API
TRUNK API	TRUNK API(aka vlan-aware-vm api)
yang model: project-id	add project-id for tenant-id. add compatibility logic for future deprecation of tenant-id.
yang mode update for Neutron change	various minor yang model update to catch up to Neutron change
utility libraries for hostconfig	various helper libraries to support hostconfig that will be utilized by openstack service provider.

Release Milestones

- Offset: 1

Milestone	Offset 1 Date	Deliverables		
M1	10/27/2016	Name	Status	Description
		Intent to participate	Done	Intent to participate in Boron Simultaneous Release
		Project Lead elected and project contact	Done	Project/Test Lead election
		documentation/test contact	Done	select document/test contact
		Release Plan	Done	Candidate Release Plan
M2	12/1/2016	Name	Status	Description
		Release Plan	Done	Final Release Plan
		System Test Waiver	on-going	

M3	1/19/2017	<table><tr><th>Name</th><th>Status</th><th>Description</th></tr><tr><td>Feature Freeze</td><td>Done</td><td></td></tr><tr><td>Candidate Stable Distribution</td><td></td><td></td></tr><tr><td>Extension Distribution</td><td></td><td></td></tr></table>	Name	Status	Description	Feature Freeze	Done		Candidate Stable Distribution			Extension Distribution		
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Feature Freeze	Done													
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Extension Distribution														
M4	2/16/2017	<table><tr><th>Name</th><th>Description</th></tr><tr><td>API Freeze</td><td>Done</td></tr><tr><td>Candidate Stable Distribution</td><td>A running candidate of what is attempting to be the stable distribution to be blessed by the TSC.</td></tr><tr><td>Extension Distribution</td><td>A running candidate of what is attempting to be the extension distribution.</td></tr></table>	Name	Description	API Freeze	Done	Candidate Stable Distribution	A running candidate of what is attempting to be the stable distribution to be blessed by the TSC.	Extension Distribution	A running candidate of what is attempting to be the extension distribution.				
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M5	3/16/2017	<table><tr><th>Name</th><th>Description</th></tr><tr><td>Code Freeze</td><td>Done</td></tr><tr><td>Candidate Stable Distribution</td><td>A running candidate of what is attempting to be the stable distribution to be blessed by the TSC.</td></tr><tr><td>Extension Distribution</td><td>A running candidate of what is attempting to be the extension distribution.</td></tr></table>	Name	Description	Code Freeze	Done	Candidate Stable Distribution	A running candidate of what is attempting to be the stable distribution to be blessed by the TSC.	Extension Distribution	A running candidate of what is attempting to be the extension distribution.				
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RC0	4/13/2017	<table><tr><th>Name</th><th>Description</th></tr><tr><td>Candidate Stable Distribution</td><td>A running candidate of what is attempting to be the stable distribution to be blessed by the TSC.</td></tr><tr><td>Extension Distribution</td><td>A running candidate of what is attempting to be the extension distribution.</td></tr></table>	Name	Description	Candidate Stable Distribution	A running candidate of what is attempting to be the stable distribution to be blessed by the TSC.	Extension Distribution	A running candidate of what is attempting to be the extension distribution.						
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RC1	4/20/2017	<table><tr><th>Name</th><th>Description</th></tr><tr><td>Candidate Stable Distribution</td><td>A running candidate of what is attempting to be the stable distribution to be blessed by the TSC.</td></tr><tr><td>Extension Distribution</td><td>A running candidate of what is attempting to be the extension distribution.</td></tr></table>	Name	Description	Candidate Stable Distribution	A running candidate of what is attempting to be the stable distribution to be blessed by the TSC.	Extension Distribution	A running candidate of what is attempting to be the extension distribution.						
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RC2	4/27/2017	<table><tr><th>Name</th><th>Description</th></tr><tr><td>Release Review</td><td>Release Review Description</td></tr><tr><td>Candidate Stable Distribution</td><td>A running candidate of what is attempting to be the stable distribution to be blessed by the TSC.</td></tr><tr><td>Extension Distribution</td><td>A running candidate of what is attempting to be the extension distribution.</td></tr></table>	Name	Description	Release Review	Release Review Description	Candidate Stable Distribution	A running candidate of what is attempting to be the stable distribution to be blessed by the TSC.	Extension Distribution	A running candidate of what is attempting to be the extension distribution.				
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Formal Release	5/11/2016	<table><tr><th>Name</th><th>Description</th></tr><tr><td>Deliverable Name</td><td>Deliverable Description</td></tr></table>	Name	Description	Deliverable Name	Deliverable Description								
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Externally Consumable APIs

Short Name	Description	Type (at M2)	Type (at M3)	Type (release)	Contract	Supporting Code
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TBD	Northbound	Interface to OpenStack networking-odl			Openstack Networking Ref v2 Openstack Networking API v2.0 extensions	org.opendaylight.neutron.northbound-api
MD-SAL yang models: To be updated						
MD-SAL Networks Model	YANG model for Neutron Networks	Provisional	Provisional	Provisional	neutron-networks.yang	org.opendaylight.neutron.model
MD-SAL Subnet Model	YANG model for Neutron Subnets	Provisional	Provisional	Provisional	neutron-subnets.yang	org.opendaylight.neutron.model
MD-SAL Ports Model	YANG model for Neutron Ports	Provisional	Provisional	Provisional	neutron-ports.yang	org.opendaylight.neutron.model
MD-SAL L3 Model	YANG model for Neutron Routers and Floating IPs	Provisional	Provisional	Provisional	neutron-l3.yang	org.opendaylight.neutron.model
MD-SAL FWaaS Model	YANG model for Neutron Firewalls, Firewall Policies, Firewall Rules	Provisional	Provisional	Provisional	neutron-fwaas.yang	org.opendaylight.neutron.model
MD-SAL LBaaS Model	YANG model for Neutron Load Balancer, Load Balancer Health Monitor, Load Balancer Listener, Load Balancer Pool, and Load Balancer Pool Member	Provisional	Provisional	Provisional	neutron-lbaas.yang	org.opendaylight.neutron.model
MD-SAL Metering Model	YANG model for Neutron Metering Label and Metering Label Rule	Provisional	Provisional	Provisional	neutron-metering.yang	org.opendaylight.neutron.model
MD-SAL Security Group/Rule Model	YANG model for Neutron Security Group and Security Rule	Provisional	Provisional	Provisional	neutron-secgroups.yang	org.opendaylight.neutron.model
MD-SAL VPNaaS Model	YANG model for Neutron VPN IKE Policy, VPN IPSEC Policy, VPN IPSEC Site Connection, VPN Service	Provisional	Provisional	Provisional	neutron-vpnaas.yang	org.opendaylight.neutron.model
MD-SAL L2-gateway Model	YANG model for Neutron L2 Gateway, L2 Gateway Connection	Provisional	Provisional	Provisional	neutron-l2gateways.yang	org.opendaylight.neutron.model
MD-SAL BGPVPN Model	YANG model for Neutron BGPVPN	Provisional	Provisional	Provisional	neutron-bgpvpn.yang	org.opendaylight.neutron.model
Neutron HostConfig Model	YANG model for Neutron Hostconfig	Provisional	Provisional	Provisional	neutron-hostconfig.yang	org.opendaylight.neutron.model
Neutron QoS Model	YANG model for Neutron QoS API	Provisional	Provisional	Provisional	neutron-qos.yang	org.opendaylight.neutron.model
Neutron SFC Model	YANG model for Neutron SFC API (networking-sfc)	Provisional	Provisional	Provisional	neutron-sfc.yang	org.opendaylight.neutron.model
Neutron extension discovery Model	YANG model for Neutron extension discovery	Provisional	Provisional	Provisional	neutron-extension.yang	org.opendaylight.neutron.model
Neutron TRUNK API Model	YANG model for Neutron TRUNK API	N/A	N/A	Provisional (planned)	neutron-trunk.yang (planned)	org.opendaylight.neutron.model
Neutron yangmodel update	various update of neutron yang model	N/A	N/A	Provisional (planned)	neutron-*.yang(planned)	org.opendaylight.neutron.model
Neutron utils	helper functions	N/A	N/A	tentative (planned)		org.opendaylight.neutron.utils (planned)
Neutron hostconfig ovsdb	helper functions for hostconfig with ovsdb	N/A	N/A	tentative (planned)		org.opendaylight.neutron.hostconfig.ovsdb (planned)
Neutron hostconfig vpp	helper functions for hostconfig with vpp	N/A	N/A	tentative (planned)		org.opendaylight.neutron.hostconfig.vpp (planned)

Expected Dependencies on Other Projects

- Depends on all other projects in Boron

Neutron northbound project depends on the projects, odlparent, controller, md-sal, yangtools. But there is no new dependencies in Carbon.

Providing Project	Description
controller	basic controller features
mdsal	mdsal features
odlparent	odlparent values
yangtools	yangtools for compiling yang
ovsdb(and netvirt?)	ovsdb network topology
netconf	odl-netconf-clustered-topology

Expected Incompatibilities with Other Projects

new member as project id for tenant id. In Carbon cycle, tenant-id will be kept for compatibility. In Nitrogen cycle or later, project-id may be deprecated.

https://wiki.opendaylight.org/view/Weather#Neutron_Northbound:_rename_tenant-id_to_project-id

Top-level or User-facing Karaf Features

- odl-neutron-service (Top Level, User Facing)
 - This feature provides the complete neutron northbound service

Planned Documentation

- User/Operator Guide for odl-neutron-service feature
- Developer Guides for odl-neutron-service features

Compatibility with Previous Releases

- None intrinsic to distribution, projects delivered may have their own.

Themes and Priorities

- carry over from Boron cycles
 - neutron HA support
 - support port binding well(hostconfig)
- status report from ODL to networking-odl
- TRUNK API
- FWaaS v2 API
- QoS API update
- various model update to catch up neutron change

Requests from Other Projects

The following projects requested dependency on Neutron Northbound

- NetVirt

The followings are copied from Boron cycles.

- GBP
- Netvirt
- VPNService
- VTN

Test Tools Requirements

- NN will be requesting a System Test exemption
- NN system test cases are already included in the integration/test project tests that run as part of all jenkins jobs.

Other