Southbound plugin to the OpenContrail platform

Welcome to Southbound plugin to the OpenContrail platform

Introduction

This project will provide the integration/interworking between the OpenDaylight controller and the OpenContrail platform. This combined open-source solution will seamlessly enable OpenContrail platform capabilities within the OpenDaylight project. The southbound plugin to the OpenContrail platform will enable OpenDaylight to utilize the OpenContrail platform's networking capabilities.

Please see Project Proposal page as below:

- Project Proposal

Getting Started

The southbound plugin to the OpenContrail platform will enable OpenDaylight to utilize the OpenContrail platform's networking capabilities such as:

- Cloud Networking – Dynamic and reliable management of virtual overlay networks with scalability important for Private clouds for Enterprises or Service Providers, Infrastructure as a Service (IaaS) and Virtual Private Clouds (VPCs) for Cloud Service Providers.
- Network Function Virtualization (NFV) in Service Provider Network and service chaining for enterprise deployments – Streamlined service chaining utilizing L3 overlay solution.

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High Level Design

The neutron calls to NeutronAPIService within OpenDaylight will be intercepted by southbound plugin, which will be developed as one of the standard OpenDaylight southbound plugins. The plugin in turn will use Contrail API-lib methods to make REST calls to OpenContrail for networking capabilities.

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Features supported

M3 Base code release

This Release of Southbound plugin to the OpenContrail Platform leverages OpenDaylight's neutron APIs to manage:

- Virtual Networks
- Subnets
- Ports

M4 Base code release

This Release of Southbound plugin to the OpenContrail Platform leverages OpenDaylight's neutron APIs to manage:

- Multiple networks

Project Facts

Project Creation Date: January 23rd, 2014

Lifecycle State: Archived

Primary Contact: Rudra Rugge (rrugge@juniper.net)

Project Lead: Ashish Ranjan (aranjan@juniper.net)

Committers:

- Rudra Rugge (rrugge@juniper.net) (to be added)

IRC: freenode.net: NA

Mailing List: plugin2oc-dev@lists.opendaylight.org
Archives: mailing list archives

Meetings: See Community Meetings

Repository: git clone https://git.opendaylight.org/gerrit/plugin2oc

Jenkins: jenkins silo

Gerrit Patches: code patches /reviews

Bugs:

- open bugs

- Router
- Floating IP

M5 Base code release

This Release of Southbound plugin to the OpenContrail Platform leverages OpenDaylight's neutron APIs to manage:

- Security Group
- Security Group Rules

Environment Setup

Following is the end-to-end environment setup:

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- Environment Setup details the procedure for setting up the test environment.

Documentation

Please refer to User and Developer guide.

- User Guide
- Developer Guide

Clone the plugin2oc repository

```
git clone https://git.opendaylight.org/gerrit/plugin2oc.git
or
git clone ssh://<username>@git.opendaylight.org:29418/plugin2oc
```

People

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- Rudra Rugge (rrugge@juniper.net)
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See also

- Helium Project Release Plan
- Lithium Project Release Plan
- Environment Setup
- Release Review
- Release Notes

Requirements

Release Planning

Release Notes