SONiC

Open Stack Integration

Contents

[Abstract 2](#_Toc459913667)

[Project Description 2](#_Toc459913668)

[Development Process 2](#_Toc459913669)

[Deliverables 2](#_Toc459913670)

[Effort and Resources 2](#_Toc459913671)

[Committers and Contributors: 2](#_Toc459913672)

[Proposed Timeline and Deadlines 2](#_Toc459913673)

Revision History

|  |  |  |
| --- | --- | --- |
| Date | Author | Change |
|  |  |  |

# 

# Abstract

The purpose of this feature is to provide support for Open Stack within SONiC project. Open Stack greatly simplifies setup and configuration of a networking equipment in a datacenter and would make it easier to deploy the SONiC enabled switches.

# Project Description

* At the end of this project, through the Open Stack UI, the customer will be able to manage and deploy equipment.

# Development Process

* Assess plugin mythologies
  + OVSDB integration
  + ML2 plugin
  + Other – fabric level
* Overlay/Underlay networks
  + Support both Flat, VLAN
  + Look at a GRE or VXLAN overlay
* This work will be delivered over three phases. The first phase will handle the investigation of Open Stack and the Neutron plugin. At the same time as the investigation on Open Stack is occurring, investigation into the SAI overlay support will be validated and based on SAI availability, then an overlay may be supported. Finally, the plugin will be implemented and delivered.
* Phase 1 will select the plugin method
* Phase 2 will focus on implementing any required infrastructure (SAI/Object models)
* Phase 3 will be used to finalize the implementation and provide testing

# Deliverables

* Deliverables
* Documentation:
* Code/App
* Test plan
* Deployment steps/ How to demo the feature

# Effort and Resources

|  |  |  |
| --- | --- | --- |
|  | *Effort estimation* | *Resources Commitment* |
| *Development* | 4 months |  |
| *Test* | 1 month |  |
| *Documentation* | 2 weeks |  |

# Committers and Contributors:

* *Dell – Cliff Wichmann*

# Proposed Timeline and Deadlines

Starting Sept 2016, phase 1 completed in Oct 14 and implementation will complete approximately Jan 2017.