Technical Advisory Council Meeting

February 28, 2018
Agenda

› Meeting tools
› TAC Chair & Governing Board representative
› Technical communities’ goals
› OpenContrail entry into the LFN
› TAC Face-to-Face at ONS
### Platinum Representatives

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### Project Representatives

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New TAC meeting tools

› LFN TAC wiki page: https://wiki.lfnetworking.org/display/LN/Technical+Advisory+Council

› IRC Channel connected with MeetBot: #lfn-meeting

› Mailing list: https://lists.lfnetworking.org/g/TAC/join
Roles & Responsibilities of GB Representative vs. TAC Chair

› GB Representative
  › Voice of the LFN technical communities to the Governing Board (GB)
  › Will be a voting representative in the LFN GB

› TAC Chair
  › Responsible for running TAC meetings (with the help of LF staff members)
  › Leading the discussion on defining internal processes (e.g. work groups, setting priorities, etc.)
Technical communities’ goals

› At the March 26th GB meeting, there is an agenda topic to discuss technical communities’ 2018 goals & priorities (fd.io, ODL, ONAP, and OPNFV)

› Suggest setting a deadline of March 9\textsuperscript{th} for finalizing these discussions within each community and review communities’ goals & priorities at the next TAC meeting on March 14\textsuperscript{th}

› When possible, it would be helpful to include if there is a way to measure if a goal has been achieved
Tungsten Fabric SDN Community Overview
Tungsten Fabric

- Tungsten Fabric seeks to become a ubiquitous global network and security fabric that is agnostic and extends across all cloud infrastructure.
- Key goal to provide easy-to-use, scalable, secure, and cloud-grade SDN stack
- Single point of control, visibility, and management globally for all networks and network security.
- We are looking to evolve the project into the most broadly adopted and highest quality SDN overlay technology available.
USE CASE: MULTI-CLOUD AND CONTAINERS

Integrate Kubernetes, OpenStack, Public Clouds and Bare Metal

MANAGEMENT

Multi-vendor Orchestration & Management

SERVICE OVERLAY

Private Cloud
- Legacy (VMware, BMS) Interconnect
- VMs & Containers
- Multi-DC Interconnect
- Hybrid Cloud (Public Cloud Interconnect)

Public Cloud
- SaaS Clouds
- BMaaS
- IaaS (VMs & Containers)

Telco Cloud
- NFV & Service Chaining (Mobility, CDNaaS)
- Connected Cars / IOT
- SDWAN

UNDERLAY

Tungsten Fabric

VLAN
- VMware VMs
- Bare Metal
- Legacy (VLAN-based, VMware)
- Multi-site DC / POP Private Clouds (VMs, BMS, Containers)
- Public Cloud
- Customer Branch

Automate, Analyze and Secure Across Multiple Cloud Environments
FEATURES

Routing & Switching
Network Services
Load Balancing
Security & Policies
Performance & Scale
Gateway Services
Rich Analytics
Service Chaining
HA & Upgrades
APIs/Orchestrations
- Clusters have gateway (WAN)
- Need to connect legacy metal nodes behind switches
- Clusters are federated to extend virtual networks
• 2013-Today: More 300 person years of work
• 200-300 developer contributions
• Languages: C++, Python, Node, Go
• Apache 2.0 license
• GitHub repositories
• Gerrit review processes
• Launchpad bug tracking and blueprints
• Technology Stack: Cassandra, Kafka, HAproxy, Docker, Keystone
COMMUNITY MEMBERS
Face-to-Face meeting during ONS

- Propose to have a face-to-face meeting at 8-9am Pacific Time on March 27\textsuperscript{th} (Day 2 of the Developer Forum)

- Potential topics suggested
  - Brainstorm on how projects can collaborate with each other
  - Tools harmonization opportunities (e.g. for docs, testing, CI/CD, etc.)
  - Release timing/alignment
  - Technical community events