Introducing Open Platform for NFV

Please direct any questions or comments to info@opnfv.org

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OPNFV is a carrier-grade, integrated, open source reference platform for NFV
OPNFV Project Goals

- Develop an integrated and tested open source platform that can be used to build NFV functionality, accelerating the introduction of new products and services.
- Include participation of leading end users to validate OPNFV meets the needs of user community.
- Contribute to and participate in relevant open source projects that will be leveraged in the OPNFV platform; ensure consistency, performance and interoperability among open source components.
- Establish an ecosystem for NFV solutions based on open standards and software.
- Promote OPNFV as the preferred open reference platform.
OPNFV Initial Scope

To provide

• NFV Infrastructure (NFVI)
• Virtualized Infrastructure Management (VIM)
• APIs to other NFV elements

which together form the basic infrastructure required for Virtualized Network Functions (VNFs) and Management and Network Orchestration (MANO) components.
OPNFV Architecture Framework
Upstream OSS Projects Integration

- Work directly with upstream standards bodies (ETSI and others)
- Work directly with upstream open source projects (OpenDaylight, OpenStack, KVM and Xen, and many others)
- Leverage existing codebases
- Integrate existing open source components
- Identify gaps to create new code
- Provide a point of integration, testing and performance optimization

**Goal:** Best reference platform for carrier-grade NFV implementations
OPNFV Projects & lifecycle

- Requirement Projects
- Integration & Verification
- Collaborative Dev Projects
- Doc. Projects
## OPNFV Projects -- [https://wiki.opnfv.org/](https://wiki.opnfv.org/)

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Doctor Project on Fault Management

https://wiki.opnfv.org/doctor

Fig. 1: Steps in Fault Management
OpenStack Based VNF Forwarding Graph Project
https://wiki.opnfv.org/requirements_projects/openstack_based_vnf_forwarding_graph

- Service Chaining based on ETSI VNF Forwarding Graph architecture
- Leveraging OpenFlow Service Chaining
- Selected features
  - VNF Instance and VNF Template registration (on-boarding) and management
  - Intent based specification of a tenant’s flow and its associated service function requirement/intention
  - OpenStack based and OpenFlow compliant VNFFG setup
Release 1 “Arno” – April 23 2015

- OS Juno
- ODL Helium (Neutron ML2-OVSDB proxy)
- Ceph orchestrated by Cinder
- OVS
- CentOS 7.0 (if possible) or Ubuntu 14.04
- Automated deployment, testing

- [wiki.opnfv.org/releases](http://wiki.opnfv.org/releases)
Thank You…

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