Agenda

- Testing ecosystem
- Test coverage
- Release-B Test plans
OPNFV Test Ecosystem

Test Community (Test and Performance Sub-Group)

- Test Dashboard
- KPIs
- Functest (OPNFV Platform Functionality – VNFI & VIM)
- Yardstick (Infrastructure Verification)
- Test Framework
- VSPERF (Vswitch performance)
- Test Tools
- Bottlenecks (System limits)
- CPERF (Controller Performance)
- Policy Test (Network Policies)
- STORPERF (Storage Performance)
- Dovetail (OPNFV Compliance & Certification)
- Test Dashboard
- KPIs

Test Infrastructure (Pharos)

- Development Resources - DEV Labs
- Integration Testing for Rls B – Test Labs
- Continuous Integration and Deployment (Octopus) - CI Labs
- Linux Foundation Lab
- Community Labs
OPNFV Test Activities

Tools and Process

- Definitions & Test Coverage per domain/component
- Traffic Profiles
- Dashboard

Testing coordination

- Release B test requests
- Test Project Dependencies

Resource Planning

- Test Lab Requirements
- Test Project Lab Resources

Weekly Test and Performance Meetings [https://wiki.opnfv.org/meetings/test](https://wiki.opnfv.org/meetings/test)
Test coverage – Domains and Components

Domains
- System Level
- Performance
- Robustness
- Security
- OAM

Components
- OpenStack
- ODL
- KVM
- OVS
- Ceph
- VNF
- NIC
- Memory
- CPU
- Storage

From Testing wiki: Test Coverage
Test Coverage – ETSI-NFV Domains

Virtualized Network Functions (VNFs)

Virtualized Network Functions (VNFs)

 NFV Infrastructure (NFVI)

Virtualization Layer

Hardware Resources

From ETSI-NFV: GS NFV 002
Test Coverage – ETSI-NFV Domains

Virtualized Network Functions (VNFs)

NFV Infrastructure (NFVI)

Hardware Resources

Note: Interfaces defined by ETSI-NFV are not shown in the diagram
Release B

- Lots of feature projects
- More test projects
- More installers
- More configurations

3 levels of dependencies
- installers
- labs
- feature projects

More challenging!
Release B: Ensure consistency

- Lots of configurations, installers,…
  - CI++: the test suite must be automated and run on as many labs as possible

- Lots of test projects
  - Test collection API to collect:
    - the test cases
    - the test results

- Lots of Feature projects
  - Companion test projects e.g. VPN/Yardstick, Doctor/Functest
Test Deliverables for Release B

- An centralized view of all the test cases
- A user guide & and installation guide per Test project
- A developer Guide for OPNFV frameworks
- A Testing dashboard