Yardstick - Infrastructure Verification

Project Description

The goal of the Yardstick Project is to verify the infrastructure compliance when running VNF applications. NFV Use Cases described in ETSI GS NFV 001 show a large variety of applications, each defining specific requirements and complex configuration on the underlying infrastructure and test tools. The Yardstick concept decomposes typical VNF work-load performance metrics into a number of characteristics/performance vectors, which each of them can be represented by distinct test-cases.

The project's scope is to develop a test framework, test cases and test stimuli. The methodology used by the Project, to verify the infrastructure form the perspective of a VNF, shall be aligned with ETSI TST001.

Project Scope

The following are in the project scope:

- Decompose VNF work-load performance metrics into a number of characteristics/performance vectors, identifying and categorizing the metrics related to characterization of the infrastructure, develop test case examples to realize the metrics;
- Enable verification of more complex test cases by developing functionality to run parallel testing, inject fault, test multiple topologies, test scenarios;
- Methodology for verifying infrastructure from the perspective of a VNF aligned with ETSI TST 001.

Updates

Recently Updated

Yardstick People
May 15, 2019 • updated by Rex Lee • view change
vIMS Charaterization using NSB
Apr 18, 2019 • updated by Tarek Reyad • view change
cMTS Charaterization using NSB
Apr 18, 2019 • updated by Tarek Reyad • view change
viPSec Charaterization using NSB
Apr 09, 2019 • updated by Tarek Reyad
Release Gambia
Apr 05, 2019 • updated by Md Safiyat Reza • view change
viPSecOverview.png
Mar 20, 2019 • attached by Tarek Reyad
viPSecNodeStats.png
Mar 20, 2019 • attached by Tarek Reyad

Project Links

- Yardstick Dashboard (opnfv/opnfv)
- Yardstick Reporting
- Gerrit: https://gerrit.opnfv.org/gerrit/
- Git: https://git.opnfv.org/cgit/yardstick/
- Jira:
  - https://jira.opnfv.org/secure/BrowseProjects.jspa
  - Yardstick Kanban board
  - Yardstick Jira Dashboard
- Jenkins: https://build.opnfv.org/ci/view/yardstick/
- Yardstick PTL Election

Key Facts

- Meetings:
  - Tuesday UTC 09h30 - 10h00 since Oct 30th (Asia and Europe Slot)
  - IRC & zoom.us: https://zoom.us/j/5014627785
  - Meeting logs
- IRC channel:
  - #opnfv-yardstick
- People
- Contact Yardstick

Documentation

HTML
- Yardstick User Guide (Fraser)
- Yardstick Code Documentation
- Yardstick Release Notes (Fraser)
- Yardstick Test Results Documentation

Releases

Q&A

Useful Links

- Etherpads:
  - Porting Yardstick to Python 3
  - Yardstick new feature demo
  - Project governance, Mobility Traffic Profile
  - Yardstick and HA
  - Yardstick folder structure
  - Yardstick framework architecture
• Yardstick test results visualization
• Yardstick roadmap
• Yardstick Developer guide

• Extra Material
  • Presentations, Demos & Videos