

ViNePerf Kali Release Planning

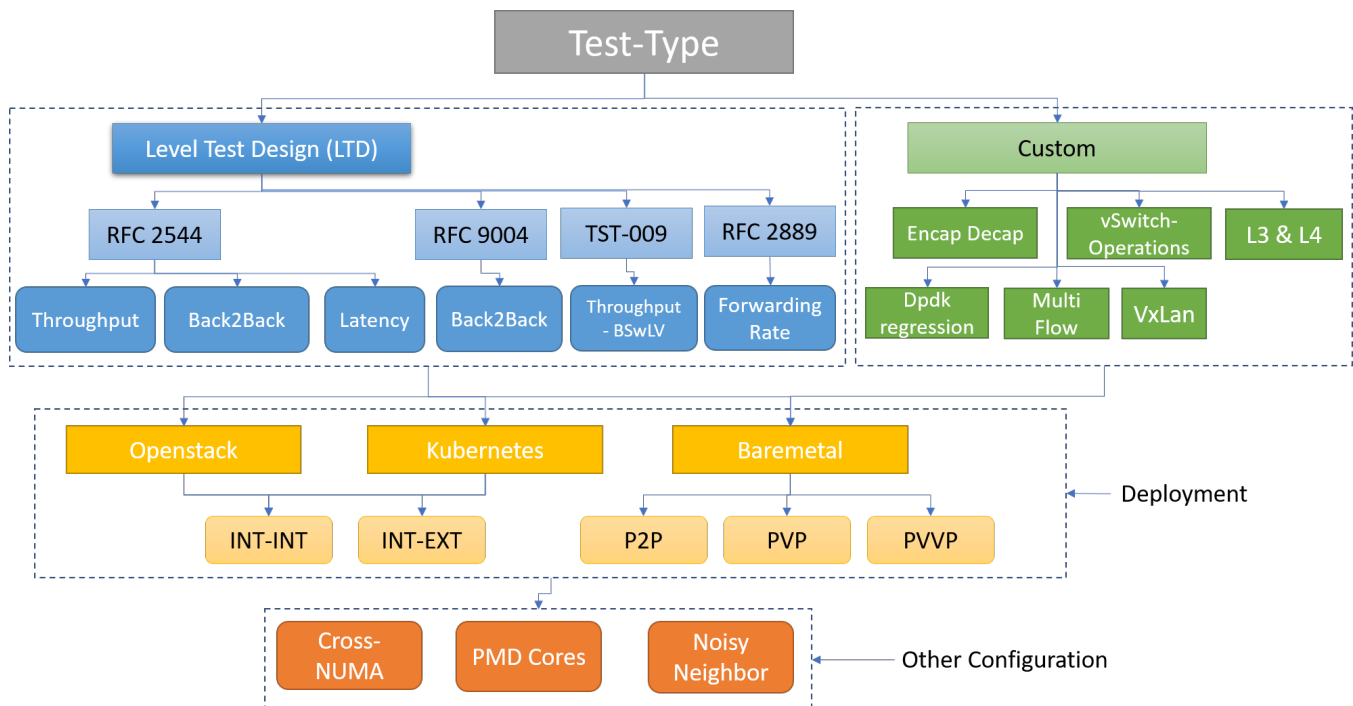
- [Overview](#)
- [Scope](#)
 - [Requirements](#)
- [Release Artifacts](#)
- [Architecture](#)
 - [High level architecture diagram](#)
 - [Internal Dependencies](#)
 - [External Dependencies](#)
- [Test and Verification](#)
- [Risks](#)

Overview

Project Name	Enter the name of the project
Target Release Name	Kali
Project Lifecycle State	Incubation

Scope

ViNePerf provides an automated test-framework and comprehensive test suite based on industry standards for measuring the data-plane performance in **different cloud environments**. Dataplane in a cloud includes different switching technologies with **physical** and **virtual** network interfaces, and carries traffic to and from workloads running as **virtual-machines and containers**. The architecture of ViNePerf is agnostic of cloud-type, switching-technology, and traffic-generator. ViNePerf allows user to **customize the test-cases**, network-topology, workload-deployment, hardware-configuration, and the versions of the software components such vswitch, vnf, cnf, cni, etc. ViNePerf can be used both **pre-deployment and post-deployment** of the cloud. Though ViNePerf architecture is designed for evaluation of dataplane of clouds in **Lab environments**, it can also be in **production clouds**. ViNePerf methods follows standards developed by the **IETF** and **ETSI NFV**, and contribute to the development of new standards.



Requirements

1. Kubernetes - Int-Int Testing: [VINEPERF-638](#)
 - a. Pod-Pod Communication: [VINEPERF-643](#)
2. Kubernetes - Int-Ext Testing: [VINEPERF-639](#)

- a. Multipod Testing: [VINEPERF-641](#)
- b. Pod-Resource Isolation Testing: [VINEPERF-642](#)
- 3. Feature Enhancement: [VINEPERF-640](#)
 - a. Reporting OS/K8S: [VINEPERF-644](#)
 - b. Multiple Latest OS-Version: [VINEPERF-645](#)
 - c. Trafficgen Pods: [VINEPERF-646](#)

Release Artifacts

Source Code, Documentation, and Release Notes

Name	Description	Format (Container, Compressed File, etc.)
Int-Int Testing	Automated Testcases	Yaml Files, Python Files
Int-Ext Testing	Automated Testcases	Yaml Files, Python Files
Feature Enhancement	Different Features	Python Files, Jinja Templates, Container Images, Dockerfile yaml files

Architecture

High level architecture diagram

<https://wiki.anuket.io/x/vgFD> and see Scope above.

Internal Dependencies

SampleVNF/Prox, if incorporated as a traffic gen during this release. (Xtesting and testdb pseudo-projects)

External Dependencies

OpenStack, K8s and CNI plugins like MULTUS etc. ETSI NFV TST009, IETF BMWG.

Test and Verification

As a test project, evaluation of the project is relatively continuous. RC-related evaluations will be conducted using RI-compliant systems and pre-compliant systems.

Risks

List any risks and a plan to mitigate each risk.

Risk Description	Mitigation Plan
small number of developers	Anuket-level developer recruiting and Intern projects