

NFVbench

The NFVbench project develops a toolkit that allows developers, integrators, testers and customers to measure and assess the L2/L3 forwarding performance of an NFV-infrastructure solution stack (i.e. OPNFV scenario) using a black-box approach.

NFVbench is available as a self-contained docker container that includes the the main application and the Trex software traffic generator.

NFVbench is agnostic of the NFV platform, the controller used (ML2/OVS, ODL...), the network stack used (OVS, OVS-DPDK, VPP, SR-IOV...) and supports VLAN and VxLAN.

NFVbench is currently widely deployed in production NFV clouds around the world by multiple service providers and is mostly used for

- on-site integrated performance benchmarking tool, which allows instant performance measurement on every deployed NFV platform
- precise performance planning tool with high VNF density (multi-chaining)

NFVbench is also currently used as the traffic generator solution for the [CNCf CNF testbed](#) based on [packet.net: CNF testbed slides](#).

Documentation

- [NFVbench User Guide](#)

Source code

- [Mirror of the OPNFV NFVbench project on GitHub](#)
- [Code review \(Gerrit OPNFV\)](#)
- [Issue tracker \(Jira OPNFV\)](#)

Mailing list

There is no mailing list dedicated to NFVbench.

For inquiries and questions: send an email to anuket-tech-discuss@lists.anuket.io with a Subject line starting with "#nfvbench"

The list archives can be consulted and searched here:
<https://lists.anuket.io/g/anuket-tech-discuss/search?q=%23nfvbench&ct=1>

OPNFV list archives:

<https://lists.opnfv.org/g/opnfv-tech-discuss/search?q=%23nfvbench&ct=1>

TRex project

- [TRex homepage](#)
- [TRex manual](#)
- [TRex code \(GitHub\)](#)
- [TRex release notes](#)

NFVbench Docker image

Where can I find NFVbench Docker images?

Available versions of NFVbench Docker images can be found on Docker hub:

<https://hub.docker.com/r/opnfv/nfvbench/tags>

Where is the change log for NFVbench Docker image?

No ChangeLog, look at [NFVbench commit log](#) on [nfvbench.org](#).

Note: there is also a [GitHub mirror for NFVbench](#), but it is more complicated to see the association between commit history and tags

Which version of TRex is associated to a given version of NFVbench?

For a given version of **NFVbench container image** on Docker hub, TRex version can be found in the **TREX_VER** environment variable in the image history. For instance, NFVbench Docker image version 3.4.1 is based on TRex 2.56 as can be seen [here](#).

For a given version of **NFVbench code base**, the version of TRex that would be embedded in a Docker container built from that code base is given in the **TREX_VER** environment variable found in **docker/Dockerfile**. For instance, NFVbench code base tagged **3.6.1** is meant to be used with TRex 2.61 as can be seen in the [Dockerfile](#).

NFVbench loop VM image

The list of the artifacts generated by NFVbench project, including all versions of NFVbench loop VM, can be found here: <https://artifacts.opnfv.org/nfvbench.html>. Look for **nfvbench/images**.