



Open vSwitch for NFV

Release draft (cf88037)

OPNFV

August 22, 2016

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Welcome to OVSNFV's documentation!

OVSNFV is an OPNFV collaborative development project.

The OVSNFV project proposes:

- To modify the OPNFV build to include a deployment option for the software-accelerated userspace Open vSwitch build. This change will significantly improve the performance of the NFVI for network I/O.
- Future work to encompass collaborative development within the Open vSwitch project to improve the performance of the software-accelerated userspace Open vSwitch and increasing its suitability for Telco NFV deployments.

OVSNFV GUIDES AND INSTALLATION

1.1 Installing OVSNFV Fuel Plugin

- On the Fuel UI, create a new environment.
- On the nodes' interface settings enable DPDK on the interface running the private network.
- **In Settings > Other**
 - Enable “Install Openvswitch with NSH/DPDK”
 - Enable “Install DPDK”
 - Disable “Install NSH”
- Continue with environment configuration and deployment as normal.

1.1.1 Upgrading the plugin

From time to time new versions of the plugin may become available.

The plugin cannot be upgraded if an active environment is using the plugin.

In order to upgrade the plugin:

- Copy the updated plugin file to the fuel-master.
- On the Fuel UI, reset the environment.
- On the Fuel CLI “fuel plugins –update <fuel-plugin-file>”
- On the Fuel UI, re-deploy the environment.

OVSNFV USER GUIDE

2.1 OVSNFV description

Open vSwitch (OVS) is a software switch commonly used in OPNFV deployments. OVSNFV project supplies a Fuel Plugin to upgrade DPDK enabled Open vSwitch on an OPNFV to 2.5.90.

2.2 OVSNFV capabilities and usage

After installation use of the scenario requires no further action by the user. Traffic on the private network will automatically be processed by the upgraded DPDK datapath.

CHAPTER
THREE

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