

# Python-networking-mlnx

## Testing Document

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Rev 1.0

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## Document Revision History

*Table 1: Document Revision History*

Revision	Date	Description
1.0	October 7th, 2019	Initial version of this release.

# 1 Purpose of the Document

The purpose of this document is to present a testing description of python-networking-mlnx for Ubuntu, based on the purpose and content described in the following sections

## 1.1 Testing Description

The testing report is described in the following sections.

### Expected result:

- Python-networking-mlnx provides Infiniband functionality for VMs

## 1.2 Test Environment

- Server with Mellanox NIC that supports Infiniband[1]
  - Mellanox NIC configured to work with Infiniband
  - Mellanox NIC configured to support SR-IOV
- Ubuntu Distribution installed on the server
- Mellanox-OFED[2] installed on the server
- OpenStack deployment AllinOne up and running on the server

## 1.3 TC : Install python-networking-mlnx

```
# apt-get install python-networking-mlnx
```

### Expected result:

- Networking-mlnx is installed with all the dependencies

## 1.4 TC : Configure

Configure all the openstack components including networking-mlnx according to the OpenStack manual[3]

### Expected result:

- Networking-mlnx-agent service is up and running
- Networking-mlnx-eswitchd service is up and running
- All related services ( neutron, nova ) are up and running

## 1.5 TC: Bring up VM over Infiniband

Create OpenStack nova instance over InfiniBand

**Expected result:**

- VM is up and running
- VM is getting DHCP address

## 2 Bibliography

[1] [https://www.mellanox.com/page/infiniband\\_cards\\_overview](https://www.mellanox.com/page/infiniband_cards_overview)

[2]

[https://www.mellanox.com/page/products\\_dyn?product\\_family=26&mtag=linux&ssn=nnb47karrt6prd5b2osrtgrvf7](https://www.mellanox.com/page/products_dyn?product_family=26&mtag=linux&ssn=nnb47karrt6prd5b2osrtgrvf7)[https://www.mellanox.com/page/firmware\\_download](https://www.mellanox.com/page/firmware_download)

[3] <https://wiki.openstack.org/wiki/Mellanox-Neutron>