

Installation of Python + NSX toolkit (pynsxv)
 For Windows

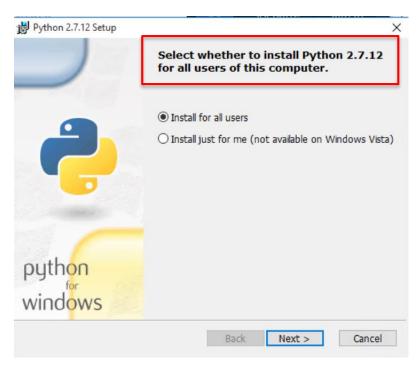
For Linux

2. Validation of pynsxv installation



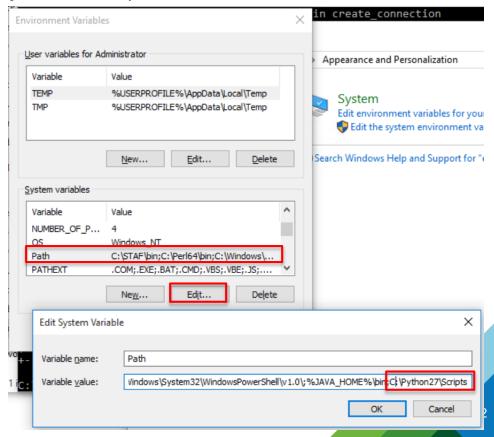
Installation of Python + NSX toolkit (pynsxv) – Windows

- Installation of python
 - Install python 2.x (https://www.python.org/downloads/)
 Note: Attention do NOT install python 3.x



Add python installation folder in the Windows path
 So you can run pynsxv from any folder

Under "Control Panel – Environment Variables", edit the System Variable "Path", and add the "Python27\Scripts" folder:



Installation of Python + NSX toolkit (pynsxv) – Windows

2. Installation of pynsxv

- pip install pynsxv

Note: Solution also requires pyOpenSSL (to talk HTTPS to NSX-Mgr)

pip install pyOpenSSL

Installation of Python + NSX toolkit (pynsxv) – Windows

3. Create nsx.ini file (information for python on NSX + vCenter)

```
×
nsx.ini - Notepad
                                                                                File Edit Format View Help
# variables for pynsxv
[nsxv]
nsx_manager = 192.168.10.5
                                                        NSX-V Manager information
nsx username = admin
nsx password = vmware
[vcenter]
vcenter = 192.168.10.4
vcenter_user = administrator@vsphere.local
                                                                   vCenter information
vcenter passwd = VMware1!
[defaults]
transport zone = TZ1
datacenter name = Lab1
                                                                Other information
edge datastore = NFS Lab1
edge cluster = Cluster-MgtEdge
```

4. That's it ©

Installation of Python + NSX toolkit (pynsxv) – Linux / Ubuntu

Installation of python + pip

```
dimi@ubuntu-python:~$ apt-get install python-openssl libxml2-dev libxslt-dev python-dev zlib1g-dev python-pip -y
```

```
Reading package lists... Done
Building dependency tree
Reading state information... Done
Note, selecting 'libxslt1-dev' instead of 'libxslt-dev'
```

2. Installation of pynsxv

```
dimi@ubuntu-python:~$ sudo pip install pynsxv
Collecting pynsxv
Collecting nsxramlclient>=2.0 (from pynsxv)
Collecting tabulate (from pynsxv)
Collecting pyvmomi (from pynsxv)
```

Installation of Python + NSX toolkit (pynsxv) – Linux / Ubuntu

3. Create nsx.ini file (information for python on NSX + vCenter)

```
dimi@ubuntu-python:~$ cat nsx.ini
  # variables for pynsxv
  [nsxv]
  nsx manager = 192.168.10.5
  nsx username = admin
                                                      NSX-V Manager information
  nsx password = vmware
  [vcenter]
  vcenter = 192.168.10.4
  vcenter user = administrator@vsphere.local
                                                                vCenter information
  vcenter passwd = VMware1!
  [defaults]
  transport zone = TZ1
  datacenter name = Lab1
                                                              Other information
  edge datastore = NFS Lab1
  edge cluster = Cluster-MgtEdge
```

4. That's it ©



Installation of Python + NSX toolkit (pynsxv)
 For Windows

For Linux

2. Validation of pynsxv installation



Validation of pynsxv installation

1. Launch pynsxv help

```
- pynsxv -h
```

```
C:\pynsxv>pynsxv.exe -h
usage: pynsxv-script.py [-h] [-i INI] [-v] [-d]
                        {lswitch,dlr,esg,dfw,usage} ...
PyNSXv Command Line Client for NSX for vSphere
positional arguments:
  {lswitch,dlr,esg,dfw,usage}
                       Functions for logical switches
    lswitch
                       Functions for distributed logical routers
    dlr
                        Functions for edge services gateways
    esg
                        Functions for distributed firewall
    dfw
                        Functions to retrieve NSX-v usage statistics
    usage
optional arguments:
                        show this help message and exit
 -h, --help
 -i INI, --ini INI
                       nsx configuration file
  -v, --verbose
                        increase output verbosity
                        print low level debug of http transactions
  -d, --debug
```

```
dimi@ubuntu-python:~$ pynsxv -h
usage: pynsxv [-h] [-i INI] [-v] [-d] {lswitch,dlr,esq,dfw,usage} ...
PyNSXv Command Line Client for NSX for vSphere
positional arguments:
  {lswitch, dlr, esq, dfw, usage}
                        Functions for logical switches
    lswitch
    dlr
                        Functions for distributed logical routers
                        Functions for edge services gateways
    esq
                        Functions for distributed firewall
    dfw
                        Functions to retrieve NSX-v usage statistics
    usage
optional arguments:
  -h, --help
                        show this help message and exit
 -i INI, --ini INI
                        nsx configuration file
  -v, --verbose
                        increase output verbosity
  -d, --debug
                        print low level debug of http transactions
```

Windows

Validation of pynsxv installation

- 2. List NSX-v Logical Switches
 - pynsxv lswitch list

```
C:\pynsxv>pynsxv lswitch list
                 LS ID
  LS name
 Transit LS-01
                 virtualwire-2
 Web LS-01
                 virtualwire-3
 App_LS-01
                 virtualwire-4
 DB LS-01
                 virtualwire-5
 TSWeb
                 virtualwire-51
 Transit LS-02
                 virtualwire-74
 Web-01
                 virtualwire-89
 App-01
                 virtualwire-90
 DB-01
                 virtualwire-91
  Transit-01
                 virtualwire-92
```

Windows

```
dimi@ubuntu-python:~$ pynsxv lswitch list
                I LS ID
 LS name
 Transit LS-01 | virtualwire-2
 Web LS-01
               | virtualwire-3
 App LS-01
             | virtualwire-4
 DB LS-01
             | virtualwire-5
 TSWeb
              | virtualwire-51
 Transit LS-02 | virtualwire-74
 Web-01
               | virtualwire-89
 App-01
               | virtualwire-90
 DB-01
               | virtualwire-91
 Transit-01
               | virtualwire-92
```

Linux