

5GTango sdk testing

Some tips:

Add some extra commands that facilitate the installation process:

Secure | <https://sonata-nfv.github.io/sdk-installation>

SDK TOOLS

The installation of the sdk components requires: Python 3.5+ and setuptools.

Best practice is to first create a fresh virtual environment and then install all SDK tools in this environment.

```
# find out the path to your python3
which python3
# create a fresh virtualenv sudo apt-get install virtualenv
virtualenv -p <path_to_python3> venv
# activate the virtualenv
source venv/bin/activate
```

Install all SDK tools:

```
# install tng-sdk-project
pip install git+https://github.com/sonata-nfv/tng-sdk-project.git

# install tng-sdk-validator
pip3 install git+https://github.com/sonata-nfv/tng-sdk-validation.git

# install tng-sdk-package
pip3 install git+https://github.com/sonata-nfv/tng-sdk-package
```

Test the installation:

Include specific example.

It would be nice to have some files there for testing. Maybe update the quick guide with the haproxy squid example so as to be compatible with the sp quick guide. An adaptation of this tutorial would be great:

<https://github.com/stefanbschneider/son-tutorials/tree/master/upb-osm-hackfest-sdk-demo#descriptor-generation>

Descriptors creation

The recommended workflow when developing a SONATA network service consists on using the CLI tools to create a workspace, create a project to hold the descriptors of the service, validate the components and finally, create a bundled service package. The required steps are as follows:

- Step 1: Create Workspace

```
tng-workspace
tng-workspace --workspace path/to/workspace
```

- Step 2: Create Project

```
tng-project -p path/to/project # creates a new project at the specified path
tng-project -p path/to/project --add file1 # adds file1 to the project.yml
tng-project -p path/to/project --add file1 --type text/plain # adds file1 with explicit MIME t
tng-project -p path/to/project --remove file1 # removes file1 from the project.yml
tng-project -p path/to/project --status # shows project overview/status
```

NOTE: Since the structure of projects and descriptors changed from SONATA (v3.1) to 5GTANGO (v4.0), tng-project also provides a command to automatically translate old to new projects. For more information see the corresponding wiki page.

```
tng-project -p path/to/old-project --translate # translates the project to the new structure
```

Include specific example so as to be more easy to use directly the sdk

At

[https://github.com/sonata-nfv/tng-sdk-benchmark/wiki/Setup-execution-platform-\(vim-emu\)#overview](https://github.com/sonata-nfv/tng-sdk-benchmark/wiki/Setup-execution-platform-(vim-emu)#overview) section TODO link should be replaced with commands for installation on machine1

Step 2 should be more detailed:

[https://github.com/sonata-nfv/tng-sdk-benchmark/wiki/Setup-execution-platform-\(vim-emu\)#2-cl-one-tng-sdk-benchmark](https://github.com/sonata-nfv/tng-sdk-benchmark/wiki/Setup-execution-platform-(vim-emu)#2-cl-one-tng-sdk-benchmark)

```
Machine1
Install ansible :
sudo apt-get update
sudo apt-get install software-properties-common
sudo apt-add-repository ppa:ansible/ansible
sudo apt-get update
sudo apt-get install ansible

Install git
sudo apt-get install git

git clone https://github.com/sonata-nfv/tng-sdk-benchmark.git
```

Step 3 could

[https://github.com/sonata-nfv/tng-sdk-benchmark/wiki/Setup-execution-platform-\(vim-emu\)#3-configure-ansible](https://github.com/sonata-nfv/tng-sdk-benchmark/wiki/Setup-execution-platform-(vim-emu)#3-configure-ansible)

redirect to somewhere like that:

https://docs.ansible.com/ansible/latest/user_guide/intro_inventory.html

And maybe provide some more info about the configuration:

example1:

```
ansible vim-emu-nodes -i hosts.yml -m ping --extra-vars "ansible_password=###"
```

Example2:

```
vim-emu-nodes:
  hosts:
    tangol:
      ansible_host: 212.101.173.114
      ansible_user: tngbench
      ansible_password: #####
  vars:
    ansible_user: tngbench
```

Ansible installer has to be executed twice. Why? If this can not be changed it is important to be part of the documentation:

[https://github.com/sonata-nfv/tng-sdk-benchmark/wiki/Setup-execution-platform-\(vim-emu\)#4-run-ansible-installer](https://github.com/sonata-nfv/tng-sdk-benchmark/wiki/Setup-execution-platform-(vim-emu)#4-run-ansible-installer)