



YANG to TOSCA Documents

Release draft (ebb5960)

OPNFV

January 18, 2016

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This is the directory to store documents regarding YANG to TOSCA translation.

The “README” document demonstrates parsing Telecom operators’ VNF descriptors (YANG templates) into TOSCA templates and then further translate TOSCA templates into certain common templates, which could be used in IaaS orchestration projects like OpenStack Heat.

See also <https://wiki.opnfv.org/parser> .

OVERVIEW

Parser is an open source project and licensed under Apache 2. Parser will help to provide a tooling mechanism, by parsing Telecom operators' VNF descriptors (YANG templates) into TOSCA templates and then further translate TOSCA templates into certain common templates, which could be used in IaaS orchestration projects like OpenStack Heat.

PREREQUISITES

Parser requires the following to be installed.

2.1 1. PYANG

Please follow the below installation steps.

Step 1: Clone pyang tool or download the zip file from the following link.

```
git clone https://github.com/mbj4668/pyang.git or  
wget https://github.com/mbj4668/pyang/archive/master.zip
```

Step 2: Change directory to the downloaded directory and run the setup file. `cd pyang python setup.py`

2.2 2. python-lxml

Please follow the below installation link. <http://lxml.de/installation.html>

INSTALLATION

Please follow the below installation steps to install parser.

Step 1: Clone the parser project. `git clone https://gerrit.opnfv.org/gerrit/parser`

EXECUTION

Step 1: Change directory to where the scripts are present. `cd parser/yang2tosca`

Step 2: Copy the YANG file which needs to be converted into TOSCA to current (parser/yang2tosca) folder.

Step 3: Run the python script “parser.py” with the YANG file as an input option.

```
python parser.py -n “YANG filename”
```

Example: `python parser.py -n example.yaml`

Step 4: Verify the TOSCA YAMI which file has been created with the same name as the YANG file with a “_tosca” suffix. `cat “YANG filename_tosca.yaml”`

Example: `cat example_tosca.yaml`