



NONRTRIC Helm charts and Tests in it/dep repository

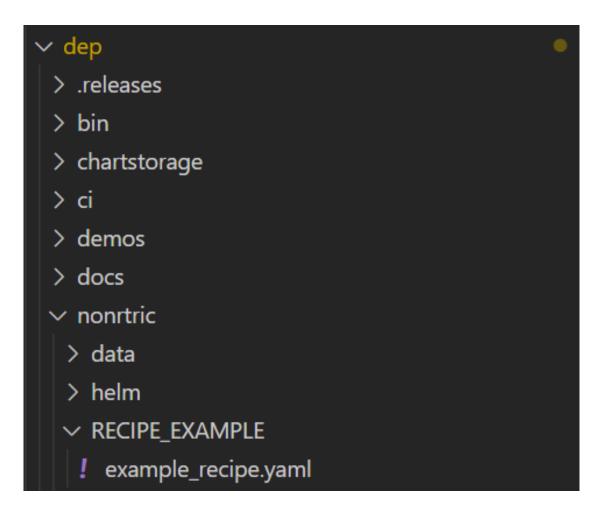


Agenda

- Standalone NONRTRIC helm charts
- NONRTRIC helm charts under SMO-Install
- Python based tests under SMO-Install
- Demo on tests to validate RAPP deployment using ACM

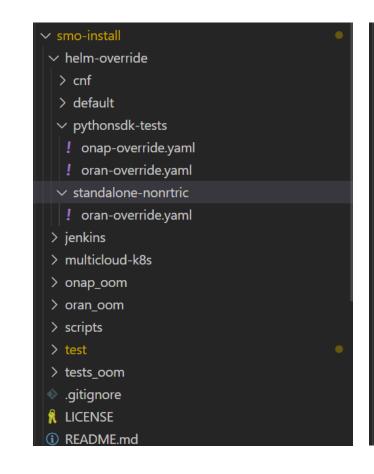
Standalone NONRTRIC helm charts

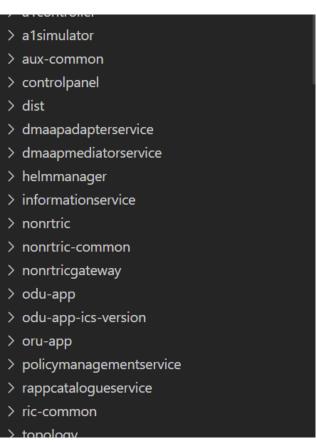
- Helm charts for NONRTRIC components is available under *itdep/dep/nonrtric* folder.
- Installation configurations can be controlled using example_recipe.yaml
- Instructions for this deployment is available under https://wiki.o-ran-sc.org/display/RICNR/Release+F+-+Run+in+Kubernetes





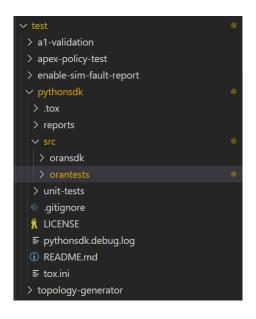
- Helm charts for NONRTRIC components is available under itdep/dep/smo-install/oran_oom folder.
- Installation configurations can be controlled using configurations under itdep/dep/smoinstall/helm-override folder.
- Installation instructions can be found in README.md
- Standalone-nonrtric profile introduced for the standalone nonrtric installation using the charts build under smo-install

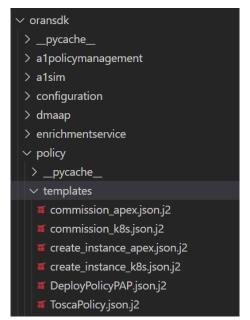


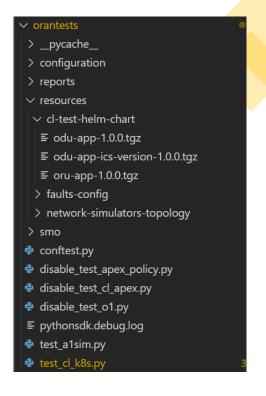


Python based tests under SMO

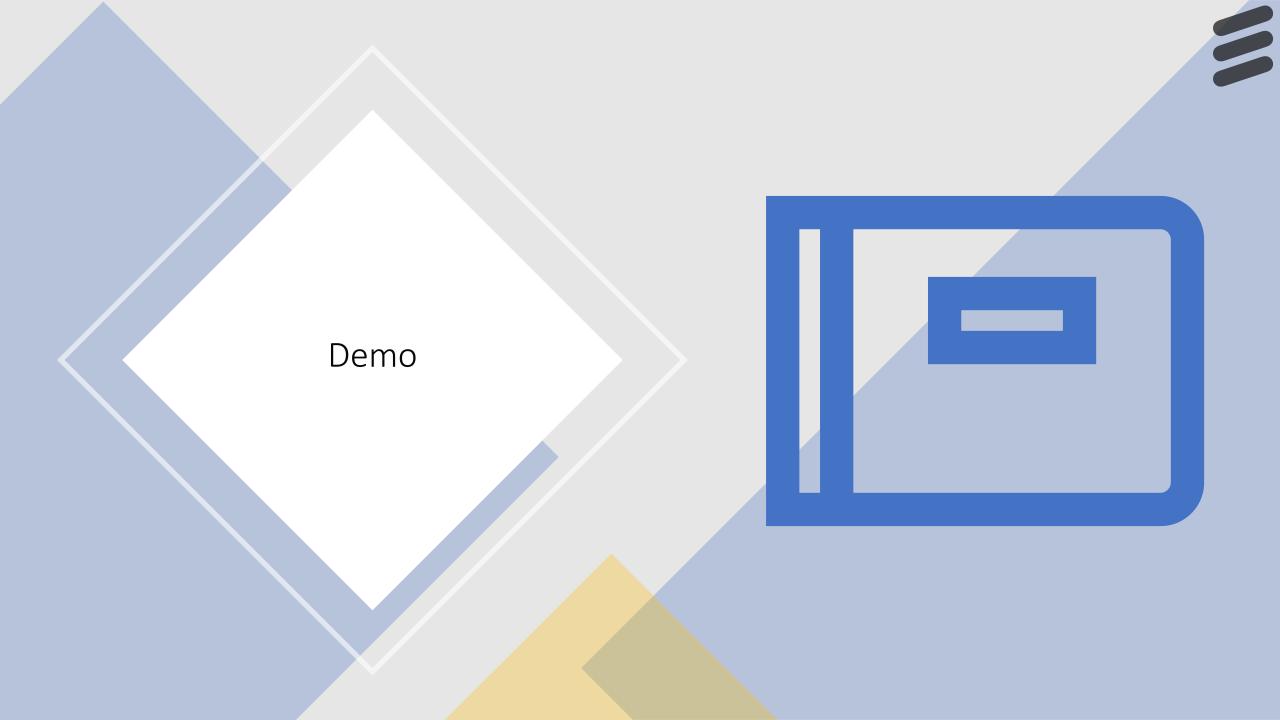
- Python based tests are available under dep/smo-install/test/pythonsdk folder
- It contains the SDK named as oransdk.
- Rapps under NONRTRIC are deployed using using HELM participant.
- ACM tests are enabled and available in "test_cl_k8s.py".
- Charts required for the tests are added under "cl-test-helm-chart".
- Tox is used as test runner.
- Logs are available in pythonsdk.debug.log.











Flow of RAPP ACM deployment test

- Deploy chartmuseum server.
- Add chart museum repository details to ACM k8s participant.
- Upload tosca to commissioning.
- Create ACM instance. On successful creation ACM instance will be in UNINTIALIZED state.
- Move the ACM Instance to PASSIVE state.
- Verify the RAPP is up and running.
- Move the ACM Instance to UNINTIALIZED state.
- Cleanup Remove chartmuseum configuration and Remove chartmuseum server

```
root@kubeflow-poc-vm-1:/home/ubuntu/itdep/dep/smo-install/test/pythonsdk# tox -e oran-tests
oran-tests installed: astroid==2.3.3,attrs==22.1.0,certifi==2022.9.24,cffi==1.15.1,chardet==3.0.4,coverage==6.5.0,cryptography==38.0.4,idna==2.10,iniconfig==1.1.1,isort==4.3.21,Jinja2==2.1
2.0, lazy-object-proxy==1.4.3, MarkupSafe==2.0.1, mccabe==0.6.1, onapsdk==9.0.0, oyaml==1.0, packaging==21.3, pluggy==1.0.0, py==1.11.0, pycparser==2.21, pydocstyle==5.1.1, pylint==2.4.4, pyOpenSSL==1
.0.9, pyrsistent==0.19.2, PySocks==1.7.1, pytest==6.2.5, pytest-cov==2.10.1, PyYAML==6.0, requests==2.24.0, simple json==3.17.2, six==1.16.0, snowballstemmer==2.2.0, toml==0.10.2, urllib3==1.25.11, wai
=1.11.2
oran-tests run-test-pre: PYTHONHASHSEED='1177748908'
oran-tests run-test: commands[0] | pytest -v --junit-xml=reports/junit/oran-tests.xml src/orantests/
error: You must provide one or more resources by argument or filename.
Example resource specifications include:
    '-f rsrc.vaml'
    '--filename=rsrc.json'
    '<resource> <name>'
    '<resource>'
No resources found in nonrtric namespace.
/home/ubuntu/itdep/dep/smo-install/test/pythonsdk/.tox/oran-tests/lib/python3.8/site-packages/urllib3/connectionpool.py:981: InsecureRequestWarning: Unverified HTTPS request is being made
3.24'. Adding certificate verification is strongly advised. See: https://urllib3.readthedocs.io/en/latest/advanced-usage.html#ssl-warnings
  warnings.warn(
/home/ubuntu/itdep/dep/smo-install/test/pythonsdk/.tox/oran-tests/lib/python3.8/site-packages/urllib3/connectionpool.py:981: InsecureRequestWarning: Unverified HTTPS request is being made
3.158'. Adding certificate verification is strongly advised. See: https://urllib3.readthedocs.io/en/latest/advanced-usage.html#ssl-warnings
  warnings.warn(
Error from server (NotFound): namespaces "network" not found
platform linux -- Python 3.8.15, pytest-6.2.5, py-1.11.0, pluggy-1.0.0 -- /home/ubuntu/itdep/dep/smo-install/test/pythonsdk/.tox/oran-tests/bin/python
cachedir: .tox/oran-tests/.pytest_cache
rootdir: /home/ubuntu/itdep/dep/smo-install/test/pythonsdk
plugins: cov-2.10.1
collected 4 items
src/orantests/test_alsim.py::test_alsim PASSED
src/orantests/test_cl_k8s.pv::test_cl_oru_app_deploy_PASSED
src/orantests/test cl k8s.pv::test cl odu app smo deplov PASSED
src/orantests/test_cl_k8s.py::test_cl_odu_app_ics_deploy PASSED
                                                                  src/orantests/test_cl_k8s.py::test_cl_oru_app_deploy
src/orantests/test_cl_k8s.py::test_cl_odu_app_smo_deploy
src/orantests/test_cl_k8s.py::test_cl_odu_app_ics_deploy
  /home/ubuntu/itdep/dep/smo-install/test/pythonsdk/.tox/oran-tests/lib/python3.8/site-packages/urllib3/connectionpool.py:981: InsecureRequestWarning: Unverified HTTPS request is being mac
183.158'. Adding certificate verification is strongly advised. See: https://urllib3.readthedocs.io/en/latest/advanced-usage.html#ssl-warnings
     warnings.warn(
-- Docs: https://docs.pytest.org/en/stable/warnings.html
     generated xmc rice, rome, abanea, resp, act, resp, act,
```

