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](https://wiki.o-ran-sc.org/display/RICNR/Release+F+-+Run+in+Kubernetes)
NONRTRIC helm charts under SMO

- 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/smo-install/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.
Demo
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 UNINITIALIZED state.
• Move the ACM Instance to PASSIVE state.
• Verify the RAPP is up and running.
• Move the ACM Instance to UNINITIALIZED state.
• Cleanup – Remove chartmuseum configuration and Remove chartmuseum server
root@kubeflow-poc-vm-1:/home/ubuntu/itdep/dep smo-install/test/python-sdk# tox -e oran-tests
oran-tests run-test-pre: PYTHONHASHSEED='1177749988'
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 xyz.yaml'
'--filename=src.json'
'--resource= name=
'--resources'
No resources found in nontric namespace.
/home/ubuntu/itdep/dep smo-install/test/python-sdk/tox/oran-tests/Lib/python3.8/site-packages/urllib3/connectionpool.py:981: InsecureRequestWarning: Unverified HTTPS request is being made
    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/python-sdk/tox/oran-tests/Lib/python3.8/site-packages/urllib3/connectionpool.py:981: InsecureRequestWarning: Unverified HTTPS request is being made
    Adding certificate verification is strongly advised. See: https://urllib3.readthedocs.io/en/latest/advanced-usage.html#ssl-warnings
warnings.warn()
Error from server (NetFound): namespaces 'network' not found
---------------------------------------------------------------------
platform linux -- Python 3.8.15, py-test-6.2.5, py-1.11.8, pluggy-1.9.0 -- /home/ubuntu/itdep/dep smo-install/test/python-sdk/bin/python
cachedir: .tox/oran-tests/.pytest_cache
rootdir: /home/ubuntu/itdep/dep smo-install/test/python-sdk
plugins: cov=2.10.1
collected 4 items
src/orantests/test_alsim.py::test_alsim PASSED
src/orantests/test_cl_ksd.py::test_cl_ods_app_deploy PASSED
src/orantests/test_cl_ksd.py::test_cl_ods_app_sso_deploy PASSED
src/orantests/test_cl_ksd.py::test_cl_ods_app_ics_deploy PASSED

=====================================================================
warnings summary


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src/orantests/test_cl_ksd.py::test_cl_ods_app_deploy
src/orantests/test_cl_ksd.py::test_cl_ods_app_sso_deploy
src/orantests/test_cl_ksd.py::test_cl_ods_app_ics_deploy
/home/ubuntu/itdep/dep smo-install/test/python-sdk/tox/oran-tests/Lib/python3.8/site-packages/urllib3/connectionpool.py:981: InsecureRequestWarning: Unverified HTTPS request is being made
    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/latest/warnings.html

-- generated xml file: /home/ubuntu/itdep/dep smo-install/test/python-sdk/src/orantests/reports/junit/oran-tests.xml

--------------------------------------------------------------
4 passed, 3 warnings in 389.69s (0:06:29)
--------------------------------------------------------------
oran-tests commands succeeded
congratulations ~
Questions?