NONRTRIC Helm charts and Tests in it/dep repository

- Standalone NONRTRIC helm charts
- NONRTRIC helm charts under SMO-Install


## Agenda

- 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

```
vep
    > .releases
    > bin
    > chartstorage
    ci
     demos
    > docs
\checkmark ~ n o n r t r i c ~
    > data
    > helm
    \vee RECIPE_EXAMPLE
        ! example_recipe.yaml
```


## 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

```
\checkmark ~ s m o - i n s t a l l ~
\checkmark ~ h e l m - o v e r r i d e
> cnf
> default
\checkmark ~ p y t h o n s d k - t e s t s
    ! onap-override.yaml
    ! oran-override.yaml
    \checkmark ~ s t a n d a l o n e - n o n r t r i c ~
        ! oran-override.yaml
    *)
        > jenkins
> multicloud-k8s
> onap_oom
> oran_oom
> scripts
> test
> tests_oom
*).gitignore
& LICENSE
```

```
a1simulator
> aux-common
> controlpanel
> dist
dmaapadapterservice
> dmaapmediatorservice
> helmmanager
> informationservice
> nonrtric
> nonrtric-common
> nonrtricgateway
> odu-app
> odu-app-ics-version
> oru-app
> policymanagementservice
> rappcatalogueservice
> ric-common
```


## 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.


## a1-validation <br> $>$ apex-policy-test <br> enable-sim-fault-report <br> pythonsdk <br> > tox <br> > reports <br> > oransdk <br> > orantests <br> $>$ unit-tests <br> .gitignore <br> § LICENSE <br> E pythonsdk.debug.log <br> (1) README.md <br> 三 tox.ini <br> topology

## oransdk

_pycache_
a1policymanagement
a1sim
configuration
dmaap
enrichmentservice
policy
> _pycache_
$\checkmark$ templates
ㅍ̈ commission_apex.json.j2
III commission_k8s.json.j2
ㅍㅍ create_instance_apex.json.j2
ㅍㅍ create_instance_k8s.json.j2
표 DeployPolicyPAP.json.j2
III ToscaPolicy.json.j2

```
rantests
    _pycache_
    configuration
    reports
    resources
    \checkmark ~ c l - t e s t - h e l m - c h a r t ~
    \equiv odu-app-1.0.0.tgz
    \equiv odu-app-ics-version-1.0.0.tgz
    \equiv oru-app-1.0.0.tgz
    > faults-config
     network-simulators-topology
    > smo
\gtrless conftest.py
 disable_test_apex_policy.py
\gtrless disable_test_cl_apex.py
\digammaఔ disable_test_o1.py
\equiv pythonsdk.debug.log
\gtrless test_a1sim.py
 test_a1sim.py
```

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 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



ran-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. yaml
--filename=rsrc.json'
<resource> <name>
<resource>'
No resources found in nonrtric namespace.

3.24'. Adding certificate verification is strongly advised. See: https://urllib3.readthedocs.io/en/latest/advanced-usage.html\#ssl-warnings
 3.158'. Adding certificate verification is strongly advised. See: https://urllib3.readthedocs.io/en/latest/advanced-usage.html\#ssl-warnings
warnings.warnC
Error from server (NotFound): namespaces "network" not found

cachedir: .tox/oran-tests/.pytest_cache
rootdir: /home/ubuntu/itdep/dep/smo-install/test/pythonsdk
plugins: cov-2.10.1
ollected 4 items
src/orantests/test_a1sim.py::test_a1sim PASSED
src/orantests/test_cl_k8s.py::test_cl_oru_app_deploy PASSED
src/orantests/test_cl_k8s.py::test_cl_odu_app_smo_deploy 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
sc/orantests/test_cl_k8s.py::test_cl_odu_app_smo_deploy
rc/orantests/test_cl_k8s.py::test_cl_odu_app_ics_deploy
 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 xml file: /home/ubuntu/itdep/dep/smo-install/test/pythonsdk/src/orantests/reports/junit/oran-tests.xml
 summary
oran-tests: commands succeeded
congratulations :

Questions?

