

Examples:

- <https://github.com/o-ran-sc/nonrtic>
- <https://github.com/o-ran-sc/nonrtic-plt-rappmanager/tree/master/sample-rapp-generator/es-demo-rapp>
- <https://github.com/o-ran-sc/nonrtic-rapp-healthcheck>

Some Notes:

- **Policy Data:**
<https://docs.o-ran-sc.org/projects/o-ran-sc-nonrtic-plt-a1policymanagementservice/en/latest/offeredapis/pms-api/index.html>
- Use `kubectl -n istio-nonrtic port-forward svc/policy-agent 18081:8081` to port forward swagger docs, view them here
<http://localhost:18081/swagger-ui/index.html#/Service%20Registry%20and%20Supervision/putService>
 - This is to get the policy PUT and GET request formats
- Running commands inside specific pods
 - # namespace (change if yours differs)
 - NS=istio-nonrtic
 -
 - # grab the toolbox pod name (label app=toolbox from earlier)
 - POD=\$(kubectl -n "\$NS" get pod -l app=toolbox -o jsonpath='{.items[0].metadata.name}')
 -
 - # run both curls inside that pod
 - `kubectl -n "$NS" exec -it "$POD" -- sh -lc '`
 - `echo "== services ==";`
 - `curl -s http://policy-agent:8081/a1-policy/v2/services; echo;`
 -
 - `echo "== policy-instances ==";`
 - `curl -s http://policy-agent:8081/a1-policy/v2/policy-instances; echo;`
 - '
- **Exec into a specific pod**
 - `kubectl -n <namespace> exec -it <pod-name> -- <command and args>`
- **Find a pod by label**
`kubectl -n <ns> get pod -l <key>=<value>`
First pod with that label:
`POD=$(kubectl -n <ns> get pod -l app=myapp -o jsonpath='{.items[0].metadata.name}')`
`kubectl -n <ns> exec -it "$POD" -- sh`

- Handy basics

- # list pods (wide = show IP/node)
- `kubectl -n <ns> get pods -o wide`
-
- # follow logs
- `kubectl -n <ns> logs -f <pod>`
- `kubectl -n <ns> logs -f <pod> -c <container> #`
`multi-container pod`
-
- # port-forward to your laptop (exposes a service locally)
- `kubectl -n <ns> port-forward svc/<service> 8080:8080`

Site Docs:

<https://lf-o-ran-sc.atlassian.net/wiki/spaces/RICNR/pages/86802677/Release+K+-+Run+in+Doc+ker>
<https://github.com/o-ran-sc/nonrtic>
<https://github.com/o-ran-sc/nonrtic-plt-rappmanager/tree/master>
<https://lf-o-ran-sc.atlassian.net/wiki/spaces/OAM/pages/14680087/OAM+Architecture>

Useful Docs:

<https://lf-o-ran-sc.atlassian.net/wiki/spaces/OAM/pages/14680148/NETCONF+YANG>

Setup Docs (Used Ubuntu 24.04.1 on Windows):

A1 Setup:

Create New Repo:

```
mkdir nonrtic-docker && cd nonrtic-docker
```

Create application_configuration.json:

```
nano application_configuration.json
```

Paste Json:

```
{  
  "config": {  
    "ric": [  
      {  
        "name": "ric1",  
        "baseUrl": "http://host.docker.internal:8085/",  
        "managedElementIds": ["kista_1", "kista_2"]  
      }  
    ]  
  }  
}
```

```
}  
]  
}  
}
```

Create a1-simulators.yaml:

nano a1-simulators.yaml

Paste:

version: '3'

services:

ric1:

image: nexus3.o-ran-sc.org:10004/o-ran-sc/a1-sim-std:1.1.3

container_name: ric1

networks:

- nonrtic-docker-net

ports:

- "8085:8085"

networks:

nonrtic-docker-net:

external: true

Get Image:

<https://nexus3.o-ran-sc.org/#browse/browse:docker.release:v2%2Fo-ran-sc%2Fnonrtic-plt-a1policymanagementservice%2Ftags%2F2.9.0>

OR pull image:

docker pull

nexus3.o-ran-sc.org:10004/o-ran-sc/nonrtic-plt-a1policymanagementservice:2.9.0

Run Image:

docker run --rm -v <REPLACE_WITH_PATH>/application_configuration.json -p

8081:8081 -p 8433:8433 --network=nonrtic-docker-net

--name=policy-agent-container

nexus3.o-ran-sc.org:10004/o-ran-sc/nonrtic-plt-a1policymanagementservice:2.9.0

Start Simulator:

docker run --rm --network=nonrtic-docker-net -p 8085:8085 -p 8185:8185 -e

A1_VERSION=OSC_2.1.0 -e ALLOW_HTTP=true --name=ric1

nexus3.o-ran-sc.org:10002/o-ran-sc/a1-simulator:2.8.0

Test With:

curl <http://localhost:8081/a1-policy/v2/rics>

Should Get Something Like:

```
{"rics":[{"ric_id":"ric1","managed_element_ids":["kista_1","kista_2"],"state":"AVAILABLE","policytype_ids":[""]}]}
```