

Deploy NONRTRIC with Docker

This page is out of date.

Please see the relevant page for the latest release: e.g. [Release 1 - Run in Docker](#)

This article is an out of date guide to help you to deploy the nonrtric A1 Policy Functions using docker compose.

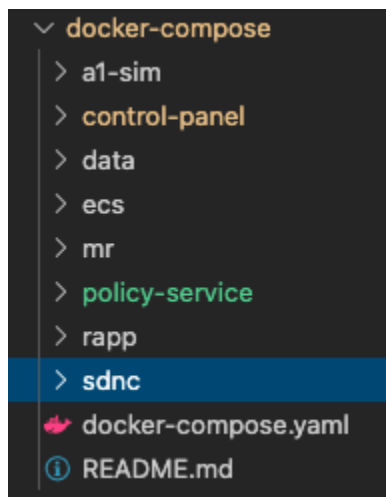
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Prerequisite

- *Docker*
- *Docker Compose*

Installation

Clone [nonrtric](#) and go to nonrtric/docker-compose/



You can see a few folders for different components. You have the option to install the nonrtric with/without A1 controller based on your requirement.

NONRTRIC A1 Policy functions without A1 Controller

This command is to create nonrtric system without sdnc a1-controller

nosdnc

```
cd nonrtric/docker-compose/  
cp policy-service/config/application_configuration.nocontroller.json policy-service/config/  
application_configuration.json  
docker-compose -f docker-compose.yml -f control-panel/docker-compose.yml up -d
```

You can see the docker containers with docker ps,

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS
14d39265eadd	nexus3.o-ran-sc.org:10004/o-ran-sc/a1-simulator:2.0.0	"/bin/sh -c 'src/sta..."	50 seconds ago	Up 48 seconds	0.0.0.0:30001->8085/tcp, 0.0.0.0:30002->8185/tcp
b3e1ee62ad92	nexus3.o-ran-sc.org:10004/o-ran-sc/a1-simulator:2.0.0	"/bin/sh -c 'src/sta..."	50 seconds ago	Up 47 seconds	0.0.0.0:30003->8085/tcp, 0.0.0.0:30004->8185/tcp
6d4a49de51bc	nexus3.o-ran-sc.org:10004/o-ran-sc/nonrtric-controlpanel:2.0.0	"java -Xms128m -Xmx2..."	50 seconds ago	Up 47 seconds	0.0.0.0:8080->8080/tcp, 0.0.0.0:8082->8082/tcp
c5b6a73e4fcd	nexus3.o-ran-sc.org:10004/o-ran-sc/nonrtric-policy-agent:2.0.0	"java -jar /opt/app/..."	50 seconds ago	Up 48 seconds	0.0.0.0:8081->8081/tcp, 0.0.0.0:8433->8433/tcp

you should be able to see containers running as above.

Nonrtric with A1 Controller

This command is to create nonrtric system with sdnc a1-controller

sdnc

```
cd nonrtric/docker-compose/
cp policy-service/config/application_configuration.controller.json policy-service/config/application_configuration.json
docker-compose -f docker-compose.yml -f sdnc/docker-compose.yml -f control-panel/docker-compose.yml up -d
```

You can see the docker containers with docker ps,

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS
ac3b8af6b335	nexus3.o-ran-sc.org:10004/o-ran-sc/nonrtric-a1-controller:2.0.0	"/opt/onap/sdnc/bin/..."	6 seconds ago	Up 5 seconds	0.0.0.0:8443->8443/tcp, 0.0.0.0:8282->8181/tcp
69fb4e239dae	mysql/mysql-server:5.6	"/entrypoint.sh mysq..."	9 seconds ago	Up 6 seconds (health: starting)	0.0.0.0:33127->3306/tcp
9558b1f75f84	nexus3.o-ran-sc.org:10004/o-ran-sc/nonrtric-policy-agent:2.0.0	"java -jar /opt/app/..."	9 seconds ago	Up 6 seconds	0.0.0.0:8081->8081/tcp, 0.0.0.0:8433->8433/tcp
24ea245009ca	nexus3.o-ran-sc.org:10004/o-ran-sc/a1-simulator:2.0.0	"/bin/sh -c 'src/sta..."	9 seconds ago	Up 7 seconds	0.0.0.0:30003->8085/tcp, 0.0.0.0:30004->8185/tcp
34ce45053323	nexus3.o-ran-sc.org:10004/o-ran-sc/a1-simulator:2.0.0	"/bin/sh -c 'src/sta..."	9 seconds ago	Up 6 seconds	0.0.0.0:30001->8085/tcp, 0.0.0.0:30002->8185/tcp
8eac2bfaff646	nexus3.o-ran-sc.org:10004/o-ran-sc/nonrtric-controlpanel:2.0.0	"java -Xms128m -Xmx2..."	9 seconds ago	Up 6 seconds	0.0.0.0:8080->8080/tcp, 0.0.0.0:8082->8082/tcp

you should be able to see container running as above.

Init Script

You can create sample policy types/policy instances of both Standard & OSC Version.

Run the **fill_data.sh** script under directory /data to create some dummy data in the running system.

Command to load the data,

load data

```
cd /nonrtric/docker-compose/data

./preparePmsData.sh.sh [policy-agent-port] [a1-sim-OSC-port] [a1-sim-STD-port] [http/https]
```

This will create,

- one policy type in a1-sim-OSC
- one service in policy agent
- one policy in a1-sim-OSC
- one policy in a1-sim-STD

Open the GUI to view all the policies & policy types created by the above script.

[http://localhost:\[control-panel-port\]/](http://localhost:[control-panel-port]/)

← → ↻ localhost:8080/policy

Max KI Home sthhub-proj

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Non-RT RIC Control Panel

Policy Control

Policy Type

Description

^ < No type >

Instance	Near-RT RIC	Owner	Last modified
2100	ric2	service1	08/06/2020, 21:33:11

^ 1

Type 1 policy type

Instance	Near-RT RIC	Owner	Last modified
2000	ric1	service1	08/06/2020, 21:33:11