

Deploy DMaaP message router in nonrtric

This page is out of date.

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

This article helps you to deploy the NON-RT-RIC components using docker compose.

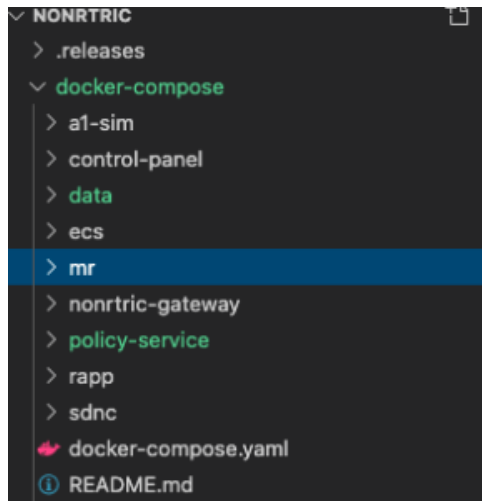
- [Prerequisite](#)
- [Installation](#)
- [NON-RT-RIC without A1 Controller, with dmaap-mr](#)
- [Init Script](#)
- [Manual test](#)
- [Message format](#)

Prerequisite

- *Docker*
- *Docker Compose*

Installation

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



You can see a few folders, each of them contains a docker-compose file for different components. You have the option to install the nonrtric with/without A1 controller/dmapp-mr based on your requirement.

NON-RT-RIC without A1 Controller, with dmaap-mr

withDmaap_nosdnc/docker-compose.yml

This file is to create nonrtric system without sdnc a1-controller, with dmapp-mr

nosdnc with dmaap-mr

```
docker-compose -f docker-compose.yaml -f control-panel/docker-compose.yaml -f policy-service/docker-compose.yaml -f mr/docker-compose.yaml up -d
```

You can see the docker containers with `docker ps`,

Manual test

send messages to dmaap-mr

```
cd nonrtric/docker-compose/data
curl -X POST "http://localhost:3904/events/A1-POLICY-AGENT-READ/" -H "accept: application/json" -H "Content-Type: application/json" --data-binary @testdata/dmaap-msg-policy-get.json
```

pull messages from dmaap-mr

```
curl -X GET "http://localhost:3904/events/A1-POLICY-AGENT-WRITE/users/policy-agent?timeout=15000&limit=100" -H "accept: application/json" -H "Content-Type: application/json" | jq .
```

You can see the messages from dmaap-mr topic **A1-POLICY-AGENT-WRITE**, with consumer group **"user"**, consumer id **"policy-agent"**

```
chengkaiyan@Chengkais-MacBook-Pro:~/oran/docker-compose$ curl -X GET "http://localhost:3904/events/A1-POLICY-AGENT-WRITE/users/policy-agent?timeout=15000&limit=100" -H "accept: application/json" -H "Content-Type: application/json" | jq .
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
           Dload  Upload   Total   Spent    Left   Speed
100 2839  100 2839    0     0  4367    0 --:--:-- --:--:-- --:--:-- 4360
[
  {
    "requestId": "\23343221",
    "correlationId": "\1596363458549998500",
    "originatorId": "\849e6c6b420",
    "type": "\response",
    "message": "\OK",
    "timestamp": "\2020-08-02 10:17:38.558324",
    "status": "\200 OK"
  },
  {
    "requestId": "\23343221",
    "correlationId": "\1596363458549998501",
    "originatorId": "\849e6c6b421",
    "type": "\response",
    "message": "\OK",
    "timestamp": "\2020-08-02 10:17:38.558324",
    "status": "\200 OK"
  },
  {
    "requestId": "\23343221",
    "correlationId": "\1596363459196978900",
    "originatorId": "\849e6c6b420",
    "type": "\response",
    "message": "\OK",
    "timestamp": "\2020-08-02 10:17:39.197067",
    "status": "\200 OK"
  },
  {
    "requestId": "\23343221",
    "correlationId": "\1596304565904621535",
    "originatorId": "\849e6c6b420",
    "type": "\response",
    "message": "\",
    "timestamp": "\2020-08-01 17:56:05.905035",
    "status": "\200 OK"
  },
  {
    "requestId": "\23343221",
    "correlationId": "\159630456656253556",
    "originatorId": "\849e6c6b420",
    "type": "\response",
    "message": "\",
    "timestamp": "\2020-08-01 17:56:06.656949",
    "status": "\200 OK"
  },
  {
    "requestId": "\23343221",
    "correlationId": "\159630456656253557",
    "originatorId": "\849e6c6b420",
    "type": "\response",
    "message": "\",
    "timestamp": "\2020-08-01 17:56:06.656949",
    "status": "\200 OK"
  },
  {
    "requestId": "\23343221",
    "correlationId": "\159630456656253558",
    "originatorId": "\849e6c6b420",
    "type": "\response",
    "message": "\",
    "timestamp": "\2020-08-01 17:56:06.656949",
    "status": "\200 OK"
  },
  {
    "requestId": "\23343221",
    "correlationId": "\1596304567017739720",
    "originatorId": "\849e6c6b420",
    "type": "\response",
    "message": "\{\\\"scope\\\":{\\\"qosId\\\":\\\"qos3000\\\",\\\"ueId\\\":\\\"ue3000\\\"},\\\"qosObjective\\\":{\\\"priorityLevel\\\":3000}}\\\",\\\"timestamp\\\":\\\"2020-08-01 17:56:07.017744\\\",\\\"status\\\":\\\"200 OK\\\"}",
    "timestamp": "\2020-08-01 17:56:07.017744",
    "status": "\200 OK"
  },
  {
    "requestId": "\23343221",
    "correlationId": "\1596304567017739720",
    "originatorId": "\849e6c6b420",
    "type": "\response",
    "message": "\{\\\"scope\\\":{\\\"qosId\\\":\\\"qos3100\\\",\\\"ueId\\\":\\\"ue3100\\\"},\\\"qosObjective\\\":{\\\"priorityLevel\\\":3100}}\\\",\\\"timestamp\\\":\\\"2020-08-01 17:56:07.017744\\\",\\\"status\\\":\\\"200 OK\\\"}",
    "timestamp": "\2020-08-01 17:56:07.017744",
    "status": "\200 OK"
  },
  {
    "requestId": "\23343221",
    "correlationId": "\1596304567017739720",
    "originatorId": "\849e6c6b420",
    "type": "\response",
    "message": "\{\\\"scope\\\":{\\\"qosId\\\":\\\"qos3100\\\",\\\"ueId\\\":\\\"ue3100\\\"},\\\"qosObjective\\\":{\\\"priorityLevel\\\":3200}}\\\",\\\"timestamp\\\":\\\"2020-08-01 17:56:07.017744\\\",\\\"status\\\":\\\"200 OK\\\"}",
    "timestamp": "\2020-08-01 17:56:07.017744",
    "status": "\200 OK"
  },
  {
    "requestId": "\23343221",
    "correlationId": "\1596304567017739720",
    "originatorId": "\849e6c6b420",
    "type": "\response",
    "message": "\{\\\"scope\\\":{\\\"qosId\\\":\\\"qos3102\\\",\\\"ueId\\\":\\\"ue3102\\\"},\\\"qosObjective\\\":{\\\"priorityLevel\\\":3201}}\\\",\\\"timestamp\\\":\\\"2020-08-01 17:56:07.017744\\\",\\\"status\\\":\\\"200 OK\\\"}",
    "timestamp": "\2020-08-01 17:56:07.017744",
    "status": "\200 OK"
  }
]
```

Message format

create a policy via dmaap-mr

```
{
  "apiVersion": "1.0",
  "operation": "PUT",
  "correlationId": "1596304565904621535",
  "originatorId": "849e6c6b420",
  "payload": {
    "scope": {
      "ueId": "ue3000",
      "qosId": "qos3000"
    },
    "qosObjective": {
      "priorityLevel": 3000
    }
  },
  "requestId": "23343221",
  "target": "policy-agent",
  "timestamp": "2020-08-01 17:56:05.905035",
  "type": "request",
  "url": "/policy?id=0f7bb041e1584b1fa17e87520d70a3000&ric=ric1&service=service1&type=1"
}
```