

DMaaP Bus Controller Topic and Feed provisioning support via helm

This document highlights design considered for to Provision authenticated, authorized DMaaP topics on Message Router and feeds on Data Router .

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Overview

Bus Controller is a RESTful web service used to provision DMaaP topics (on Message Router) and feeds (on Data Router), with associated authorization (on AAF).

Endpoints are used to provision :

- Authorized topic on MR, and to create and grant permission for Publishers and Subscribers.
- Feed on Data Router, with associated user authentication.
- Bus Controller API link : <https://docs.onap.org/projects/onap-dmaap-buscontroller/en/latest/apis/api.html>

Gerrit review links

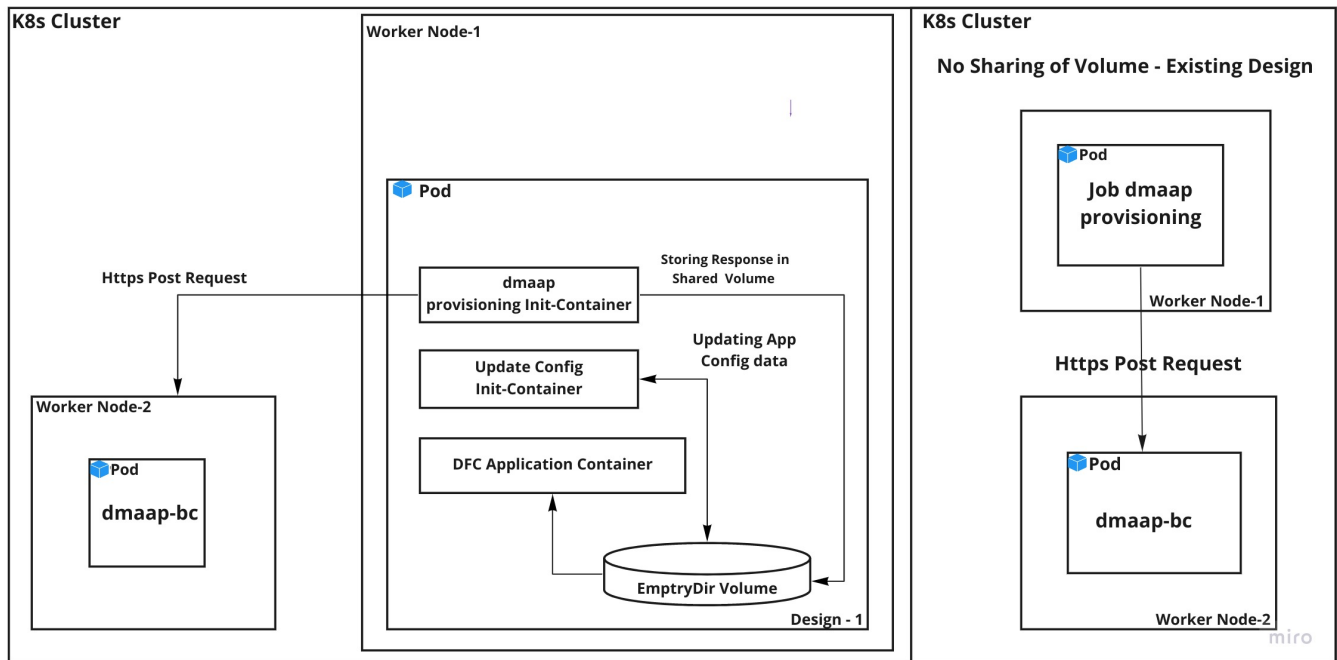
Ticket No.	Gerrit link	Comments	5gbulkpm Test Result	Status
DMAAP-1561	https://gerrit.onap.org/r/c/dmaap/buscontroller/+121543	Updated dmaap-dbc script	Pass	MERGED
DCAEGEN2-2715 (DCAE Data File Collector)	https://gerrit.onap.org/r/c/oom/+120492	To be tested with 5gBulkpm gaiting testcase	Pass	MERGED
DCAEGEN2-2714 (DCAE PM- Mapper)	https://gerrit.onap.org/r/c/oom/+120213	To be tested with 5gBulkpm gaiting testcase	Pass	MERGED

Dmaap dbc-client docker Image (onap/dmaap/dbc-client:2.0.7)

This dbc-client image is utility (containing shell script) by making use of which we can initiate HTTP REST Request towards Dmaap Bus Controller app for creating dynamic Feeds, Topics.

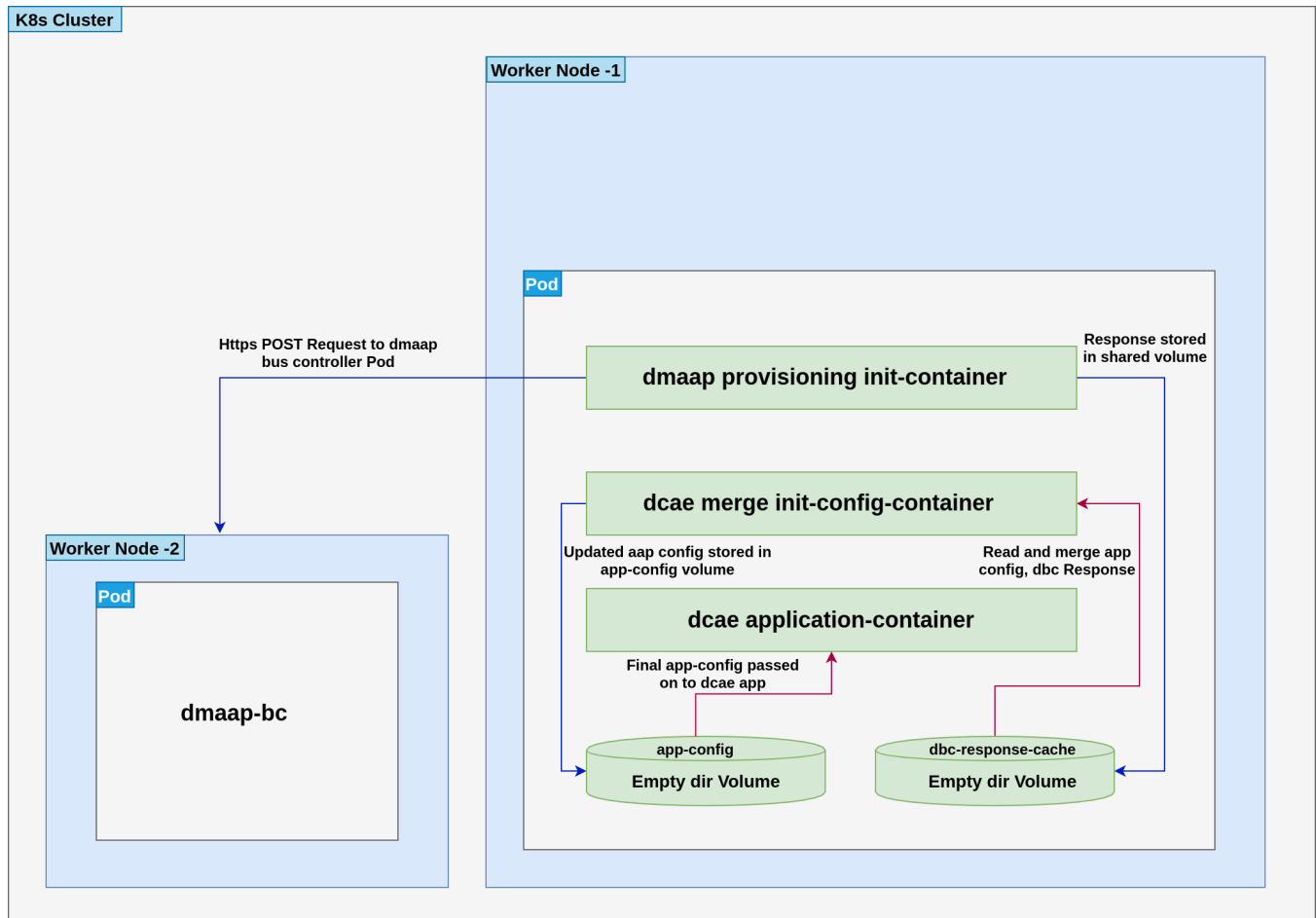
Design details

1. Existing design consist fo kubernetes Job Manifest which consist of onap/dmaap/dbc-client docker image for making http request toward dmaap-bc (Dmaap Bus Controller) pod.
2. In DCAE Design-1 highlighted in below pic is considered where we need to create drmap provisionning Init-Container which will be making use of same onap/dmaap/dbc-client docker image to make Http Rest Request towards dmap-db pod.
 - a. Once the http request is made response will be written back to shared EmptyDir voulme.
 - b. Second Init-container (Update Config) will be reading the response from share EmptyDir voulme and will merge it with application config.



Draw.io design-1 :

1. Dmaap Provisioning init-container sends POST request to Dmaap Bus-Controller Pod for creation of Topics, Feeds.
2. DCAE Merge init config container merges dcae application config and response received back from dmaap provisioning init-container.



Feed + Dr_pubs_Dr_subs Input via Values.yaml

Data Router Feed, Publisher, Subscriber creation input details.

Old approach-

```
-----
feedConfig:
  owner: dcaecm
  feedVersion: 0.0
  feedName: bulk_pm_feed
  asprClassification: unclassified
  feedDescription: DFC Feed Creation
  pubs:
    - username: dcaepub
      userpwd: tpJN3gjaAzPAiAa4
      dcaeLocationName: loc00
-----
```

New approach-

```
-----
# DataRouter Feed Configuration
drFeedConfig:
  - feedName: bulk_pm_feed
    owner: dcaecm
    feedVersion: 0.0
    asprClassification: unclassified
    feedDescription: DFC Feed Creation

# DataRouter Publisher Configuration
drPubConfig:
  - feedName: bulk_pm_feed
    dcaeLocationName: loc00

# DataRouter Subscriber Configuration
drSubConfig:
  - feedName: bulk_pm_feed
    decompress: true
    username: ${DR_USERNAME}
    userpwd: ${DR_PASSWORD}
    dcaeLocationName: loc00
    privilegedSubscriber: true
    deliveryURL: https://dcae-pm-mapper:8443/delivery

# MessageRouter Topic, Publisher Configuration
mrTopicsConfig:
  - topicName: PERFORMANCE_MEASUREMENTS
    topicDescription: PM Mapper publishes perf3gpp VES PM Events to authenticated MR topic
    owner: dcaecm
    tnxEabled: false
    clients:
      - dcaeLocationName: san-francisco
        clientRole: org.onap.dcae.pmPublisher
        action:
          - pub
          - view
-----
```

ConfigMap Configuration for Feed, Dr_Publisher

```
-----
volumes:
  - name: feeds-config
    path: /opt/app/config/feeds/
  - name: drpub-config
    path: /opt/app/config/dr_pubs/
  - name: drsub-config
    path: /opt/app/config/dr_subs/
  - name: topics-config
    path: /opt/app/config/topics
-----
```

Code snip for updating application config with dmaap DR Feed/Pub/Sub and MR Topics details.

InitContainer Code Snip

```
- name: {{ include "common.name" $dot }}-init-merge-config
image: {{ include "repositoryGenerator.image.envsubst" $dot }}
imagePullPolicy: {{ $dot.Values.global.pullPolicy | default $dot.Values.pullPolicy }}
command:
- /bin/sh
args:
- -c
- |
  if [ -d /opt/app/config/cache ]; then
    cd /opt/app/config/cache
    for file in $(ls feed*); do
      NUM=$(echo "$file" | sed 's/feedConfig-\([0-9]\+\)-resp.json/\1/')
      export DR_LOG_URL_"$NUM"=$(grep -o '"logURL":\[^\]*' "$file" | cut -d '"' -f4)
      export DR_FILES_PUBLISHER_URL_"$NUM"=$(grep -o '"publishURL":\[^\]*' "$file" | cut -d '"' -f4)
    done
    for file in $(ls drpub*); do
      NUM=$(echo "$file" | sed 's/drpubConfig-\([0-9]\+\)-resp.json/\1/')
      export DR_USERNAME_"$NUM"=$(grep -o '"username":\[^\]*' "$file" | cut -d '"' -f4)
      export DR_PASSWORD_"$NUM"=$(grep -o '"userpwd":\[^\]*' "$file" | cut -d '"' -f4)
      export DR_FILES_PUBLISHER_ID_"$NUM"=$(grep -o '"pubId":\[^\]*' "$file" | cut -d '"' -f4)
    done
    for file in $(ls drsub*); do
      NUM=$(echo "$file" | sed 's/drsubConfig-\([0-9]\+\)-resp.json/\1/')
      export DR_FILES_SUBSCRIBER_ID_"$NUM"=$(grep -o '"subId":\[^\]*' "$file" | cut -d '"' -f4)
    done
    for file in $(ls topics*); do
      NUM=$(echo "$file" | sed 's/topicsConfig-\([0-9]\+\)-resp.json/\1/')
      export MR_FILES_PUBLISHER_CLIENT_ID_"$NUM"=$(grep -o '"mrClientId":\[^\]*' "$file" | cut -d '"' -f4)
    done
  else
    echo "No Response logged for Dmaap BusController Http POST Request..."
  fi
  cd /config-input && for PFILE in `ls -l`; do envsubst <${PFILE} >/config/${PFILE}; done
env:
{{- range $cred := $dot.Values.credentials }}
- name: {{ $cred.name }}
  {{- include "common.secret.envFromSecretFast" (dict "global" $dot "uid" $cred.uid "key" $cred.key) |
nindent 4 }}
{{- end }}
volumeMounts:
- mountPath: /opt/app/config/cache
  name: dbc-response-cache
- mountPath: /config-input
  name: app-config-input
- mountPath: /config
  name: app-config
```

Container Logs

1. Log snippet collected for dmaap-bc-dmaap-provisioning container making sure it work with updated changes in dbc script.

dmaap-bc-dmaap-provisioning Log

```
$ kubectl logs -f -n onap dev-dmaap-bc-dmaap-provisioning-n9zfp

+ export 'PATH=/usr/local/bin:/bin:/usr/bin:/usr/local/sbin:/usr/sbin:/sbin'
+ RESP_CACHE=
+ RESP=/dev/null
+ APP_ROOT=/opt/app/dbc-client
+ CONFIGMAP_ROOT=/opt/app/config
+ PORT=8443
```

```

+ DBC=dmaap-bc
+ PROTO=https
+ PARAM='useExisting=true'
+ REQUESTID=dmaap-bc-dmaap-provisioning
+ URL=https://dmaap-bc:8443/webapi/
+ CA_PEM=ca.pem
+ KEY_PEM=key.pem
+ CLIENT_PEM=client.pem
+ PEM_DIR=/opt/app/osaaf/local
+ CERT_PWD='2U[iOZzMHI:.#tdCw1Bqc;}S'
+ BA_PWD='demo123456!'
+ AUTH_METHOD=basicAuth
+ BA_IDENTITY=dmaap-bc@dmaap-bc.onap.org
+ init_config
+ '[' '!' -d /opt/app/dbc-client -a '!' -d /opt/app/config ]
+ cd /opt/app/osaaf/local
+ '[' basicAuth '=' basicAuth ]
+ echo '-u dmaap-bc@dmaap-bc.onap.org:demo123456!'
+ CURL_CRED='-K /opt/app/osaaf/local/curl.cred'
+ init_dbc_provisioning
+ cd /opt/app/config
+ '[' -d dmaap ]
+ ls dmaap/onap.json
+ do_http_post dmaap/onap.json dmaap
+ RETRY_TIME=60
+ '[' -n ]
+ true
+ '[' dmaap '!=' feeds -a dmaap '!=' topics ]
+ cat dmaap/onap.json
+ envsubst
+ json_input='{
    "dmaapName": "mr",
    "drProvUrl": "https://dmaap-dr-prov",
    "version": "1",
    "topicNsRoot": "org.onap.dmaap",
    "bridgeAdminTopic": "DCAE_MM_AGENT"
}'
+ xcurl -o /dev/null -d '{
    "dmaapName": "mr",
    "drProvUrl": "https://dmaap-dr-prov",
    "version": "1",
    "topicNsRoot": "org.onap.dmaap",
    "bridgeAdminTopic": "DCAE_MM_AGENT"
}' https://dmaap-bc:8443/webapi/dmaap
+ curl -X POST -s '-K /opt/app/osaaf/local/curl.cred' -w '%{http_code}' -H 'X-ECOMP-RequestID: dmaap-bc-dmaap-provisioning' -H 'Content-Type: application/json' -o /dev/null -d '{
    "dmaapName": "mr",
    "drProvUrl": "https://dmaap-dr-prov",
    "version": "1",
    "topicNsRoot": "org.onap.dmaap",
    "bridgeAdminTopic": "DCAE_MM_AGENT"
}' https://dmaap-bc:8443/webapi/dmaap
Http Post request is successful with response code=200
+ rc=200
+ '[' 200 '=' 200 -o 200 '=' 201 -o 200 '=' 409 ]
+ echo 'Http Post request is successful with response code=200'
+ break
+ '[' -d dcaeLocations ]
+ ls dcaeLocations/san-francisco.json
+ do_http_post dcaeLocations/san-francisco.json dcaeLocations
+ RETRY_TIME=60
+ '[' -n ]
+ true
+ '[' dcaeLocations '!=' feeds -a dcaeLocations '!=' topics ]
+ cat dcaeLocations/san-francisco.json
+ envsubst
+ json_input='{

```

```

    "dcaeLayer": "kubernetes-central",
    "dcaeLocationName": "san-francisco"
  },
+ xcurl -o /dev/null -d '{

    "dcaeLayer": "kubernetes-central",
    "dcaeLocationName": "san-francisco"
  }' https://dmaap-bc:8443/webapi/dcaeLocations
+ curl -X POST -s -K /opt/app/osaaf/local/curl.cred' -w '%{http_code}' -H 'X-ECOMP-RequestID: dmaap-bc-dmaap-
provisioning' -H 'Content-Type: application/json' -o /dev/null -d '{

    "dcaeLayer": "kubernetes-central",
    "dcaeLocationName": "san-francisco"
  }' https://dmaap-bc:8443/webapi/dcaeLocations
+ rc=201
+ '[' 201 '=' 200 -o 201 '=' 201 -o 201 '=' 409 ]
+ echo 'Http Post request is successful with response code=201'
+ break
+ '[' -d mr_clusters ]
Http Post request is successful with response code=201
+ ls mr_clusters/san-francisco.json
+ do_http_post mr_clusters/san-francisco.json mr_clusters
+ RETRY_TIME=60
+ '[' -n ]
+ true
+ '[' mr_clusters != feeds -a mr_clusters != topics ]
+ cat mr_clusters/san-francisco.json
+ envsubst
+ json_input='{
    "dcaeLocationName": "san-francisco",
    "fqdn": "message-router",
    "topicProtocol": "http",
    "topicPort": "3904"
  }'
+ xcurl -o /dev/null -d '{
    "dcaeLocationName": "san-francisco",
    "fqdn": "message-router",
    "topicProtocol": "http",
    "topicPort": "3904"
  }' https://dmaap-bc:8443/webapi/mr_clusters
+ curl -X POST -s -K /opt/app/osaaf/local/curl.cred' -w '%{http_code}' -H 'X-ECOMP-RequestID: dmaap-bc-dmaap-
provisioning' -H 'Content-Type: application/json' -o /dev/null -d '{
    "dcaeLocationName": "san-francisco",
    "fqdn": "message-router",
    "topicProtocol": "http",
    "topicPort": "3904"
  }' https://dmaap-bc:8443/webapi/mr_clusters
+ rc=201
+ '[' 201 '=' 200 -o 201 '=' 201 -o 201 '=' 409 ]
+ echo 'Http Post request is successful with response code=201'
+ break
+ '[' -d topics ]
Http Post request is successful with response code=201
+ ls topics/PNF_READY.json topics/PNF_REGISTRATION.json topics/mirrormakeragent.json
+ do_http_post topics/PNF_READY.json topics
+ RETRY_TIME=60
+ '[' -n ]
+ true
+ '[' topics != feeds -a topics != topics ]
+ xcurl -o /dev/null -d @topics/PNF_READY.json 'https://dmaap-bc:8443/webapi/topics/?useExisting=true'
+ curl -X POST -s -K /opt/app/osaaf/local/curl.cred' -w '%{http_code}' -H 'X-ECOMP-RequestID: dmaap-bc-dmaap-
provisioning' -H 'Content-Type: application/json' -o /dev/null -d @topics/PNF_READY.json 'https://dmaap-bc:8443
/webapi/topics/?useExisting=true'
Http Post request for feed creation is successful with response code=201
+ rc=201
+ '[' 201 '=' 200 -o 201 '=' 201 -o 201 '=' 409 ]
+ echo 'Http Post request for feed creation is successful with response code=201'
+ break
+ do_http_post topics/PNF_REGISTRATION.json topics
+ RETRY_TIME=60
+ '[' -n ]

```

```

+ true
+ '[' topics '!=' feeds -a topics '!=' topics ]
+ xcurl -o /dev/null -d @topics/PNF_REGISTRATION.json 'https://dmaap-bc:8443/webapi/topics/?useExisting=true'
+ curl -X POST -s -K /opt/app/osaaf/local/curl.cred' -w '%{http_code}' -H 'X-ECOMP-RequestID: dmaap-bc-dmaap-
provisioning' -H 'Content-Type: application/json' -o /dev/null -d @topics/PNF_REGISTRATION.json 'https://dmaap-
bc:8443/webapi/topics/?useExisting=true'
+ rc=201
+ '[' 201 '=' 200 -o 201 '=' 201 -o 201 '=' 409 ]
+ echo 'Http Post request for feed creation is successful with response code=201'
+ break
Http Post request for feed creation is successful with response code=201
+ do_http_post topics/mirrormakeragent.json topics
+ RETRY_TIME=60
+ '[' -n ]
+ true
+ '[' topics '!=' feeds -a topics '!=' topics ]
+ xcurl -o /dev/null -d @topics/mirrormakeragent.json 'https://dmaap-bc:8443/webapi/topics/?useExisting=true'
+ curl -X POST -s -K /opt/app/osaaf/local/curl.cred' -w '%{http_code}' -H 'X-ECOMP-RequestID: dmaap-bc-dmaap-
provisioning' -H 'Content-Type: application/json' -o /dev/null -d @topics/mirrormakeragent.json 'https://dmaap-
bc:8443/webapi/topics/?useExisting=true'
Http Post request for feed creation is successful with response code=201
+ rc=201
+ '[' 201 '=' 200 -o 201 '=' 201 -o 201 '=' 409 ]
+ echo 'Http Post request for feed creation is successful with response code=201'
+ break
+ '[' -d mr_clients ]
+ '[' -d dr_nodes ]
+ ls 'dr_nodes/*.json'
ls: dr_nodes/*.json: No such file or directory
+ '[' -d feeds ]
+ ls 'feeds/*.json'
ls: feeds/*.json: No such file or directory
+ '[' -d dr_pubs ]
+ '[' -d dr_subs ]

```

2. Log snippet from dcae-datafile-collector initContainer dcae-datafile-collector-init-dmaap-provisioning for creation of Feeds and Dr Publisher.

dcae-datafile-collector initContainer dcae-datafile-collector-init-dmaap-provisioning Log

```

$ kubectl logs -f -n onap dev-dcae-datafile-collector-d996487db-6wdjb -c dcae-datafile-collector-init-dmaap-
provisioning

+ export 'PATH=/usr/local/bin:/bin:/usr/bin:/usr/local/sbin:/usr/sbin:/sbin'
+ RESP_CACHE=/opt/app/config/cache
+ RESP=/dev/null
+ APP_ROOT=/opt/app/dbc-client
+ CONFIGMAP_ROOT=/opt/app/config
+ PORT=8443
+ DBC=dmaap-bc
+ PROTO=https
+ PARAM='useExisting=true'
+ REQUESTID=dcae-datafile-collector-dmaap-provisioning
+ URL=https://dmaap-bc:8443/webapi/
+ CA_PEM=ca.pem
+ KEY_PEM=key.pem
+ CLIENT_PEM=client.pem
+ PEM_DIR=/opt/app/osaaf/local
+ CERT_PWD='2U[iOZzMHI:.#tdCw1Bqc;}S'
+ BA_PWD='demo123456!'
+ AUTH_METHOD=basicAuth
+ BA_IDENTITY=dmaap-bc@dmaap-bc.onap.org
+ init_config
+ '[' '!' -d /opt/app/dbc-client -a '!' -d /opt/app/config ]
+ cd /opt/app/osaaf/local
+ '[' basicAuth '=' basicAuth ]
+ echo '-u dmaap-bc@dmaap-bc.onap.org:demo123456!'
+ CURL_CRED='-K /opt/app/osaaf/local/curl.cred'
+ init_dbc_provisioning
+ cd /opt/app/config

```

```

+ '[' -d dmaap ]
+ '[' -d dcaeLocations ]
+ '[' -d mr_clusters ]
+ '[' -d topics ]
+ '[' -d mr_clients ]
+ '[' -d dr_nodes ]
+ '[' -d feeds ]
+ ls feeds/feedConfig-0.json
+ do_http_post feeds/feedConfig-0.json feeds
+ RETRY_TIME=60
+ '[' -n /opt/app/config/cache ]
+ cut -d . -f1
+ echo feedConfig-0.json
+ RESP=/opt/app/config/cache/feedConfig-0-resp.json
+ true
+ '[' feeds '!=' feeds -a feeds '!=' topics ]
+ xcurl -o /opt/app/config/cache/feedConfig-0-resp.json -d @feeds/feedConfig-0.json 'https://dmaap-bc:8443/webapi/feeds/?useExisting=true'
+ curl -X POST -s '-K /opt/app/osaaf/local/curl.cred' -w '%{http_code}' -H 'X-ECOMP-RequestID: dcae-datafile-collector-dmaap-provisioning' -H 'Content-Type: application/json' -o /opt/app/config/cache/feedConfig-0-resp.json -d @feeds/feedConfig-0.json 'https://dmaap-bc:8443/webapi/feeds/?useExisting=true'
Http Post request for feed creation is successful with response code=200
+ rc=200
+ '[' 200 '=' 200 -o 200 '=' 201 -o 200 '=' 409 ]
+ echo 'Http Post request for feed creation is successful with response code=200'
+ break
+ '[' -d dr_pubs ]
+ ls dr_pubs/drpubConfig-0.json
+ do_http_post dr_pubs/drpubConfig-0.json dr_pubs
+ RETRY_TIME=60
+ '[' -n /opt/app/config/cache ]
+ echo drpubConfig-0.json
+ cut -d . -f1
+ RESP=/opt/app/config/cache/drpubConfig-0-resp.json
+ true
+ '[' dr_pubs '!=' feeds -a dr_pubs '!=' topics ]
+ cat dr_pubs/drpubConfig-0.json
+ envsubst
+ json_input='{ "dcaeLocationName": "loc00", "feedName": "bulk_pm_feed" }'
+ xcurl -o /opt/app/config/cache/drpubConfig-0-resp.json -d '{ "dcaeLocationName": "loc00", "feedName": "bulk_pm_feed" }' https://dmaap-bc:8443/webapi/dr_pubs
+ curl -X POST -s '-K /opt/app/osaaf/local/curl.cred' -w '%{http_code}' -H 'X-ECOMP-RequestID: dcae-datafile-collector-dmaap-provisioning' -H 'Content-Type: application/json' -o /opt/app/config/cache/drpubConfig-0-resp.json -d '{ "dcaeLocationName": "loc00", "feedName": "bulk_pm_feed" }' https://dmaap-bc:8443/webapi/dr_pubs
+ rc=201
+ '[' 201 '=' 200 -o 201 '=' 201 -o 201 '=' 409 ]
+ echo 'Http Post request is successful with response code=201'
+ break
+ '[' -d dr_subs ]
Http Post request is successful with response code=201

```

3. Log snippet from dcae-pm-mapper initContainer dcae-pm-mapper-init-dmaap-provisioning for creation of Feeds and Dr Subscriber and MessageRouter Topics.

dcae-pm-mapper initContainer dcae-pm-mapper-init-dmaap-provisioning Log

```

$ kubectl logs -f -n onap dev-dcae-pm-mapper-6d84cb4757-mljn9 -c dcae-pm-mapper-init-dmaap-provisioning

+ export 'PATH=/usr/local/bin:/bin:/usr/bin:/usr/local/sbin:/usr/sbin:/sbin'
+ RESP_CACHE=/opt/app/config/cache
+ RESP=/dev/null
+ APP_ROOT=/opt/app/dbc-client
+ CONFIGMAP_ROOT=/opt/app/config
+ PORT=8443
+ DBC=dmaap-bc
+ PROTO=https
+ PARAM='useExisting=true'
+ REQUESTID=dcae-pm-mapper-dmaap-provisioning

```



```

+ URL=https://dmaap-bc:8443/webapi/
+ CA_PEM=ca.pem
+ KEY_PEM=key.pem
+ CLIENT_PEM=client.pem
+ PEM_DIR=/opt/app/osaaf/local
+ CERT_PWD='2U[iOZzMHI:.#tdCw1Bqc;}S'
+ BA_PWD='demo123456!'
+ AUTH_METHOD=basicAuth
+ BA_IDENTITY=dmaap-bc@dmaap-bc.onap.org
+ init_config
+ '[' '!' -d /opt/app/dbc-client -a '!' -d /opt/app/config ]
+ cd /opt/app/osaaf/local
+ '[' basicAuth '=' basicAuth ]
+ echo '-u dmaap-bc@dmaap-bc.onap.org:demo123456!'
+ CURL_CRED='-K /opt/app/osaaf/local/curl.cred'
+ init_dbc_provisioning
+ cd /opt/app/config
+ '[' -d dmaap ]
+ '[' -d dcaeLocations ]
+ '[' -d mr_clusters ]
+ '[' -d topics ]
+ ls topics/topicsConfig-0.json
+ do_http_post topics/topicsConfig-0.json topics
+ RETRY_TIME=60
+ '[' -n /opt/app/config/cache ]
+ echo+ topicsConfig-0.json
cut -d . -f1
+ RESP=/opt/app/config/cache/topicsConfig-0-resp.json
+ true
+ '[' topics '!=' feeds -a topics '!=' topics ]
+ xcurl -o /opt/app/config/cache/topicsConfig-0-resp.json -d @topics/topicsConfig-0.json 'https://dmaap-bc:8443/webapi/topics/?useExisting=true'
+ curl -X POST -s '-K /opt/app/osaaf/local/curl.cred' -w '%{http_code}' -H 'X-ECOMP-RequestID: dcae-pm-mapper-dmaap-provisioning' -H 'Content-Type: application/json' -o /opt/app/config/cache/topicsConfig-0-resp.json -d @topics/topicsConfig-0.json 'https://dmaap-bc:8443/webapi/topics/?useExisting=true'
+ rc=201
+ '[' 201 '=' 200 -o 201 '=' 201 -o 201 '=' 409 ]
+ echo 'Http Post request for feed creation is successful with response code=201'
+ break
+ '[' -d mr_clients ]
+ '[' -d dr_nodes ]
+ '[' -d feeds ]
Http Post request for feed creation is successful with response code=201
+ ls feeds/feedConfig-0.json
+ do_http_post feeds/feedConfig-0.json feeds
+ RETRY_TIME=60
+ '[' -n /opt/app/config/cache ]
+ echo feedConfig-0.json
+ cut -d . -f1
+ RESP=/opt/app/config/cache/feedConfig-0-resp.json
+ true
+ '[' feeds '!=' feeds -a feeds '!=' topics ]
+ xcurl -o /opt/app/config/cache/feedConfig-0-resp.json -d @feeds/feedConfig-0.json 'https://dmaap-bc:8443/webapi/feeds/?useExisting=true'
+ curl -X POST -s '-K /opt/app/osaaf/local/curl.cred' -w '%{http_code}' -H 'X-ECOMP-RequestID: dcae-pm-mapper-dmaap-provisioning' -H 'Content-Type: application/json' -o /opt/app/config/cache/feedConfig-0-resp.json -d @feeds/feedConfig-0.json 'https://dmaap-bc:8443/webapi/feeds/?useExisting=true'
+ rc=200
+ '[' 200 '=' 200 -o 200 '=' 201 -o 200 '=' 409 ]
+ echo 'Http Post request for feed creation is successful with response code=200'
+ break
+ '[' -d dr_pubs ]
+ '[' -d dr_subs ]
Http Post request for feed creation is successful with response code=200
+ ls dr_subs/drsubConfig-0.json
+ do_http_post dr_subs/drsubConfig-0.json dr_subs
+ RETRY_TIME=60
+ '[' -n /opt/app/config/cache ]
+ echo drsubConfig-0.json
+ cut -d . -f1
+ RESP=/opt/app/config/cache/drsubConfig-0-resp.json

```

```

+ true
+ '[' dr_subs '!=' feeds -a dr_subs '!=' topics ]
+ cat dr_subs/drsubConfig-0.json
+ envsubst
+ json_input='{ "dcaeLocationName": "loc00", "decompress": true, "deliveryURL": "https://dcae-pm-mapper:8443
/delivery", "feedName": "bulk_pm_feed", "privilegedSubscriber": true, "username": "username", "userpwd": "password" }'
+ xcurl -o /opt/app/config/cache/drsubConfig-0-resp.json -d '{ "dcaeLocationName": "loc00", "decompress": true, "
deliveryURL": "https://dcae-pm-mapper:8443/delivery", "feedName": "bulk_pm_feed", "privilegedSubscriber": true, "
username": "username", "userpwd": "password" }' https://dmaap-bc:8443/webapi/dr_subs
+ curl -X POST -s '-K /opt/app/osaaf/local/curl.cred' -w '%{http_code}' -H 'X-ECOMP-RequestID: dcae-pm-mapper-
dmaap-provisioning' -H 'Content-Type: application/json' -o /opt/app/config/cache/drsubConfig-0-resp.json -d
'{ "dcaeLocationName": "loc00", "decompress": true, "deliveryURL": "https://dcae-pm-mapper:8443/delivery", "feedName": "
bulk_pm_feed", "privilegedSubscriber": true, "username": "username", "userpwd": "password" }' https://dmaap-bc:8443
/webapi/dr_subs
Http Post request is successful with response code=201
+ rc=201
+ '[' 201 '=' 200 -o 201 '=' 201 -o 201 '=' 409 ]
+ echo 'Http Post request is successful with response code=201'
+ break

```

4. GET Request for DR Feeds, MR Topics from Bus Controller API.

GET Request for Feeds from BusController

```

1. >> GET : https://172.16.0.70:30242/webapi/feeds/
[
  {
    "lastMod": 1625906852119,
    "status": "VALID",
    "feedId": "1",
    "feedName": "bulk_pm_feed",
    "feedVersion": "0",
    "feedDescription": "DFC Feed Creation",
    "owner": "dcaecm",
    "asprClassification": "unclassified",
    "publishURL": "https://dmaap-dr-prov/publish/1",
    "subscribeURL": "https://dmaap-dr-prov/subscribe/1",
    "suspended": false,
    "logURL": "https://dmaap-dr-prov/feedlog/1",
    "formatUuid": null,
    "pubs": [
      {
        "lastMod": 1625906852105,
        "status": "VALID",
        "dcaeLocationName": "loc00",
        "username": "tmp_edftprplxki85pw",
        "userpwd": "gi6nvqz4skzepal",
        "feedId": "1",
        "pubId": "1.da72f",
        "feedName": null,
        "feedVersion": null,
        "statusValid": true
      },
      {
        "lastMod": 1625906851630,
        "status": "VALID",
        "dcaeLocationName": "san-francisco",
        "username": "tmp_rmu408ke6c47cjd",
        "userpwd": "3ae2ahymjl6sndw",
        "feedId": "1",
        "pubId": "1.9hl81",
        "feedName": null,
        "feedVersion": null,
        "statusValid": true
      }
    ],
    "subs": [
      {
        "lastMod": 1625906974644,

```

```

        "status": "VALID",
        "dcaeLocationName": "loc00",
        "username": "username",
        "userpwd": "password",
        "feedId": "1",
        "deliveryURL": "https://dcae-pm-mapper:8443/delivery",
        "logURL": "https://dmaap-dr-prov/sublog/1",
        "subId": "1",
        "use100": false,
        "suspended": false,
        "owner": "DGL",
        "guaranteedDelivery": false,
        "guaranteedSequence": false,
        "privilegedSubscriber": true,
        "decompress": true,
        "feedName": null,
        "feedVersion": null,
        "statusValid": true
    }
},
"bytes":
"eyJyYW1lIjogImJlbGtfcGlZmVlZCIsICJ2ZXJzaW9uIjogIjAiLCAiZGVzY3JpcHRpb24iOiAiREZDIEZlZWQgQ3JlYXRpb24iLCAiY3VzcGVuZCI6IGZhbHNlLCAiYXV0aG9yaXphdGlvbiI6IHsgImNsYXNzaWZpY2F0aW9uIjogInVuY2xhc3NpZml1ZCIsICJlbmRwb2ludF9hZGRycyI6IFTdLCJlbmRwb2ludF9pZHMhOiBbCXsiaWQiOiAidGlxZWk2VnRwcnBseGtpODVwdyIsInBhc3N3b3JkIjogImdpNm52cXo0c2t6ZXhBMStJ9CSx7ImllkIjogInRtcF9ybXU0MDhrZTZjNDdjamQlLCJwYXNzd29yZCI6ICZlYWUyYWh5bWpsNnNuZHCifV19fQ==",
        "statusValid": true
    }
}
]

```

2. >> GET Topics : https://172.16.0.70:30242/webapi/topics/

```

[
    {
        "lastMod": 1625906819480,
        "status": "VALID",
        "fqtn": "org.onap.dmaap.mr.PNF_REGISTRATION",
        "topicName": "PNF_REGISTRATION",
        "topicDescription": "the VES collector will be publishing pnfRegistration events in this topic",
        "tnxEnabled": "false",
        "owner": "VEScollector",
        "formatUuid": null,
        "replicationCase": "REPLICATION_NONE",
        "globalMrURL": null,
        "fqtnStyle": null,
        "version": null,
        "partitionCount": "2",
        "replicationCount": "1",
        "publisherRole": "org.onap.dmaap.mr.PNF_REGISTRATION.publisher",
        "subscriberRole": "org.onap.dmaap.mr.PNF_REGISTRATION.subscriber",
        "clients": [
            {
                "lastMod": 1625906820030,
                "status": "VALID",
                "dcaeLocationName": "san-francisco",
                "topicURL": "http://message-router:3904/events/org.onap.dmaap.mr.PNF_REGISTRATION",
                "fqtn": "org.onap.dmaap.mr.PNF_REGISTRATION",
                "clientRole": "org.onap.dmaap.mr.PNF_REGISTRATION.sub",
                "action": [
                    "sub",
                    "view"
                ],
                "mrClientId": "1625906820030",
                "clientIdentity": null,
                "publisher": false,
                "subscriber": true,
                "statusValid": true
            }
        ],
        "numClients": 1,
        "bytes":
"eyJyYW1lIjogIm9yZy5vbmFwLmRtYWFWLmlyLlB0Rl9SRUdJU1RSQVRJT04iLCAiZGVzY3VzcGVuZCI6IGZhbHNlLCAiYXV0aG9yaXphdGlvbiI6IHsgImNsYXNzaWZpY2F0aW9uIjogInVuY2xhc3NpZml1ZCIsICJlbmRwb2ludF9hZGRycyI6IFTdLCJlbmRwb2ludF9pZHMhOiBbCXsiaWQiOiAidGlxZWk2VnRwcnBseGtpODVwdyIsInBhc3N3b3JkIjogImdpNm52cXo0c2t6ZXhBMStJ9CSx7ImllkIjogInRtcF9ybXU0MDhrZTZjNDdjamQlLCJwYXNzd29yZCI6ICZlYWUyYWh5bWpsNnNuZHCifV19fQ==",
        "statusValid": true
    }
]

```

```
gIjIiLCAicmVwbGljYXRpb25Db3VudCI6ICIXIiB9IA==",
  "statusValid": true
},
{
  "lastMod": 1625906820603,
  "status": "VALID",
  "fqtn": "org.onap.dmaap.mr.mirrormakeragent",
  "topicName": "mirrormakeragent",
  "topicDescription": "the topic used to provision the MM agent whitelist",
  "tnxEnabled": "false",
  "owner": "dmaap",
  "formatUuid": null,
  "replicationCase": "REPLICATION_NONE",
  "globalMrURL": null,
  "fqtnStyle": null,
  "version": null,
  "partitionCount": "1",
  "replicationCount": "1",
  "publisherRole": "org.onap.dmaap.mr.mirrormakeragent.publisher",
  "subscriberRole": "org.onap.dmaap.mr.mirrormakeragent.subscriber",
  "clients": [
    {
      "lastMod": 1625906821157,
      "status": "VALID",
      "dcaeLocationName": "san-francisco",
      "topicURL": "http://message-router:3904/events/org.onap.dmaap.mr.mirrormakeragent",
      "fqtn": "org.onap.dmaap.mr.mirrormakeragent",
      "clientRole": null,
      "action": [
        "pub",
        "sub",
        "view"
      ],
      "mrClientId": "1625906821157",
      "clientIdentity": "dmaap-bc-mm-prov@dmaap-bc-mm-prov.onap.org",
      "publisher": true,
      "subscriber": true,
      "statusValid": true
    },
    {
      "lastMod": 1625906827509,
      "status": "VALID",
      "dcaeLocationName": "san-francisco",
      "topicURL": "http://message-router:3904/events/org.onap.dmaap.mr.mirrormakeragent",
      "fqtn": "org.onap.dmaap.mr.mirrormakeragent",
      "clientRole": null,
      "action": [
        "pub",
        "sub",
        "view"
      ],
      "mrClientId": "1625906827509",
      "clientIdentity": "demo@people.osaaf.org",
      "publisher": true,
      "subscriber": true,
      "statusValid": true
    },
    {
      "lastMod": 1625906826491,
      "status": "VALID",
      "dcaeLocationName": "san-francisco",
      "topicURL": "http://message-router:3904/events/org.onap.dmaap.mr.mirrormakeragent",
      "fqtn": "org.onap.dmaap.mr.mirrormakeragent",
      "clientRole": null,
      "action": [
        "pub",
        "sub",
        "view"
      ],
      "mrClientId": "1625906826491",
      "clientIdentity": "dmaap-bc-topic-mgr@dmaap-bc-topic-mgr.onap.org",
```

```

        "publisher": true,
        "subscriber": true,
        "statusValid": true
    }
],
    "numClients": 3,
    "bytes":
"eyJhZG9waWNOYWllIjogIm9yZy5vbmFwLmRtYWFWLmlyLm1pcnJvcmlha2VyYWdlbnQiLCJ0aGUgdG9waWwgdXNlZCB0byBwcm92aXNpb24gdGhlIE1NIGFnZW50IHdoaXRlbGlzdCIscjYwYXJ0aXRpb25Db3VudCI6IClxiWwInJlcGxpY2F0aW9uQ291bnQ
iOiAiMSIgfSA=",
    "statusValid": true
},
{
    "lastMod": 1625906971092,
    "status": "VALID",
    "fqtn": "org.onap.dmaap.mr.PERFORMANCE_MEASUREMENTS",
    "topicName": "PERFORMANCE_MEASUREMENTS",
    "topicDescription": "PM Mapper publishes perf3gpp VES PM Events to authenticated MR topic",
    "tnxEnabled": "false",
    "owner": "dcaecm",
    "formatUuid": null,
    "replicationCase": "REPLICATION_NONE",
    "globalMrURL": null,
    "fqtnStyle": null,
    "version": null,
    "partitionCount": "2",
    "replicationCount": "1",
    "publisherRole": "org.onap.dmaap.mr.PERFORMANCE_MEASUREMENTS.publisher",
    "subscriberRole": "org.onap.dmaap.mr.PERFORMANCE_MEASUREMENTS.subscriber",
    "clients": [
        {
            "lastMod": 1625906971956,
            "status": "VALID",
            "dcaeLocationName": "san-francisco",
            "topicURL": "http://message-router:3904/events/org.onap.dmaap.mr.PERFORMANCE_MEASUREMENTS",
            "fqtn": "org.onap.dmaap.mr.PERFORMANCE_MEASUREMENTS",
            "clientRole": "org.onap.dcae.pmPublisher",
            "action": [
                "pub",
                "view"
            ],
            "mrClientId": "1625906971956",
            "clientIdentity": null,
            "publisher": true,
            "subscriber": false,
            "statusValid": true
        }
    ],
    "numClients": 1,
    "bytes":
"eyJhZG9waWNOYWllIjogIm9yZy5vbmFwLmRtYWFWLmlyLlBFUkZPUk1BTkNFX01FQVNVUkVNRU5UUyIsICJ0b3BpY0Rlc2NyaXB0aW9uIjogIlB
NIElhcHBldiBwdWJsaXNoZXMgcGVyZjNncHAgVkVtIFBNIkV2ZW50cyB0byBhdXR0ZW50aWwNdGVkIE1SIHRvcGljiWwInBhcnRpdGlvbnNvdW5
0IjogIjIiLCJ0aW9uQ291bnQ="
    "statusValid": true
},
{
    "lastMod": 1625906816791,
    "status": "VALID",
    "fqtn": "org.onap.dmaap.mr.PNF_READY",
    "topicName": "PNF_READY",
    "topicDescription": "This topic will be used to publish the PNF_READY events generated by the PNF
Registration Handler service in the DCAE platform.",
    "tnxEnabled": "false",
    "owner": "PNFRegistrationHandler",
    "formatUuid": null,
    "replicationCase": "REPLICATION_NONE",
    "globalMrURL": null,
    "fqtnStyle": null,
    "version": null,
    "partitionCount": "2",
    "replicationCount": "1",

```

```

"publisherRole": "org.onap.dmaap.mr.PNF_READY.publisher",
"subscriberRole": "org.onap.dmaap.mr.PNF_READY.subscriber",
"clients": [
  {
    "lastMod": 1625906817506,
    "status": "VALID",
    "dcaeLocationName": "san-francisco",
    "topicURL": "http://message-router:3904/events/org.onap.dmaap.mr.PNF_READY",
    "fqtn": "org.onap.dmaap.mr.PNF_READY",
    "clientRole": "org.onap.dmaap.mr.PNF_READY.pub",
    "action": [
      "pub",
      "view"
    ],
    "mrClientId": "1625906817506",
    "clientIdentity": null,
    "publisher": true,
    "subscriber": false,
    "statusValid": true
  }
],
"numClients": 1,
"bytes":
"eyJhdG9waWNOYWllIjogIm9yZy5vbWFWLmRtYWFWLmlyLlBORl9SRUFEWSEsICJ0b3BpY0Rlc2NyaXB0aW9uIjogIlRoXmGdG9waWMgd2lsbCBiZSB1c2VkiHRvIHBlYmxpc2ggdGhlIFBORl9SRUFEWSEsBldmVudHMgZ2VuZXJhdGVkIGJ5IHROZSBQTkYgUkVnaXN0cmF0aW9uIEhhbmRsZXIgc2VydmljZSBpb3B0aGUgUGRENBRSBwbGF0Zm9yYyS4iLCAicGFydG10aW9uQ291bnQiOiAiMiIsICJyZXBSaWNhdGlvbkNvdW50IjogIjEiIH0g",
  "statusValid": true
}
]

```

Test details

1. Create Sftp server.
2. Upload PM Files to xNF SFTP Server.
3. Send File Ready Event to VES Collector.
4. Verify Ves Collector logs for Event send to unauthenticated.VES_NOTIFICATION_OUTPUT : [Ves Collector log file](#).
5. Verify Data File Collector Logs if it contains message > Publishing file A1625946870.67.xml.gz to DR successful! : [DFC log file](#).
6. Verify PM-Mapper log if it contains > org.onap.dcae.gen2.services.pmmapper.messagerouter.VESPublisher. Successfully published VES events to messagerouter : [Pm-Mapper log file](#).
7. Verify Message-Router log if it contains [Publisher Log Details](#) : [publisherId=dcae, topicId=org.onap.dmaap.mr.PERFORMANCE_MEASUREMENTS, messageTimestamp=null, publisherIp=10.42.6.27, messageBatchId=10072021195549, messageSequence=1, messageLengthInBytes=2530, transactionEnabled=true, transactionId=10-07-2021::07:55:44:917::10.42.6.27::10072021195549::1, publishTimestamp=10-07-2021::07:55:44:918, serverIp=10.42.3.28]

Improvements

1. Datafile Collector not sending dr publisher credentials as secret.