

Dmaap Plugin Integration

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DCAE Platform support dynamic topic/feed provisioning through usage for DMAap plugin which interfaces with Dmaap-DBCL component to carry out this request and provision AAF based topic/feed; once the provisioning is completed, the corresponding configuration are returned back for MS (as configuration in consul)

Overview

<Brief write on how plugin is invoked and internal of plugin work flow>

The dmaap-plugin is invoked via k8s plugin or docker plugin. There are several test blueprints that you can run to test the DMAap-plugin in ONAP environment.

Dmaap Plugin Dependencies

<components and configuration required for this plugin in ONAP DCAE eg Consul, Cloudify, Dmaap-DBCL, DMAAP>

Running the dmaap-plugin depends on the setup of Consul, Cloudify, Dmaap-DBCL, and AAF in ONAP environment. In the following discussion we assume that the Consul, Cloudify, DMAap-DBCL and AAF are already set up.

Blueprints

<list all the test blueprint along with small description on what the scope of each blueprints>

All test blueprint should be uploaded into https://git.onap.org/dcaegen2/platform/blueprints/tree/reference_templates

Currently we have the following blueprints:

- test_mr_pubsub_extra.yaml
- test_mr_pubsub.yaml
- test_mr_multipub.yaml
- test_mr_multisub.yaml
- test_dr_pubsub.yaml
- test_dr_mr.yaml

In the following discussion we assume that you already download these test scripts into /blueprints/ directory on the test VM. (We loaded the blueprints manually in our test.)

Test Setup

<env dependencies; and pre-requisite for testing + any data load (e.g location details + consul load)>

Pre-requisite for running the test blueprints:

1) Add the following key/value into consul with "dmaap-plugin" as the key.

Note: This step might not be needed, in particular *"protocol" : "http"* can cause a problem with dmaap-bc connection. Default configuration will be added into consul upon Cloudify Container deployment.

```
{
  "dmaap" :
  {
    "username": "whatever",
    "password": "whatever",
    "owner" : "dcaeorch",
    "protocol" : "http"
  }
}
```

2) (With the help of DBCL owner) add location *san-francisco* into DMAap DBCL if the location is not in there yet.

Deployment Steps

<steps for running blueprint listed earlier >

For each of the test blueprints, run the following commands:

- **cfy install -b <blueprint-id> -d <deployment-id> <blueprint_name>**

where <blueprint-id> and <deployment-id> can be any string choose by the user.

During deployment, Monitor the output of deployment for error messages.

After the blueprint is successfully deployed, check the DMAap DBCL url to verify the configuration. (*Detailed commands are described later.*)

After validation, uninstall the blueprint with the following command:

- **cfy uninstall <deployment_id>**

Recheck the DMAap DBCL url to verify that the previous configuration is deleted from DMAap DBCL.

Notice: *since most of the blueprints reuse the same topic name(s) and feed name, please uninstall the current blueprint before testing the next one.*

For example, the screen output of deploying/verifying *test_mr_pubsub_extra.yaml* is as follows:

```
[root@dev-dcaegen2-dcae-bootstrap-55cb5596b7-phdct blueprints]# cfy install -b test0 -d test0 -i dmaap_inputs.yaml test_mr_pubsub.yaml
```

Uploading blueprint test_mr_pubsub.yaml...

test_mr_pubsub.yaml |#####| 100.0%

Blueprint uploaded. The blueprint's id is test0

Creating new deployment from blueprint test0...

Deployment created. The deployment's id is test0

Executing workflow install on deployment test0 [timeout=900 seconds]

Deployment environment creation is pending...

2019-05-10 23:09:54.252 CFY <test0> Starting 'create_deployment_environment' workflow execution

2019-05-10 23:09:54.881 CFY <test0> Installing deployment plugins

2019-05-10 23:09:54.881 CFY <test0> Sending task 'cloudify_agent.operations.install_plugins'

2019-05-10 23:09:54.881 CFY <test0> Task started 'cloudify_agent.operations.install_plugins'

2019-05-10 23:09:55.568 LOG <test0> INFO: Installing plugin: k8s

2019-05-10 23:09:56.181 LOG <test0> INFO: Using existing installation of managed plugin: 99e0f852-a688-4ecf-b606-37df263f6fa0
[package_name: k8splugin, package_version: 1.4.13, supported_platform: linux_x86_64, distribution: centos, distribution_release: core]

2019-05-10 23:09:56.181 LOG <test0> INFO: Installing plugin: dmaapplugin

2019-05-10 23:09:57.576 LOG <test0> INFO: Using existing installation of managed plugin: d8abab9c-2e52-4caa-a9fe-d74bf24609ad
[package_name: dmaap, package_version: 1.3.2, supported_platform: any]

2019-05-10 23:09:57.576 CFY <test0> Task succeeded 'cloudify_agent.operations.install_plugins'

2019-05-10 23:09:57.576 CFY <test0> Skipping starting deployment policy engine core - no policies defined

2019-05-10 23:09:57.576 CFY <test0> Creating deployment work directory

2019-05-10 23:09:57.576 CFY <test0> 'create_deployment_environment' workflow execution succeeded

2019-05-10 23:10:01.752 CFY <test0> Starting 'install' workflow execution

2019-05-10 23:10:03.571 CFY <test0> [topic01_xjti5i] Creating node instance

2019-05-10 23:10:04.268 CFY <test0> [topic00_ehyrmr] Creating node instance

2019-05-10 23:10:04.268 CFY <test0> [topic01_xjti5i.create] Sending task 'dmaapplugin.mr_lifecycle.create_topic'

2019-05-10 23:10:04.268 CFY <test0> [topic00_ehyrmr.create] Sending task 'dmaapplugin.mr_lifecycle.create_topic'

2019-05-10 23:10:05.961 LOG <test0> [topic01_xjti5i.create] INFO: Attempting to create topic name topic01_name

2019-05-10 23:10:06.612 LOG <test0> [topic01_xjti5i.create] INFO: Posting to URL: <http://dmaap-bc:8080/webapi/topics> with body: {'owner': 'u'dcaeorch', 'topicDescription': 'No description provided', 'topicName': 'u'topic01_name', 'txenable': False}

2019-05-10 23:10:06.612 LOG <test0> [topic00_ehyrmr.create] INFO: Attempting to create topic name topic00_name

2019-05-10 23:10:06.612 LOG <test0> [topic00_ehyrmr.create] INFO: Posting to URL: <http://dmaap-bc:8080/webapi/topics> with body: {'owner': 'u'dcaeorch', 'topicDescription': 'No description provided', 'topicName': 'u'topic00_name', 'txenable': False}

2019-05-10 23:10:08.715 CFY <test0> [topic00_ehyrmr.create] Task succeeded 'dmaapplugin.mr_lifecycle.create_topic'

2019-05-10 23:10:09.321 CFY <test0> [topic01_xjti5i.create] Task succeeded 'dmaapplugin.mr_lifecycle.create_topic'

2019-05-10 23:10:09.321 CFY <test0> [topic00_ehyrmr] Node instance created

2019-05-10 23:10:09.321 CFY <test0> [topic01_xjti5i] Node instance created

2019-05-10 23:10:09.960 CFY <test0> [topic00_ehyrmr] Configuring node instance: nothing to do

2019-05-10 23:10:09.960 CFY <test0> [topic01_xjti5i] Configuring node instance: nothing to do

2019-05-10 23:10:09.960 CFY <test0> [topic00_ehyrmr] Starting node instance: nothing to do

2019-05-10 23:10:10.570 CFY <test0> [topic01_xjti5i] Starting node instance: nothing to do

2019-05-10 23:10:10.570 CFY <test0> [topic00_ehyrmr] Node instance started

2019-05-10 23:10:10.570 CFY <test0> [topic01_xjti5i] Node instance started

2019-05-10 23:10:11.241 CFY <test0> [web_server_cqf9i4] Creating node instance

2019-05-10 23:10:11.925 CFY <test0> [web_server_cqf9i4.create] Sending task 'k8splugin.create_for_components_with_streams'

2019-05-10 23:10:16.273 LOG <test0> [web_server_cqf9i4.create] INFO: Added config for s61b2002abe554457a78050174c431719-nginx-web

2019-05-10 23:10:16.784 LOG <test0> [web_server_cqf9i4.create] INFO: Done setting up: s61b2002abe554457a78050174c431719-nginx-web

2019-05-10 23:10:17.527 CFY <test0> [web_server_cqf9i4.create] Task succeeded 'k8splugin.create_for_components_with_streams'

2019-05-10 23:10:18.146 CFY <test0> [web_server_cqf9i4] Node instance created

2019-05-10 23:10:18.146 CFY <test0> [web_server_cqf9i4] Pre-configuring relationships

2019-05-10 23:10:18.146 CFY <test0> [preconfigure] Sending task 'dmaapplugin.mr_relationships.add_mr_publisher'

2019-05-10 23:10:20.266 LOG <test0> [preconfigure] INFO: Attempting to add web_server as publisher to topic [org.onap.dmaap.mr.topic00_name](#)

2019-05-10 23:10:20.266 LOG <test0> [preconfigure] INFO: Attempting to add web_server as publisher to topic [org.onap.dmaap.mr.topic00_name](#)

2019-05-10 23:10:20.788 LOG <test0> [preconfigure] INFO: Added publisher id 1557529820110 to feed [org.onap.dmaap.mr.topic00_name](#) at san-francisco

2019-05-10 23:10:20.788 CFY <test0> [preconfigure] Task succeeded 'dmaapplugin.mr_relationships.add_mr_publisher'

2019-05-10 23:10:21.470 CFY <test0> [preconfigure] Sending task 'dmaapplugin.mr_relationships.add_mr_subscriber'

2019-05-10 23:10:23.467 LOG <test0> [preconfigure] INFO: Attempting to add web_server as subscriber to topic [org.onap.dmaap.mr.topic01_name](#)

2019-05-10 23:10:24.004 LOG <test0> [preconfigure] INFO: Posting to URL: http://dmaap-bc:8080/webapi/mr_clients with body: {'action': ['view', 'sub'], 'clientRole': 'u'org.onap.dcae.pnfSubscriber', 'fqtn': 'u'org.onap.dmaap.mr.topic01_name', 'dcaeLocationName': 'u'san-francisco'}

2019-05-10 23:10:24.004 LOG <test0> [preconfigure] INFO: Added subscriber id 1557529823378 to feed [org.onap.dmaap.mr.topic01_name](#) at san-francisco

2019-05-10 23:10:24.658 CFY <test0> [preconfigure] Task succeeded 'dmaapplugin.mr_relationships.add_mr_subscriber'

2019-05-10 23:10:24.658 CFY <test0> [web_server_cqf9i4] Relationships pre-configured

2019-05-10 23:10:25.402 CFY <test0> [web_server_cqf9i4] Configuring node instance: nothing to do

2019-05-10 23:10:25.402 CFY <test0> [web_server_cqf9i4] Starting node instance

2019-05-10 23:10:25.998 CFY <test0> [web_server_cqf9i4.start] Sending task 'k8splugin.create_and_start_container_for_components_with_streams'

2019-05-10 23:10:27.038 LOG <test0> [web_server_cqf9i4.start] INFO: Starting k8s deployment for s61b2002abe554457a78050174c431719-nginx-web, image: nginx, env: {'CONSUL_HOST': u'consul-server.onap', 'SERVICE_TAGS': 'test0', 'CONFIG_BINDING_SERVICE': 'config-binding-service'}, kwargs: {'readiness': {'u'endpoint': u'/', u'type': u'http'}, 'labels': {'cfydeployment': u'test0', 'cfynodeinstance': u'web_server_cqf9i4', 'cfynode': u'web_server'}, 'tls_info': {}, 'envs': {'SERVICE_TAGS': 'test0'}, 'liveness': {}, 'resource_config': {}, 'volumes': [], 'log_info': {}, 'ports': [u'80:0'], 'k8s_location': u'central'}

2019-05-10 23:10:27.542 LOG <test0> [web_server_cqf9i4.start] INFO: Passing k8sconfig: {'tls': {'u'cert_path': u'/opt/tls/shared', u'image': u'hexus3.onap.org:10001/onap/org.onap.dcae2.deployments.tls-init-container:1.0.3'}, 'filebeat': {'u'config_map': u'dcae-filebeat-configmap', u'config_path': u'/usr/share/filebeat/filebeat.yml', u'log_path': u'/var/log/onap', u'image': u'docker.elastic.co/beats/filebeat:5.5.0', u'data_path': u'/usr/share/filebeat/data', u'config_subpath': u'filebeat.yml'}, 'consul_dns_name': u'consul-server.onap', 'image_pull_secrets': [u'onap-docker-registry-key'], 'namespace': u'onap', 'consul_host': 'consul-server:8500', 'default_k8s_location': u'central'}

2019-05-10 23:10:28.181 LOG <test0> [web_server_cqf9i4.start] INFO: k8s deployment initiated successfully for s61b2002abe554457a78050174c431719-nginx-web: {'services': ['s61b2002abe554457a78050174c431719-nginx-web'], 'namespace': u'onap', 'location': u'central', 'deployment': 'dep-s61b2002abe554457a78050174c431719-nginx-web'}

2019-05-10 23:10:28.181 LOG <test0> [web_server_cqf9i4.start] INFO: Waiting up to 1800 secs for s61b2002abe554457a78050174c431719-nginx-web to become ready

2019-05-10 23:10:55.773 LOG <test0> [web_server_cqf9i4.start] INFO: Done starting: s61b2002abe554457a78050174c431719-nginx-web

2019-05-10 23:10:55.251 LOG <test0> [web_server_cqf9i4.start] INFO: k8s deployment is ready for: s61b2002abe554457a78050174c431719-nginx-web

2019-05-10 23:10:56.506 CFY <test0> [web_server_cqf9i4.start] Task succeeded 'k8splugin.create_and_start_container_for_components_with_streams'

2019-05-10 23:10:57.058 CFY <test0> [web_server_cqf9i4] Node instance started

2019-05-10 23:10:57.058 CFY <test0> 'install' workflow execution succeeded

Finished executing workflow install on deployment test0

* Run 'cfy events list -e 7a4e25eb-cf1e-4d91-9004-60e4ecdff536' to retrieve the execution's events/logs

[root@dev-dcae2-dcae-bootstrap-55cb5596b7-phdct blueprints]# curl http://dmaap-bc:8080/webapi/topics/"org.onap.dmaap.mr.topic00_name" | python -mjson.tool

% Total % Received % Xferd Average Speed Time Time Time Current

Dload Upload Total Spent Left Speed

100 715 100 715 0 0 36634 0 --:--:-- --:--:-- --:--:-- 37631

```
{
  "clients": [
    {
      "action": [
        "view",
        "pub"
      ],
      "clientRole": "org.onap.dcae.pnfPublisher",
      "dcaeLocationName": "san-francisco",
      "fqtn": "org.onap.dmaap.mr.topic00_name",
      "lastMod": "2019-05-10T23:10:20.11",
      "mrClientId": "1557529820110",
      "status": "VALID",
      "topicURL": "http://message-router:3904/events/org.onap.dmaap.mr.topic00_name"
    }
  ],
  "fqtn": "org.onap.dmaap.mr.topic00_name",
  "lastMod": "2019-05-10T23:10:06.078",
```

```

"owner": "dcaeorch",
"partitionCount": "2",
"publisherRole": "org.onap.dmaap.mr.topic00_name.publisher",
"replicationCase": "REPLICATION_NONE",
"replicationCount": "1",
"status": "VALID",
"subscriberRole": "org.onap.dmaap.mr.topic00_name.subscriber",
"topicDescription": "No description provided",
"topicName": "topic00_name",
"type": "topic"
}

```

```

[root@dev-dcae-gen2-dcae-bootstrap-55cb5596b7-phdct blueprints]# curl http://dmaap-bc:8080/webapi/topics/"org.onap.dmaap.mr.topic01_name" |
python -mjson.tool

```

```

% Total    % Received % Xferd Average Speed   Time    Time     Time Current

```

```

      Dload Upload  Total   Spent    Left  Speed

```

```

100  717 100  717   0    0 43184    0 --:--:-- --:--:-- --:--:-- 44812

```

```

{
  "clients": [
    {
      "action": [
        "view",
        "sub"
      ],
      "clientRole": "org.onap.dcae.pnfSubscriber",
      "dcaeLocationName": "san-francisco",
      "fqtn": "org.onap.dmaap.mr.topic01_name",
      "lastMod": "2019-05-10T23:10:23.378",
      "mrClientId": "1557529823378",
      "status": "VALID",
      "topicURL": "http://message-router:3904/events/org.onap.dmaap.mr.topic01_name"
    }
  ],
  "fqtn": "org.onap.dmaap.mr.topic01_name",
  "lastMod": "2019-05-10T23:10:05.877",
  "owner": "dcaeorch",
  "partitionCount": "2",
  "publisherRole": "org.onap.dmaap.mr.topic01_name.publisher",
  "replicationCase": "REPLICATION_NONE",
  "replicationCount": "1",
  "status": "VALID",
  "subscriberRole": "org.onap.dmaap.mr.topic01_name.subscriber",

```

```
"topicDescription": "No description provided",
"topicName": "topic01_name",
"type": "topic"
}
```

```
[root@dev-dcae-gen2-dcae-bootstrap-55cb5596b7-phdct blueprints]# curl http://dmaap-bc:8080/webapi/mr_clients/1557529820110 | python -mjson.tool
```

```
% Total    % Received % Xferd Average Speed   Time    Time     Time Current
```

```
      Dload Upload  Total   Spent    Left  Speed
```

```
100  320 100  320   0    0  9200    0 --:--:-- --:--:-- --:--:-- 11428
```

```
{
  "action": [
    "view",
    "pub"
  ],
  "clientRole": "org.onap.dcae.pnfPublisher",
  "dcaeLocationName": "san-francisco",
  "fqtn": "org.onap.dmaap.mr.topic00_name",
  "lastMod": "2019-05-10T23:10:20.11",
  "mrClientId": "1557529820110",
  "status": "VALID",
  "topicURL": "http://message-router:3904/events/org.onap.dmaap.mr.topic00_name",
  "type": "mr_Client"
}
```

```
[root@dev-dcae-gen2-dcae-bootstrap-55cb5596b7-phdct blueprints]# curl http://dmaap-bc:8080/webapi/mr_clients/1557529823378 | python -mjson.tool
```

```
% Total    % Received % Xferd Average Speed   Time    Time     Time Current
```

```
      Dload Upload  Total   Spent    Left  Speed
```

```
100  322 100  322   0    0  7471    0 --:--:-- --:--:-- --:--:-- 7666
```

```
{
  "action": [
    "view",
    "sub"
  ],
  "clientRole": "org.onap.dcae.pnfSubscriber",
  "dcaeLocationName": "san-francisco",
  "fqtn": "org.onap.dmaap.mr.topic01_name",
  "lastMod": "2019-05-10T23:10:23.378",
  "mrClientId": "1557529823378",
  "status": "VALID",
  "topicURL": "http://message-router:3904/events/org.onap.dmaap.mr.topic01_name",
  "type": "mr_Client"
}
```

```
}
```

```
[root@dev-dcae-gen2-dcae-bootstrap-55cb5596b7-phdct blueprints]# /opt/consul/bin/consul kv export | grep key
```

```
"key": "dcae-dashboard",
"key": "dcae-hv-ves-collector",
"key": "dcae-prh",
"key": "dcae-snmptrap-collector",
"key": "dcae-tca-analytics",
"key": "dcae-ves-collector",
"key": "deployment_handler",
"key": "dmaap-plugin",
"key": "holmes-engine-mgmt",
"key": "holmes-rule-mgmt",
"key": "k8s-plugin",
"key": "s61b2002abe554457a78050174c431719-nginx-web",
"key": "s61b2002abe554457a78050174c431719-nginx-web:dmaap",
```

```
[root@dev-dcae-gen2-dcae-bootstrap-55cb5596b7-phdct blueprints]# /opt/consul/bin/consul kv get s61b2002abe554457a78050174c431719-nginx-web:dmaap | python -mjson.tool
```

```
{
  "topic00": {
    "client_id": "1557529820110",
    "client_role": "org.onap.dcae.pnfPublisher",
    "location": "san-francisco",
    "topic_url": "http://message-router:3904/events/org.onap.dmaap.mr.topic00_name"
  },
  "topic01": {
    "client_id": "1557529823378",
    "client_role": "org.onap.dcae.pnfSubscriber",
    "location": "san-francisco",
    "topic_url": "http://message-router:3904/events/org.onap.dmaap.mr.topic01_name"
  }
}
```

```
[root@dev-dcae-gen2-dcae-bootstrap-55cb5596b7-phdct blueprints]# cfy uninstall test0
```

```
Executing workflow uninstall on deployment test0 [timeout=900 seconds]
```

```
2019-05-10 23:14:49.904 CFY <test0> Starting 'uninstall' workflow execution
```

```
2019-05-10 23:14:52.322 CFY <test0> [web_server_cqf9i4] Stopping node instance
```

```
2019-05-10 23:14:53.438 CFY <test0> [web_server_cqf9i4.stop] Sending task 'k8splugin.stop_and_remove_container'
```

```
2019-05-10 23:15:01.207 CFY <test0> [web_server_cqf9i4.stop] Task succeeded 'k8splugin.stop_and_remove_container'
```

```
2019-05-10 23:15:01.921 CFY <test0> [web_server_cqf9i4] Stopped node instance
```

```
2019-05-10 23:15:02.464 CFY <test0> [web_server_cqf9i4] Unlinking relationships
```

```
2019-05-10 23:15:02.464 CFY <test0> [unlink] Sending task 'dmaapplugin.mr_relationships.delete_mr_client'
```

```
2019-05-10 23:15:06.207 LOG <test0> [unlink] INFO: Deleting URL: http://dmaap-bc:8080/webapi/mr\_clients/1557529823378
```

2019-05-10 23:15:05.464 LOG <test0> [unlink] INFO: Attempting to delete client 1557529823378

2019-05-10 23:15:06.207 LOG <test0> [unlink] INFO: Deleted client 1557529823378

2019-05-10 23:15:06.207 CFY <test0> [unlink] Task succeeded 'dmaapplugin.mr_relationships.delete_mr_client'

2019-05-10 23:15:06.867 CFY <test0> [unlink] Sending task 'dmaapplugin.mr_relationships.delete_mr_client'

2019-05-10 23:15:07.929 LOG <test0> [unlink] INFO: Attempting to delete client 1557529820110

2019-05-10 23:15:08.469 LOG <test0> [unlink] INFO: Deleting URL: http://dmaap-bc:8080/webapi/mr_clients/1557529820110

2019-05-10 23:15:08.469 LOG <test0> [unlink] INFO: Deleted client 1557529820110

2019-05-10 23:15:09.102 CFY <test0> [unlink] Task succeeded 'dmaapplugin.mr_relationships.delete_mr_client'

2019-05-10 23:15:09.102 CFY <test0> [web_server_cqf9i4] Relationships unlinked

2019-05-10 23:15:09.645 CFY <test0> [web_server_cqf9i4] Deleting node instance

2019-05-10 23:15:09.645 CFY <test0> [web_server_cqf9i4.delete] Sending task 'k8splugin.cleanup_discovery'

2019-05-10 23:15:12.474 CFY <test0> [web_server_cqf9i4.delete] Task succeeded 'k8splugin.cleanup_discovery'

2019-05-10 23:15:13.113 CFY <test0> [web_server_cqf9i4] Deleted node instance

2019-05-10 23:15:13.773 CFY <test0> [topic01_xjti5i] Stopping node instance

2019-05-10 23:15:14.311 CFY <test0> [topic00_ehyrmr] Stopping node instance

2019-05-10 23:15:15.004 CFY <test0> [topic01_xjti5i] Stopped node instance: nothing to do

2019-05-10 23:15:15.004 CFY <test0> [topic00_ehyrmr] Stopped node instance: nothing to do

2019-05-10 23:15:15.623 CFY <test0> [topic01_xjti5i] Unlinking relationships

2019-05-10 23:15:16.196 CFY <test0> [topic00_ehyrmr] Unlinking relationships

2019-05-10 23:15:16.196 CFY <test0> [topic01_xjti5i] Relationships unlinked

2019-05-10 23:15:16.807 CFY <test0> [topic01_xjti5i] Deleting node instance

2019-05-10 23:15:17.481 CFY <test0> [topic00_ehyrmr] Relationships unlinked

2019-05-10 23:15:17.481 CFY <test0> [topic01_xjti5i.delete] Sending task 'dmaapplugin.mr_lifecycle.delete_topic'

2019-05-10 23:15:18.122 CFY <test0> [topic00_ehyrmr] Deleting node instance

2019-05-10 23:15:18.122 CFY <test0> [topic00_ehyrmr.delete] Sending task 'dmaapplugin.mr_lifecycle.delete_topic'

2019-05-10 23:15:19.570 LOG <test0> [topic01_xjti5i.delete] INFO: Attempting to delete topic [org.onap.dmaap.mr.topic01_name](http://dmaap-bc:8080/webapi/topics/org.onap.dmaap.mr.topic01_name)

2019-05-10 23:15:20.084 LOG <test0> [topic01_xjti5i.delete] INFO: Deleting URL: http://dmaap-bc:8080/webapi/topics/org.onap.dmaap.mr.topic01_name

2019-05-10 23:15:20.616 CFY <test0> [topic01_xjti5i.delete] Task succeeded 'dmaapplugin.mr_lifecycle.delete_topic'

2019-05-10 23:15:20.616 CFY <test0> [topic01_xjti5i] Deleted node instance

2019-05-10 23:15:21.133 LOG <test0> [topic00_ehyrmr.delete] INFO: Attempting to delete topic [org.onap.dmaap.mr.topic00_name](http://dmaap-bc:8080/webapi/topics/org.onap.dmaap.mr.topic00_name)

2019-05-10 23:15:21.133 LOG <test0> [topic00_ehyrmr.delete] INFO: Deleting URL: http://dmaap-bc:8080/webapi/topics/org.onap.dmaap.mr.topic00_name

2019-05-10 23:15:21.849 CFY <test0> [topic00_ehyrmr.delete] Task succeeded 'dmaapplugin.mr_lifecycle.delete_topic'

2019-05-10 23:15:22.628 CFY <test0> [topic00_ehyrmr] Deleted node instance

2019-05-10 23:15:23.263 CFY <test0> 'uninstall' workflow execution succeeded

Finished executing workflow uninstall on deployment test0

* Run 'cfy events list -e 352271ca-ed0d-4823-9ebf-b2fd827f1e83' to retrieve the execution's events/logs

Deleting deployment test0...

Deployment deleted

Deleting blueprint test0...

An error occurred on the server: 400: Can't delete blueprint test0 - There exist deployments for this blueprint; Deployments ids: test0

```
[root@dev-dcae-gen2-dcae-bootstrap-55cb5596b7-phdct blueprints]# cfy blueprints delete test0
```

Deleting blueprint test0...

Blueprint deleted

```
[root@dev-dcae-gen2-dcae-bootstrap-55cb5596b7-phdct blueprints]# curl http://dmaap-bc:8080/webapi/topics/"org.onap.dmaap.mr.topic00_name" | python -mjson.tool
```

% Total	% Received	% Xferd	Average Speed	Time	Time	Time	Current
---------	------------	---------	---------------	------	------	------	---------

Dload	Upload	Total	Spent	Left	Speed
-------	--------	-------	-------	------	-------

100	97	100	97	0	0	10192	0	--:--:--	--:--:--	--:--:--	10777
-----	----	-----	----	---	---	-------	---	----------	----------	----------	-------

```
{
  "code": 404,
  "fields": "fqtn",
  "message": "topic with fqtn org.onap.dmaap.mr.topic00_name not found"
}
```

```
[root@dev-dcae-gen2-dcae-bootstrap-55cb5596b7-phdct blueprints]# curl http://dmaap-bc:8080/webapi/topics/"org.onap.dmaap.mr.topic01_name" | python -mjson.tool
```

% Total	% Received	% Xferd	Average Speed	Time	Time	Time	Current
---------	------------	---------	---------------	------	------	------	---------

Dload	Upload	Total	Spent	Left	Speed
-------	--------	-------	-------	------	-------

100	97	100	97	0	0	6631	0	--:--:--	--:--:--	--:--:--	6928
-----	----	-----	----	---	---	------	---	----------	----------	----------	------

```
{
  "code": 404,
  "fields": "fqtn",
  "message": "topic with fqtn org.onap.dmaap.mr.topic01_name not found"
}
```

```
[root@dev-dcae-gen2-dcae-bootstrap-55cb5596b7-phdct blueprints]# curl http://dmaap-bc:8080/webapi/mr_clients/1557529820110 | python -mjson.tool
```

% Total	% Received	% Xferd	Average Speed	Time	Time	Time	Current
---------	------------	---------	---------------	------	------	------	---------

Dload	Upload	Total	Spent	Left	Speed
-------	--------	-------	-------	------	-------

100	81	100	81	0	0	9157	0	--:--:--	--:--:--	--:--:--	10125
-----	----	-----	----	---	---	------	---	----------	----------	----------	-------

```
{
  "code": 404,
  "fields": "mrClientId",
  "message": "mrClientId 1557529820110 not found"
}
```

```
[root@dev-dcae-gen2-dcae-bootstrap-55cb5596b7-phdct blueprints]# curl http://dmaap-bc:8080/webapi/mr_clients/1557529823378 | python -mjson.tool
```

% Total	% Received	% Xferd	Average Speed	Time	Time	Time	Current
---------	------------	---------	---------------	------	------	------	---------

Dload	Upload	Total	Spent	Left	Speed
-------	--------	-------	-------	------	-------

100	81	100	81	0	0	1762	0	--:--:--	--:--:--	--:--:--	3240
-----	----	-----	----	---	---	------	---	----------	----------	----------	------

```
{
  "code": 404,
  "fields": "mrClientId",

```

```

    "message": "mrClientId 1557529823378 not found"
  }
}

[root@dev-dcae-gen2-dcae-bootstrap-55cb5596b7-phdct blueprints]# /opt/consul/bin/consul kv export | grep key

    "key": "dcae-dashboard",
    "key": "dcae-hv-ves-collector",
    "key": "dcae-prh",
    "key": "dcae-snmptrap-collector",
    "key": "dcae-tca-analytics",
    "key": "dcae-ves-collector",
    "key": "deployment_handler",
    "key": "dmaap-plugin",
    "key": "holmes-engine-mgmt",
    "key": "holmes-rule-mgmt",
    "key": "k8s-plugin",

[root@dev-dcae-gen2-dcae-bootstrap-55cb5596b7-phdct blueprints]#

```

The screen output for all the blueprints are available in the attached file. <[link to be added later](#)>

Validation

<expected logs + consul entry + curl commands/postman + any other steps for verification from MS standpoint>

After deploying a blueprint, we run curl commands to query DMAap DBCL configuration. For example, after deploying test_mr_pubsub.yaml, we can check whether topic00 is created in DBCL:

```
curl http://dmaap-bc:8080/webapi/topics/"org.onap.dmaap.mr.topic00_name" | python -mjson.tool
```

The return value of the query command is:

```

[root@dev-dcae-gen2-dcae-bootstrap-55cb5596b7-phdct blueprints]# curl http://dmaap-bc:8080/webapi/topics/"org.onap.dmaap.mr.topic00_name" |
python -mjson.tool

% Total    % Received % Xferd Average Speed   Time    Time     Time  Current
                                 Dload  Upload  Total   Spent    Left  Speed

100  715 100  715   0    0 36634    0 --:--:-- --:--:-- --:--:-- 37631

{
  "clients": [
    {
      "action": [
        "view",
        "pub"
      ],
      "clientRole": "org.onap.dcae.pnfPublisher",
      "dcaeLocationName": "san-francisco",
      "fqtn": "org.onap.dmaap.mr.topic00_name",
      "lastMod": "2019-05-10T23:10:20.11",
      "mrClientId": "1557529820110",

```

```

    "status": "VALID",
    "topicURL": "http://message-router:3904/events/org.onap.dmaap.mr.topic00_name"
  }
],
"fqtn": "org.onap.dmaap.mr.topic00_name",
"lastMod": "2019-05-10T23:10:06.078",
"owner": "dcaeorch",
"partitionCount": "2",
"publisherRole": "org.onap.dmaap.mr.topic00_name.publisher",
"replicationCase": "REPLICATION_NONE",
"replicationCount": "1",
"status": "VALID",
"subscriberRole": "org.onap.dmaap.mr.topic00_name.subscriber",
"topicDescription": "No description provided",
"topicName": "topic00_name",
"type": "topic"
}

```

The output contains the client ID associated with the topic ("mrClientId": "1557529820110"). We use the client ID to check the client creation in DBCL:

```
[root@dev-dcae-gen2-dcae-bootstrap-55cb5596b7-phdct blueprints]# curl http://dmaap-bc:8080/webapi/mr_clients/1557529820110 | python -mjson.tool
```

```
% Total % Received % Xferd Average Speed Time Time Time Current
```

```
 Dload Upload Total Spent Left Speed
```

```
100 320 100 320 0 0 9200 0 --:--:-- --:--:-- --:--:-- 11428
```

```

{
  "action": [
    "view",
    "pub"
  ],
  "clientRole": "org.onap.dcae.pnfPublisher",
  "dcaeLocationName": "san-francisco",
  "fqtn": "org.onap.dmaap.mr.topic00_name",
  "lastMod": "2019-05-10T23:10:20.11",
  "mrClientId": "1557529820110",
  "status": "VALID",
  "topicURL": "http://message-router:3904/events/org.onap.dmaap.mr.topic00_name",
  "type": "mr_Client"
}

```

Similarly we can verify the creation of topic01 and its client.

The consul kv should contain the service's information.

```
[root@dev-dcae-gen2-dcae-bootstrap-55cb5596b7-phdct blueprints]# /opt/consul/bin/consul kv export | grep key
```

```
"key": "dcae-dashboard",
```

```

"key": "dcae-hv-ves-collector",
"key": "dcae-prh",
"key": "dcae-snmptrap-collector",
"key": "dcae-tca-analytics",
"key": "dcae-ves-collector",
"key": "deployment_handler",
"key": "dmaap-plugin",
"key": "holmes-engine-mgmt",
"key": "holmes-rule-mgmt",
"key": "k8s-plugin",
"key": "s61b2002abe554457a78050174c431719-nginx-web",
"key": "s61b2002abe554457a78050174c431719-nginx-web:dmaap",

```

The detailed dmaap information of the new service is available in the value of key s61b2002abe554457a78050174c431719-nginx-web:dmaap:

```

[root@dev-dcae2-dcae-bootstrap-55cb5596b7-phdct blueprints]# /opt/consul/bin/consul kv get s61b2002abe554457a78050174c431719-nginx-web:dmaap | python -mjson.tool

```

```

{
  "topic00": {
    "client_id": "1557529820110",
    "client_role": "org.onap.dcae.pnfPublisher",
    "location": "san-francisco",
    "topic_url": "http://message-router:3904/events/org.onap.dmaap.mr.topic00\_name"
  },
  "topic01": {
    "client_id": "1557529823378",
    "client_role": "org.onap.dcae.pnfSubscriber",
    "location": "san-francisco",
    "topic_url": "http://message-router:3904/events/org.onap.dmaap.mr.topic01\_name"
  }
}

```

After validation we undeploy the blueprints with command "cfy uninstall test0". Then we rerun the validation to make sure that the newly create topics and their clients are deleted from DMAap DBCL and consul.