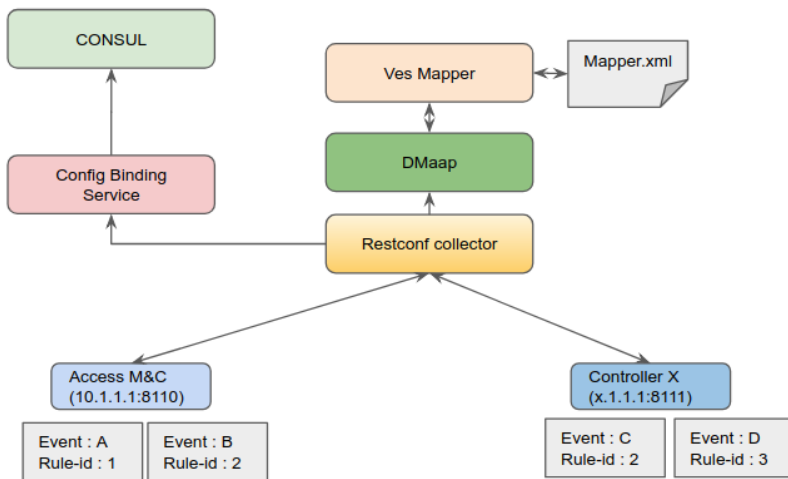


RESTConf Collector (BBS Usecase)

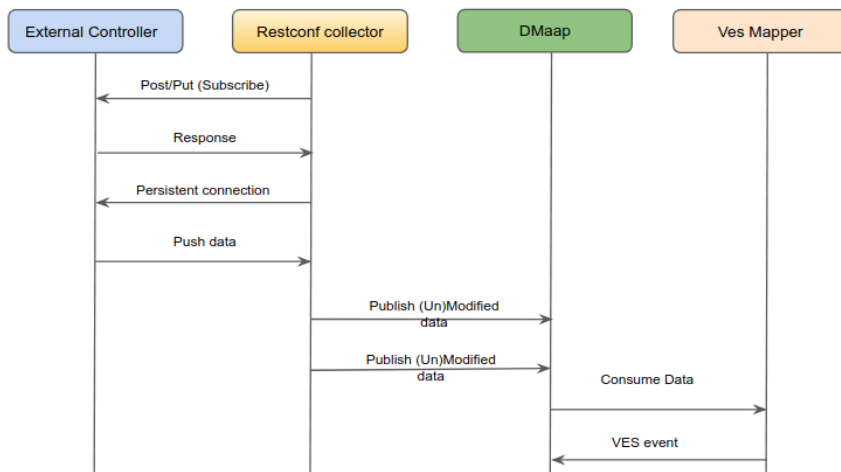
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Overview

Restconf collector is a microservice in ONAP DCAE. It subscribes to external controllers and receives event data. After receiving event data it may modify it as per usecase's requirement and produce a DMAAP event. This DMAAP event usually consumed by VES mapper. Restconf Collector can subscribe multiple events from multiple controllers.



Below diagram shows restconf interaction with an external controller.



Use cases:

1. BBS
 - * RestConf collector(RCC) subscribe for ONT (Optical network terminal) registration event from 3rd party Access Controller.
 - * RCC requests to set up a persistent connection with the controller.
 - * As the connection is standing, Access controller pushes registration event to RCC.
 - * RCC receives event, convert it JSON event, modify and append some user data and publishes on

DMAap with topic of DCAE_RCC_OUTPUT.

- * Ves Mapper consumes this event, convert it to VES event using Mapper file.

2. CCVPN

- * RestConf Collector (RCC) subscribes for remote failure alarm to SOTN Controller (SC)

- * RCC requests to set up a persistent connection with the 3rd party Controller.

- * As the connection is standing, SC pushes service route status data to the collector

- * RCC receives alarm data, converts it into JSON format and publishes on DMAap with topic of ROUTE_ALARM_OUTPUT

- * VES Adapter consumes the alarm message

- * VES requests the RestConf2VES mapping from the mapper. As of CCVPN use case proposal, the RestConf2VES.xml is manually uploaded to the mapper.

- * Mapper response back the mapping

- * UVA converts json alarm into VES event

- * UVA publishes the VES event on DMAAP for further correlation

Blueprint/model/image

Restconf Collector can be installed using cloudify blueprint <https://git.onap.org/dcaegen2/collectors/restconf/tree/dpo/blueprints/k8s-rcc-policy.yaml-template?h=master> (Master)

Or <https://git.onap.org/dcaegen2/collectors/restconf/tree/dpo/blueprints/k8s-rcc-policy.yaml-template?h=dublin> (Dublin)

Image Path:

<https://nexus.onap.org/content/repositories/snapshots/org/onap/dcaegen2/collectors/restconf/restconfcollector/1.2.0-SNAPSHOT/> (Master)

<https://nexus.onap.org/content/repositories/snapshots/org/onap/dcaegen2/collectors/restconf/restconfcollector/1.1.1-SNAPSHOT/> (Dublin)

Deployment Prerequisite/dependencies

There are several configuration paramters. Some of them are..

Parameter Name	Description
rcc.keystore.file.location	Keystore file
rcc.keystore.passwordfile	Keystore password file
rcc.truststore.file.location	Truststore file
rcc.truststore.passwordfile	Truststore password file
rcc_policy	Controllers configuration (List)
controller_name	Name of controller
controller_restapiUrl	Ip and port of the controller
controller_restapiUser	Rest API username
controller_restapiPassword	Rest API password
controller_accessTokenUrl	Rest URL to fetch access Token
controller_accessTokenFile	Template to get access token
controller_accessTokenMethod	Method name such as Post/Put to fetch access token
controller_subsMethod	Method name such as Get/Put etc. to subscribe
controller_subscriptionUrl	Rest URL to subscribe for event
controller_disableSsl	Discable SSL handshake. For test not for production
event_details	List of events for a controller (List)
event_name	Name of the event
event_sseventUrlEmbed	If SSE event URL is embeded in th event subscription reponse
event_subscriptionTemplate	Event subscription template
event_ruleId	Rule id to attach (optional)
modifyData	whether to modify data. (True/False)

modifyMethod	If modify data is true should provide modify method name and implementation
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Deployment Steps

Task	
Download code	git clone https://gerrit.onap.org/r/dcaegen2/collectors/restconf [Modify the configuration parameters if required. Update the security files.]
Build	mvn clean install
Run	docker run onap/org.onap.dcaegen2.collectors.restconfcollector
Using cloudify	Install : cfy blueprints validate /<blueprints-file-path>/k8s-rcc-policy.yaml cfy blueprints upload -b restconfcollector /<blueprints-file-path>/k8s-rcc-policy.yaml cfy deployments create -b restconfcollector cfy executions start -d restconfcollector install Un Install: cfy uninstall restconfcollector cfy deployments delete -f restconfcollector cfy blueprints delete restconfcollector

Validation

Check if component is running.

```
ubuntu@oom-rancher-dublin:~$ sudo su -c "kubectl get po -n onap | grep rcc"
dep-dcaegen2-collectors-rcc-6d47647d8d-r2n42      2/2      Running      0      3h
```

The logs are stored in /opt/app/restconfcollector/logs/collector.log