Confluent Certified Developer for Apache Kafka Certification Examination -Notes

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Setting Up Environment

We will be using confluent kafka docker images to run the kafka services. Follow

Running Apache Kafka in docker container - First time

• Clone the repository

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git clone

https://github.com/balajich/CCD-Apache-Kafka-Certification-Examination-Notes.git

Change to cloned directory

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cd CCD-Apache-Kafka-Certification-Examination-Notes

• Start the linux virtual machine using Vagrant

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vagrant up

Take ssh to linux

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vagrant ssh

• Switch to root user in linux machine

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[vagrant@kserver ~]\$ sudo su -

Go to vagrant folder

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[root@kserver ~]# cd /vagrant/

• Start the kafka server using docker-compose, The below command will start all the dependent services

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[root@kserver vagrant]# docker-compose up -d

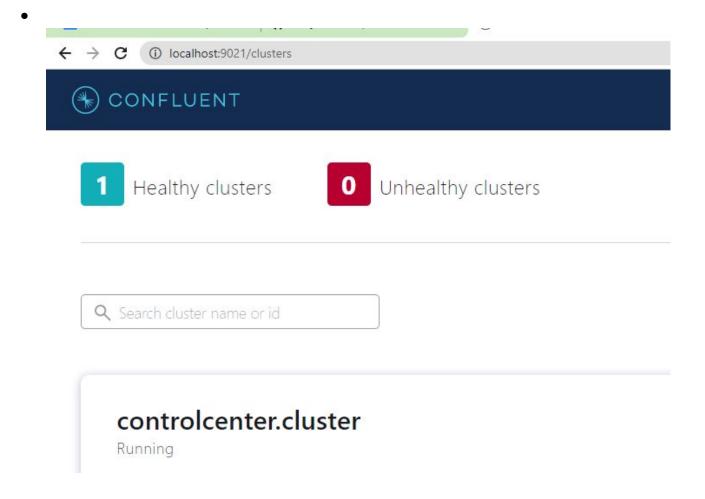
You should see output as

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zookeeper is up-to-date
Starting broker ... done
schema-registry is up-to-date
rest-proxy is up-to-date
Starting connect ... done
Starting ksqldb-server ... done
Starting control-center ...
Starting ksql-datagen ...
Starting control-center ... done

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 Access confluent command center UI. VM is configured to do port forward of command center UI port. http://localhost:9021/



Stopping Apache Kafka that is running in docker container

[root@kserver vagrant]# docker-compose stop
Stopping ksql-datagen ... done
Stopping control-center ... done
Stopping ksqldb-cli ... done
Stopping ksqldb-server ... done
Stopping connect ... done
Stopping rest-proxy ... done
Stopping schema-registry ... done
Stopping broker ... done
Stopping zookeeper ... done

Starting the container that was stopped

```
[root@kserver vagrant]# docker-compose start
Starting zookeeper ... done
Starting broker ... done
Starting schema-registry ... done
Starting connect ... done
Starting ksqldb-server ... done
Starting control-center ... done
Starting ksqldb-cli ... done
Starting ksql-datagen ... done
Starting rest-proxy ... done
```

Deleting Kafka environment

```
[root@kserver vagrant]# docker-compose down
Stopping control-center ... done
Stopping ksqldb-cli ... done
Stopping ksqldb-server ... done
Stopping zookeeper ... done
Removing ksql-datagen ... done
Removing control-center ... done
Removing ksqldb-cli ... done
Removing ksqldb-server ... done
Removing connect
                    ... done
Removing rest-proxy ... done
Removing schema-registry ... done
Removing broker
                  ... done
Removing zookeeper
                      ... done
Removing network vagrant default
```

Troubleshooting

Checking state of kafka process that are running in docker container

[root@kserve Name	r vagrant]# docker-compose Command	e ps State	Ports
broker 0.0.0.0:9101-3	/etc/confluent/docker/run >9101/tcp	Up	0.0.0.0:9092->9092/tcp,
connect control-center ksql-datagen ksqldb-cli	/etc/confluent/docker/run /etc/confluent/docker/run bash -c echo Waiting for /bin/sh Up	- 1-	0.0.0.0:8083->8083/tcp, 9092/tcp 0.0.0.0:9021->9021/tcp
ksqldb-server rest-proxy schema-regis zookeeper 3888/tcp	/etc/confluent/docker/run/etc/confluent/docker/run/	Up	0.0.0.0:8088->8088/tcp 0.0.0.0:8082->8082/tcp 0.0.0.0:8081->8081/tcp 0.0.0.0:2181->2181/tcp, 2888/tcp,

Application Design

Development

Deployment/Testing/Monitoring