# Kafka Setup:standalone

2.cd /opt

3.git clone https://github.com/mahuadasgupta/kafkasetup.git (this command will create a kafkasetup folder)

4.cd kafkasetup

5.download kafka2.12 wget http://download.nextag.com/apache/kafka/1.0.0/kafka\_2.12-1.0.0.tgz

extract the kafka tarfile:

1. tar -zxvf kafka\_2.12-1.0.0.tgz

Rename the extracted folder: mv kafka\_2.12-1.0.0 kafka\_2.12-1.0.0\_standalone

Configure zookeeper:

1.cd /opt/kafkasetup/software/kafka\_2.12-1.0.0\_standalone/config

2.edit zookeeper.properties file with below parameter

dataDir=/opt/kafkasetup/zookeeper

clientPort=2181

maxClientCnxns=0

start zookeeper:

1.cd /opt/kafkasetup/software/kafka\_2.12-1.0.0\_standalone

2. bin/zookeeper-server-start.sh -daemon config/zookeeper.propertiess

verify zookeeper:

1.netstat -anp|grep 2181 (it should output as mentioned below)

tcp6 0 0 :::2181 :::\* LISTEN 633/java

if above output is not visible then run zookeeper in non daemon mode i.e infore groud and check the issue

bin/zookeeper-server-start.sh config/zookeeper.properties

configure kafka:

1.cd /opt/kafkasetup/software/kafka\_2.12-1.0.0\_standalone/config

2.edit server.properties with below parameters.

broker.id=0

log.dirs=/opt/app/kafkasetup/kafka-logs

zookeeper.connect=localhost:2181

start kafka:

1.cd /opt/kafkasetup/software/kafka\_2.12-1.0.0\_standalone

2. bin/kafka-server-start.sh -daemon config/server.properties

verify kafka:

1.netstat -anp|grep 9092 (it should output as mentioned below)

tcp6 0 0 :::9092 :::\* LISTEN 1233/java

if above output is not visible then run zookeeper in non daemon mode i.e infore groud and check the issue

bin/kafka-server-start.sh config/server.properties

Kafka producer and consumer testing:

single producer vs single consumer/subscriber

1.set up a docker container kafkasetup in a terminal

1.1 login to a putty session where kafka is instaled (192.168.2.217)

1.2 login to the running docker container using docker kafkasetup (if found kafkasetup is not running use the command

docker rm kafkamahua ; docker run -it --hostname kafkamahua --name kafkamahua kafkamahua /bin/bash)

1.3 grab the ip of the system using ifconfig command(172.17.0.3)

1.4 start the sshd server :(/sbin/sshd)

1.5 create a kafkaproducer

and kafkaconsumer (adduser kafkaproducer ;passwd kafkaproducer) and (adduser kafkaconsumer ;passwd kafkaconsumer)

2. start producer in a terminal

2.1 open up a new putty terminal (login to a putty session where kafka is instaled (192.168.2.217)

2.2 login to docker terminal using ssh kafkaproducer@172.17.0.3 and the password

2.3 cd /opt/kafkasetup/software/kafka\_2.12-1.0.0\_stand

2.4 create a topic:bin/kafka-topics.sh --create --zookeeper localhost:2181 --replication-factor 1 --partitions 1 --topic mahuatopic

2.5 verify the topic:bin/kafka-topics.sh --list --zookeeper localhost:2181

2.6 start the producer:bin/kafka-console-producer.sh --broker-list localhost:9092 --topic mahuatopic

>hi this is kafka setup test

3.start consumer in a terminal

3.1 open up a new putty terminal (login to a putty session where kafka is instaled (192.168.2.217)

3.2 login to docker terminal using ssh kafkaconsumer@172.17.0.3 and the password

3.3 cd /opt/kafkasetup/software/kafka\_2.12-1.0.0\_standalone/

3.4 message consumption from beginning:bin/kafka-console-consumer.sh --bootstrap-server localhost:9092 --topic mahuatopic --from-beginning

hi this is kafka setup test

3.5 go to producer terminal and append a line

>hi this is kafka setting test

3.6 look into the consumer terminal, it will look like

hi this is kafka setup test

hi this is kafka setting test

3.7 incremental message consumption:bin/kafka-console-consumer.sh --bootstrap-server localhost:9092 --topic mahuatopic (it will hang)

3.8 go to producer terminal and append a line

testing

3.9 look into the consumer terminal it will look like

testing

this means it will only consume upcoming messages and not from begining

single producer vs multi consumer/subscriber

1.keep the above set up as it is i.e. keep open the previous producer and consumer terminals,the commands

2.add a user kafkaconsumer1 in docker terminal

3.open up a new putty terminal (login to a putty session where kafka is instaled (192.168.2.217)

4. login to a docker terminal using ssh kafkaconsumer1@172.17.0.3

5. cd /opt/kafkasetup/software/kafka\_2.12-1.0.0\_standalone/

6.incremental message consumption:bin/kafka-console-consumer.sh --bootstrap-server localhost:9092 --topic mahuatopic

(it will hang)

7.go to producer terminal and append a line

testing2

8.go to consumer terminal1,it will look like

testing

testing2

9.go to consumer terminal2 ,it will look like

testing2

multi producer vs multi consumer/subscriber

1.keep the above set up as it is i.e. keep open the previous producer and consumer terminals,the commands

2.add a user kafkaproducer1 in docker terminal

3.open up a new putty terminal (login to a putty session where kafka is instaled (192.168.2.217)

4.login to a docker terminal using ssh kafkaproducer1@172.17.0.3

5. cd /opt/kafkasetup/software/kafka\_2.12-1.0.0\_standalone/

6.start the 2nd producer:bin/kafka-console-producer.sh --broker-list localhost:9092 --topic mahuatopic

append a line:

testing 2nd producer

7.go to consumer terminal1,it will look like

testing

testing2

testing 2nd producer

8.go to consumer terminal2 ,it will look like

testing2

testing 2nd producer

9. go to producer terminal1 and append a line

testing first producer again

10..go to consumer terminal1,it will look like

testing

testing2