

Kafka – Instant Health Alert System

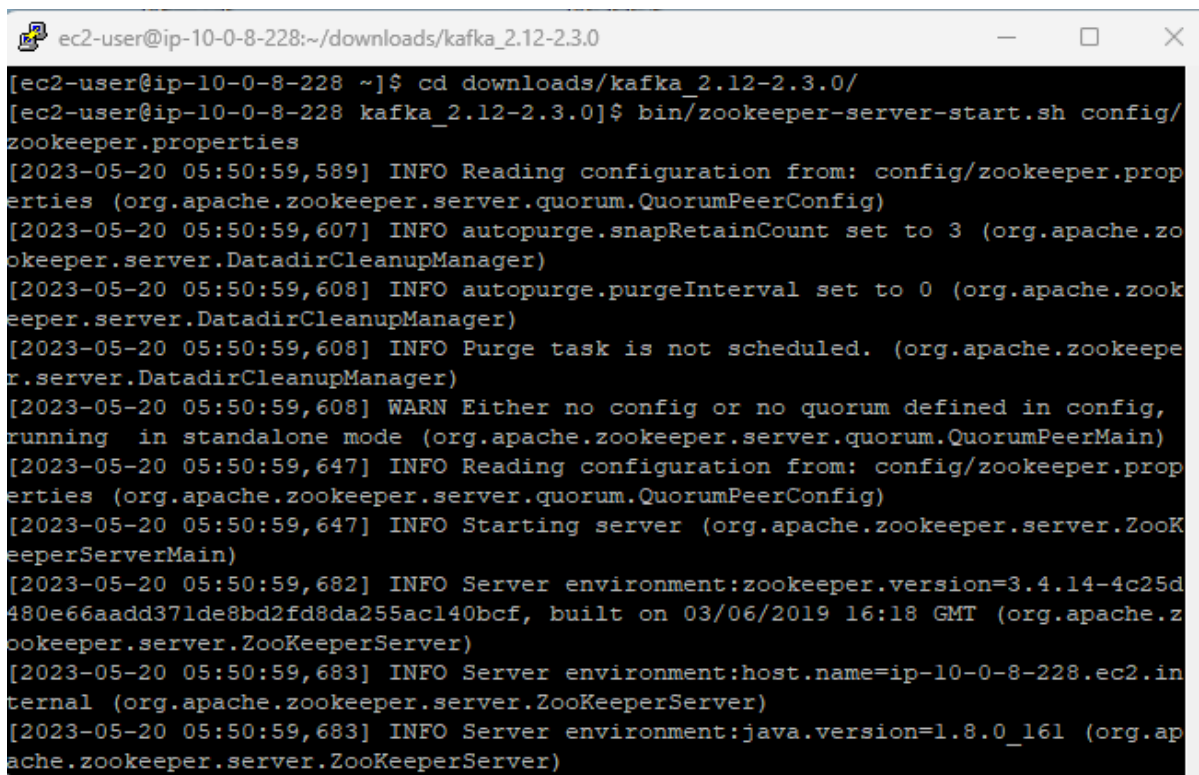
Installed kafka server on EC2 instance.

Logged into EC2 instance using ssh and changed the directory to downloads/kafka_2.12-2.3.0

1. Starting zookeeper server

Below command is used to start zookeeper server.

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



```
ec2-user@ip-10-0-8-228:~/downloads/kafka_2.12-2.3.0
[ec2-user@ip-10-0-8-228 ~]$ cd downloads/kafka_2.12-2.3.0/
[ec2-user@ip-10-0-8-228 kafka_2.12-2.3.0]$ bin/zookeeper-server-start.sh config/
zookeeper.properties
[2023-05-20 05:50:59,589] INFO Reading configuration from: config/zookeeper.prop
erties (org.apache.zookeeper.server.quorum.QuorumPeerConfig)
[2023-05-20 05:50:59,607] INFO autopurge.snapRetainCount set to 3 (org.apache.zo
ookeeper.server.DatadirCleanupManager)
[2023-05-20 05:50:59,608] INFO autopurge.purgeInterval set to 0 (org.apache.zook
eeper.server.DatadirCleanupManager)
[2023-05-20 05:50:59,608] INFO Purge task is not scheduled. (org.apache.zookeep
er.server.DatadirCleanupManager)
[2023-05-20 05:50:59,608] WARN Either no config or no quorum defined in config,
running in standalone mode (org.apache.zookeeper.server.quorum.QuorumPeerMain)
[2023-05-20 05:50:59,647] INFO Reading configuration from: config/zookeeper.prop
erties (org.apache.zookeeper.server.quorum.QuorumPeerConfig)
[2023-05-20 05:50:59,647] INFO Starting server (org.apache.zookeeper.server.ZooK
eeperServerMain)
[2023-05-20 05:50:59,682] INFO Server environment:zookeeper.version=3.4.14-4c25d
480e66aadd371de8bd2fd8da255ac140bcf, built on 03/06/2019 16:18 GMT (org.apache.z
ookeeper.server.ZooKeeperServer)
[2023-05-20 05:50:59,683] INFO Server environment:host.name=ip-10-0-8-228.ec2.in
ternal (org.apache.zookeeper.server.ZooKeeperServer)
[2023-05-20 05:50:59,683] INFO Server environment:java.version=1.8.0_161 (org.ap
ache.zookeeper.server.ZooKeeperServer)
```

2. Starting kafka server

Below command is used to start kafka server.

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

```
ec2-user@ip-10-0-8-228:~/downloads/kafka_2.12-2.3.0
[ec2-user@ip-10-0-8-228 ~]$ cd downloads/kafka_2.12-2.3.0/
[ec2-user@ip-10-0-8-228 kafka_2.12-2.3.0]$ bin/kafka-server-start.sh config/server.properties
[2023-05-20 05:51:47,451] INFO Registered kafka:type=kafka.Log4jController MBean (kafka.utils.Log4jControllerRegistration$)
[2023-05-20 05:51:50,531] INFO Registered signal handlers for TERM, INT, HUP (org.apache.kafka.common.utils.LoggingSignalHandler)
[2023-05-20 05:51:50,532] INFO starting (kafka.server.KafkaServer)
[2023-05-20 05:51:50,533] INFO Connecting to zookeeper on localhost:2181 (kafka.server.KafkaServer)
[2023-05-20 05:51:50,646] INFO [ZooKeeperClient Kafka server] Initializing a new session to localhost:2181. (kafka.zookeeper.ZooKeeperClient)
[2023-05-20 05:51:50,653] INFO Client environment:zookeeper.version=3.4.14-4c25d480e66aadd371de8bd2fd8da255ac140bcf, built on 03/06/2019 16:18 GMT (org.apache.zookeeper.ZooKeeper)
[2023-05-20 05:51:50,654] INFO Client environment:host.name=ip-10-0-8-228.ec2.internal (org.apache.zookeeper.ZooKeeper)
[2023-05-20 05:51:50,654] INFO Client environment:java.version=1.8.0_161 (org.apache.zookeeper.ZooKeeper)
[2023-05-20 05:51:50,654] INFO Client environment:java.vendor=Oracle Corporation (org.apache.zookeeper.ZooKeeper)
[2023-05-20 05:51:50,654] INFO Client environment:java.home=/usr/java/jdk1.8.0_161/jre (org.apache.zookeeper.ZooKeeper)
[2023-05-20 05:51:50,654] INFO Client environment:java.class.path=/home/ec2-user
```

3. Creating kafka topic

Below command is used to **create** kafka topic.

bin/kafka-topics.sh --create --bootstrap-server 54.167.171.158:9092 --replication-factor 1 --partitions 1 --topic patient-vital-info

Below command is used to **list** kafka topic.

bin/kafka-topics.sh --list --bootstrap-server 54.167.171.158:9092

```
ec2-user@ip-10-0-8-228:~/downloads/kafka_2.12-2.3.0
[ec2-user@ip-10-0-8-228 kafka_2.12-2.3.0]$ bin/kafka-topics.sh --create --bootstrap-server 54.167.171.158:9092 --replication-factor 1 --partitions 1 --topic patient-vital-info
[ec2-user@ip-10-0-8-228 kafka_2.12-2.3.0]$ bin/kafka-topics.sh --list --bootstrap-server 54.167.171.158:9092
__consumer_offsets
patient-vital-info
[ec2-user@ip-10-0-8-228 kafka_2.12-2.3.0]$
```