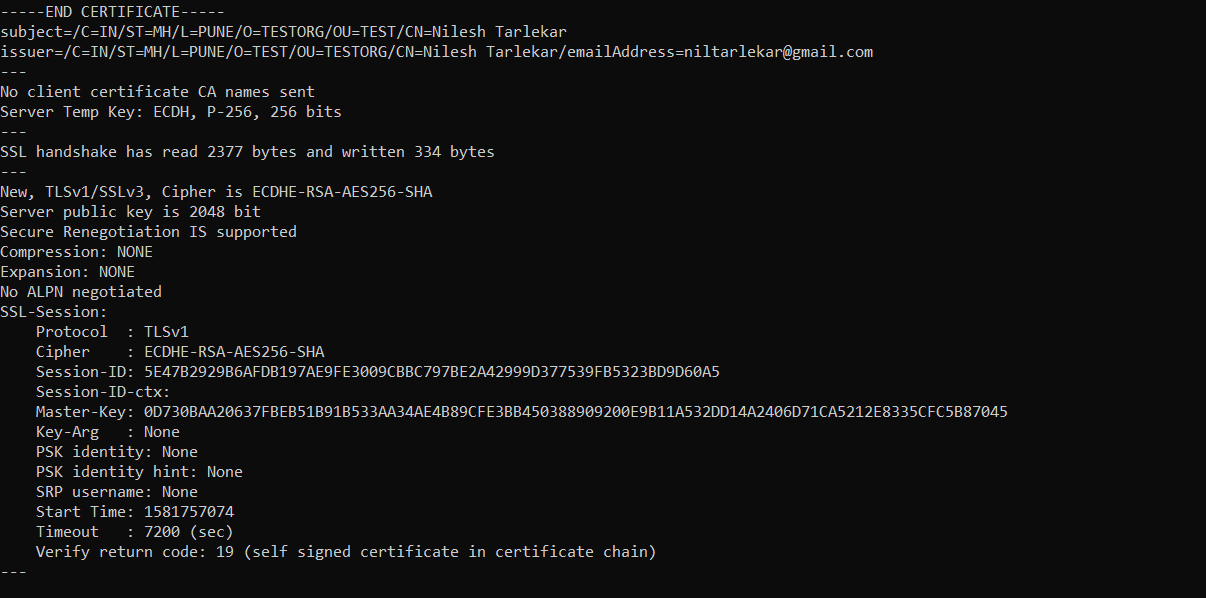
Contents

**No table of contents entries found.**

1. Successful kafka setup with SSL

Steps to set up kafka with authentication, authorization and SSL

1. First created self-signed certificates using Java Key tool. Please find below command to create KeyStore and TrustStore JKS files
2. javakeytool -keystore C:\Nilesh\KafkaCerts\server.keystore.jks -alias localhost -validity 365 -keyalg RSA -genkey
3. openssl req -new -x509 -keyout ca-key -out C:\Nilesh\KafkaCerts\ca-cert -days 365
4. keytool -keystore C:\Nilesh\KafkaCerts\server.truststore.jks -alias CARoot -import -file C:\Nilesh\KafkaCerts\ca-cert
5. keytool -keystore C:\Nilesh\KafkaCerts\client.truststore.jks -alias CARoot -import -file C:\Nilesh\KafkaCerts\ca-cert
6. keytool -keystore C:\Nilesh\KafkaCerts\server.keystore.jks -alias localhost -certreq -file C:\Nilesh\KafkaCerts\cert-file
7. openssl x509 -req -CA C:\Nilesh\KafkaCerts\ca-cert -CAkey ca-key -in C:\Nilesh\KafkaCerts\cert-file -out C:\Nilesh\KafkaCerts\cert-signed -days 365 -CAcreateserial -passin pass:123456
8. keytool -keystore C:\Nilesh\KafkaCerts\server.keystore.jks -alias CARoot -import -file C:\Nilesh\KafkaCerts\ca-cert
9. keytool -keystore C:\Nilesh\KafkaCerts\server.keystore.jks -alias localhost -import -file C:\Nilesh\KafkaCerts\cert-signed
10. to Check certificates configured properly execute this command
11. openssl s\_client -debug -connect 192.168.0.105:9093 -tls1
12. You Should get Below output



1. Configure Kafka Server.properties for SSL

**listeners=SSL://192.168.0.105:9093**

**advertised.listeners=SSL://192.168.0.105:9093**

**ssl.truststore.location=C://Nilesh//KafkaCerts//server.truststore.jks**

**ssl.truststore.password=123456**

**ssl.keystore.location=C://Nilesh//KafkaCerts//server.keystore.jks**

**ssl.keystore.password=123456**

**ssl.key.password=123456**

**security.inter.broker.protocol=SSL**

**ssl.endpoint.identification.algorithm=**

**ssl.enabled.protocols=TLSv1.2,TLSv1.1,TLSv1**

**ssl.keystore.type=JKS**

**ssl.truststore.type=JKS**

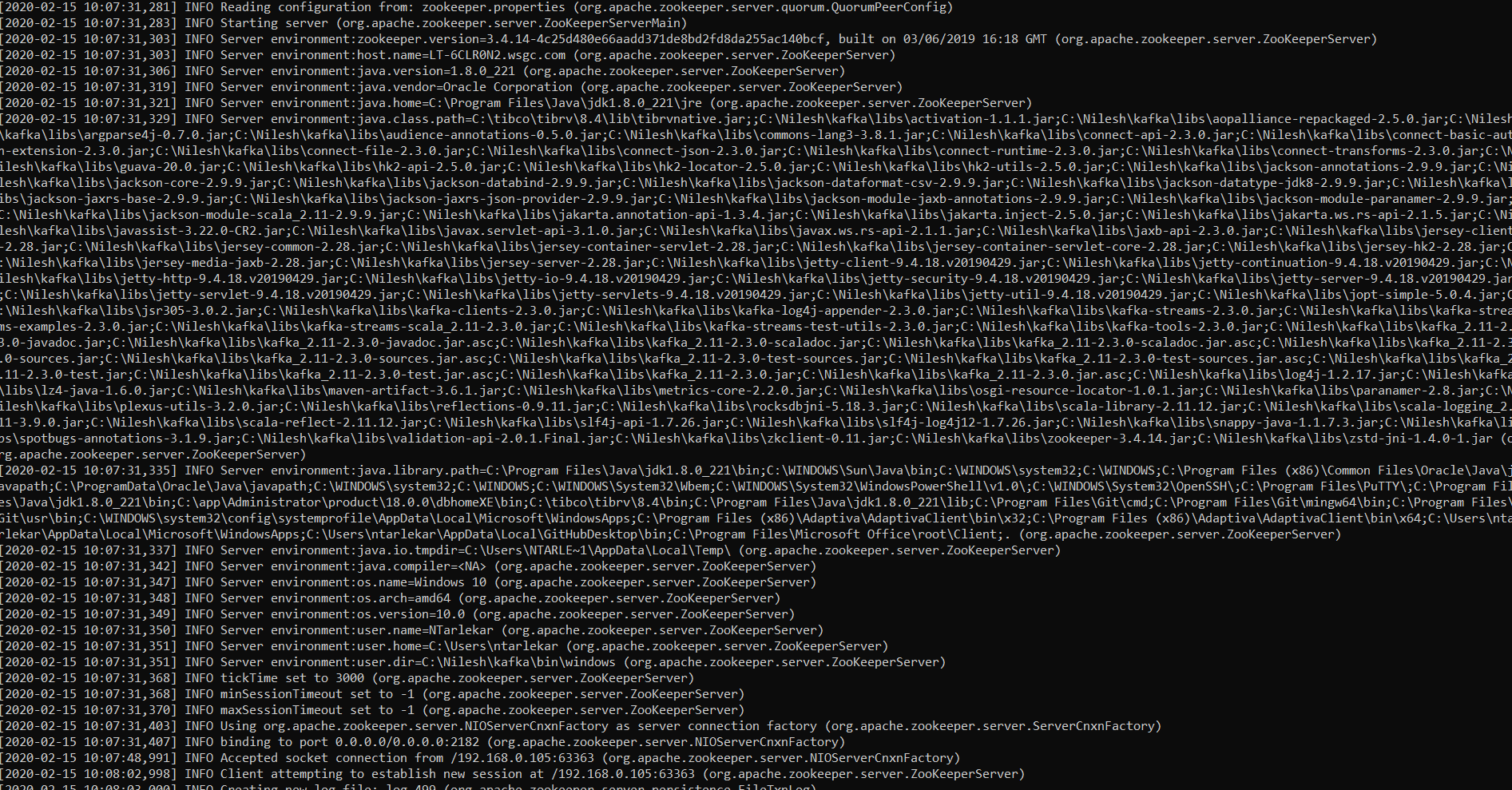
**ssl.secure.random.implementation=SHA1PRNG**

**security.inter.broker.protocol=SSL**

1. **Start ZooKeeper and Kafka Server**

**C:\Nilesh\kafka\bin\windows> zookeeper-server-start.bat zookeeper.properties**

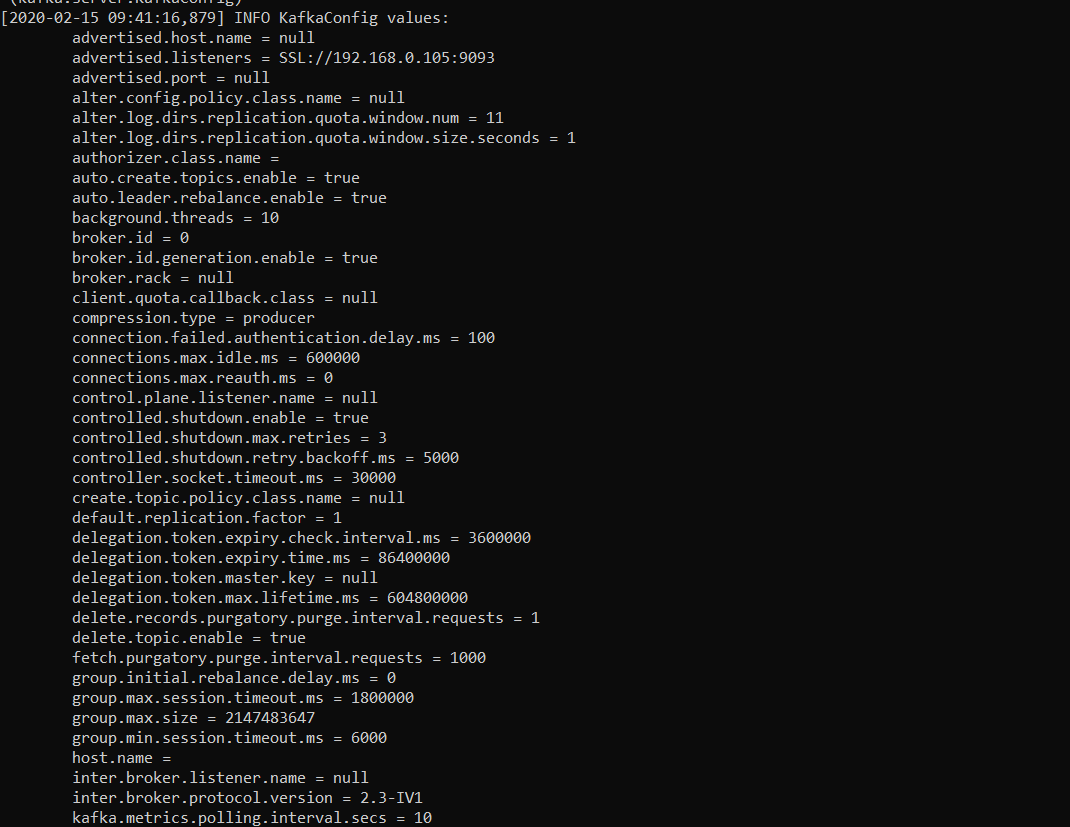
**Check logs**



**Start Kafka Server**

**C:\Nilesh\kafka\bin\windows> kafka-server-start.bat server.properties**

**Check Console Logs Should Start with SSL protocal**



1. **Create Kafka TOPICs**

**C:\Nilesh\kafka\bin\windows> kafka-topics.bat --create --zookeeper localhost:2182 --replication-factor 1 --partitions 1 --topic order.create**

**C:\Nilesh\kafka\bin\windows> kafka-topics.bat --create --zookeeper localhost:2182 --replication-factor 1 --partitions 1 --topic order.status**

**Check TOPICS created Successfully**

**C:\Nilesh\kafka\bin\windows> kafka-topics.bat --list --zookeeper localhost:2182**

