Scenario 21

Problem-statement :

There are no broker metrics captured in the control center. The control center has a message - `Please set up Confluent Metrics Reporter to view broker metrics`. The customer has setup Confluent Metrics Reporter but is still unable to view broker metrics

Observation :

When I run the docker-compose up the all the kafka brokers are down due to certification validity and after solved the brokers when I tried to access the control center through UI I have seen there broker metrics are not visualizing then I did

Errors :

Broker metrics are not visualizing in controle center UI

Aproach / Method :

TLS (renewal of certificates) &&

Checking the configuration setting of the confluent metric reporters

Detailed Solution :

1. **Renewal of certificates** :
   While I up the docker-compose first I observed the kafka-brokers are down and then I logged the each containers then I have got the ssl certificate errors .then I have checked the certificate validities and passwords and correct paths and matched . I pointed out that error was due to certificate validity they have expired .
   Then I have renewed the certificates of all brokers by using commands
   Commands :
   keytool -keystore kafka.server.keystore.jks -alias localhost -certreq -file kafka-broker-new.csr

   openssl x509 -req -CA ~/tasks/cp-sandbox/certs/ca-cert -CAkey ~/tasks/cp-sandbox/certs/ca-key -in kafka-broker-new.csr -out kafka-broker-new-signed-cert.pem -days 365 -CAcreateserial

   keytool -keystore kafka.server.keystore.jks -alias localhost -import -file kafka-broker-new-signed-cert.pem

Again then I have checked the certificates and then watched the validate the expiry date its good and updated for 365 days.

2. **Updating the broker server properties :**

Check the broker server properties and listeners first
listeners=CLIENT://:9092,BROKER://:9093,TOKEN://:9094,USER://:9095

advertised.listeners=CLIENT://kafka1:9092,BROKER://kafka1:9093,TOKEN://kafka1:9094,USER://kafka1:9095

Then we need to check the confluent metrics reporter settings in all three brokers

metric.reporters=io.confluent.metrics.reporter.ConfluentMetricsReporter
confluent.metrics.reporter.bootstrap.servers=kafka1:9095,kafka2:9095,kafka3:9095
confluent.metrics.reporter.security.protocol=SSL
confluent.metrics.reporter.ssl.truststore.location=/etc/kafka/kafka.server.truststore.jks
confluent.metrics.reporter.ssl.truststore.password=kafka-broker
confluent.metrics.reporter.ssl.keystore.location=/etc/kafka/kafka.server.keystore.jks
confluent.metrics.reporter.ssl.keystore.password=kafka-training

Here we can see that confluent metrics reporter is access the broker via ssl configs
But there ssl port are not configured rather than plaintext protocol ports have been mapped soo change it to the ssl ports from **9095 >> 9093**

confluent.metrics.reporter.bootstrap.servers=kafka1:9093,kafka2:9093,kafka3:9093

Conclusion :

☐ Check the ports which are correctly mapped in listeners or not
☐ Check the confluent metrics reporter bootstrap servers and protocol configured for confluent metrics