**Kafka SASL PLAINTEXT Authentication**

We need to follow below configurations for setting up SASL PLAINTEXT authentication with Apache Kafka.

Step 1 : Add below configuration into **zookeeper.properties** file

1. authProvider.1=org.apache.zookeeper.server.auth.SASLAuthenticationProvider
2. requireClientAuthScheme=sasl
3. jaasLoginRenew=3600000

Step 2 : Add below configuration into **server.properties** file

listeners=SASL\_PLAINTEXT://localhost:9093

advertised.listeners=SASL\_PLAINTEXT://localhost:9093

security.protocol=SASL\_PLAINTEXT

sasl.mechanism.inter.broker.protocol=PLAIN

sasl.enabled.mechanisms=PLAIN

security.inter.broker.protocol=SASL\_PLAINTEXT

ssl.endpoint.identification.algorithm=

authorizer.class.name=kafka.security.authorizer.AclAuthorizer

super.users=User:admin

allow.everyone.if.no.acl.found=true

zookeeper.set.acl=false

Step 3 : Create new file under Kafka/config/**zookeeper\_jaas.properties** and add below configurations.

Server {

org.apache.zookeeper.server.auth.DigestLoginModule required

user\_super="zookeeper"

user\_admin="admin-secret";

};

KafkaServer {

org.apache.kafka.common.security.plain.PlainLoginModule required

username="admin"

password="admin-secret"

user\_admin="admin-secret"

serviceName="kafka";

};

KafkaClient {

org.apache.kafka.common.security.plain.PlainLoginModule required

username="admin"

password="admin-secret"

user\_admin="admin-secret"

serviceName="kafka";

};

Client {

org.apache.zookeeper.server.auth.DigestLoginModule required

username="admin"

password="admin-secret";

};

Step 4 : Open Kafka/bin/windows/**kafka-run-class.bat** file in notepad and provide zookeeper\_jaas file path which we created in STEP-3 under KAFKA\_OPTS.

KAFKA\_OPTS=

"-Djava.security.auth.login.config=D:\Kafka\config\zookeeper\_jaas.conf"

Step 5 : Add below configuration into **producer.properties** and **consumer.properties** file

security.protocol=SASL\_PLAINTEXT

sasl.mechanism=PLAIN

sasl.jaas.config=org.apache.kafka.common.security.plain.PlainLoginModule required username="admin" password="admin-secret";

Step 6 : Create new file under Kafka/config/**kafka-topic-create.properties** (we can provide any file name here) and add below configuration into file.

security.protocol=SASL\_PLAINTEXT

sasl.mechanism=PLAIN

sasl.jaas.config=org.apache.kafka.common.security.plain.PlainLoginModule required username="admin" password="admin-secret";

**Note** : This file will use when we try to create kafka topic

**Step 7 : Kafka Commands**

**Start Zookeepr :**

Kafka🡪.\bin\windows\zookeeper-server-start.bat .\config\zookeeper.properties

**Start Kafka :**

Kafka 🡪 .\bin\windows\kafka-server-start.bat .\config\server.properties

**Create Topic :: Kafka--> bin --> windows**

kafka-topics.bat --create --bootstrap-server localhost:9093 --command-config D:\Kafka\config\kafka-topic-create.properties --create --topic TOPIC\_NAME

**Produce Message :**

Kafka 🡪 .\bin\windows\kafka-console-producer.bat --producer.config=.\config\producer.properties --broker-list localhost:9093 --topic TOPIC\_NAME

**Consume Message :**

Kafka🡪 .\bin\windows\kafka-console-consumer.bat --consumer.config=.\config\consumer.properties --topic TOPIC\_NAME --bootstrap-server localhost:9093