

# For On-Premise Kafka Deployments for SASL\_PLAINTEXT:

*Below are suggested configurations – some fields may differ or may not apply*

*Server environment: zookeeper.version=3.6.1--104dcb3e3fb464b30c5186d229e00af9f332524b, built on 04/21/2020 15:01 GMT*

*Server environment: java.version=1.8.0\_144*

## **Server.properties**

security.inter.broker.protocol=SASL\_PLAINTEXT  
sasl.mechanism.inter.broker.protocol=PLAIN  
sasl.enabled.mechanisms=PLAIN

authorizer.class.name=kafka.security.auth.SimpleAclAuthorizer  
allow.everyone.if.no.acl.found=true  
auto.create.topics.enable=false  
broker.id=0  
listeners=SASL\_PLAINTEXT://localhost:9092  
advertised.listeners=SASL\_PLAINTEXT://localhost:9092  
num.network.threads=3  
num.io.threads=8  
socket.send.buffer.bytes=102400  
socket.receive.buffer.bytes=102400  
socket.request.max.bytes=104857600

advertised.host.name=localhost  
num.partitions=1  
num.recovery.threads.per.data.dir=1  
log.flush.interval.messages=30000000  
log.flush.interval.ms=1800000  
log.retention.minutes=30  
log.segment.bytes=1073741824  
log.retention.check.interval.ms=300000  
delete.topic.enable=true  
zookeeper.connect=localhost:2181  
zookeeper.connection.timeout.ms=6000  
super.users=User:admin

## **zookeeper.properties:**

dataDir=/tmp/zookeeper  
clientPort=2181  
maxClientCnxns=0  
authProvider.1=org.apache.zookeeper.server.auth.SASLAuthenticationProvider  
requireClientAuthScheme=sasl  
jaasLoginRenew=3600000

## **producer.properties:**

security.protocol=SASL\_PLAINTEXT

```
sasl.mechanism=PLAIN
bootstrap.servers=localhost:9092
compression.type=none
```

### **consumer.properties:**

```
security.protocol=SASL_PLAINTEXT
sasl.mechanism=PLAIN
zookeeper.connect=localhost:2181
zookeeper.connection.timeout.ms=6000
group.id=test-consumer-group
```

### **zookeeper\_jaas.conf**

```
Server {
  org.apache.kafka.common.security.plain.PlainLoginModule required
  username="admin"
  password="admin-secret"
  user_admin="admin-secret";
};
```

### **kafka\_server\_jaas.conf**

```
KafkaServer {
  org.apache.kafka.common.security.plain.PlainLoginModule required
  username="admin"
  password="admin-secret"
  user_admin="admin-secret";
};
```

```
Client {
  org.apache.kafka.common.security.plain.PlainLoginModule required
  username="admin"
  password="admin-secret";
};
```

After doing all these configuration, on a first terminal window:

### **Terminal 1 (start Zookeeper server)**

From kafka root directory

```
$ export KAFKA_OPTS="-Djava.security.auth.login.config=/home/username/Documents/kafka_2.11-0.10.1.0/config/zookeeper_jaas.conf"
$ bin/zookeeper-server-start.sh config/zookeeper.properties
```

## Terminal 2 (start Kafka server)

From kafka root directory

```
$ export KAFKA_OPTS="-Djava.security.auth.login.config=/home/username/Documents/kafka_2.11-0.10.1.0/config/kafka_server_jaas.conf"
$ bin/kafka-server-start.sh config/server.properties
```

### kafka\_client\_jaas.conf

```
KafkaClient {
  org.apache.kafka.common.security.plain.PlainLoginModule required
  username="admin"
  password="admin-secret";
};
```

### KAFKA CLIENT:

### kafka\_client\_jaas.conf

```
KafkaClient {
  org.apache.kafka.common.security.plain.PlainLoginModule required
  username="admin"
  password="admin-secret";
};
```

## Terminal 3 (start Kafka consumer)

On a client terminal, export client jaas conf file and start consumer:

```
$ export KAFKA_OPTS="-Djava.security.auth.login.config=/home/username/Documents/kafka_2.11-0.10.1.0/kafka_client_jaas.conf"
$ ./bin/kafka-console-consumer.sh --new-consumer --zookeeper localhost:2181 --topic test-topic --from-beginning --consumer.config=config/consumer.properties --bootstrap-server=localhost:9092
```

## Terminal 4 (start Kafka producer)

If you also want to produce, do this on another terminal window:

```
$ export KAFKA_OPTS="-Djava.security.auth.login.config=/home/username/Documents/kafka_2.11-0.10.1.0/kafka_client_jaas.conf"
$ ./bin/kafka-console-producer.sh --broker-list localhost:9092 --topic test-topic --producer.config=config/producer.properties
```