* 1. Write a shell Script to upload a file in S3 bucket.

C:\Users\SAYANIK>cd ..

C:\Users>cd ..

C:\>aws

usage: aws [options] <command> <subcommand> [<subcommand> ...] [parameters]

To see help text, you can run:

aws help

aws <command> help

aws <command> <subcommand> help

aws: error: the following arguments are required: command

C:\>cd C:\aws\_s3

C:\aws\_s3>aws s3 ls

Unable to locate credentials. You can configure credentials by running "aws configure".

C:\aws\_s3>aws configure

AWS Access Key ID [None]: AKIASVO74TDMXKFIOUFJ

AWS Secret Access Key [None]: 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

Default region name [None]: us-east-1

Default output format [None]: json

C:\aws\_s3>aws s3 ls

C:\aws\_s3>aws s3 mb s3://sayanik1-cli --region us-east-1

make\_bucket: sayanik1-cli

C:\aws\_s3>dir /s /b

C:\aws\_s3\data.csv

C:\aws\_s3>aws s3 cp data.csv s3://sayanik1-cli

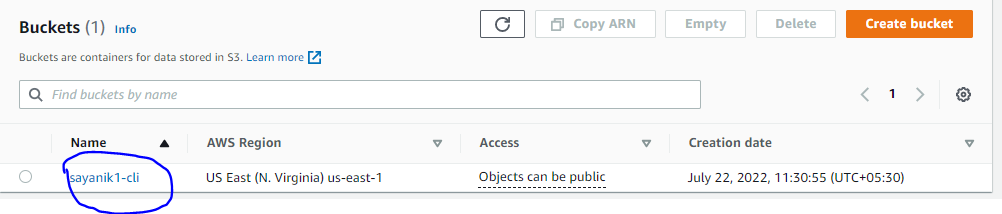
upload: .\data.csv to s3://sayanik1-cli/data.csv

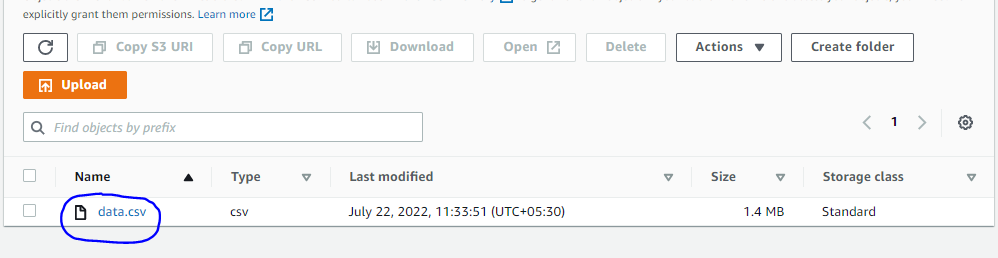
C:\aws\_s3>aws s3 ls

2022-07-22 11:30:55 sayanik1-cli

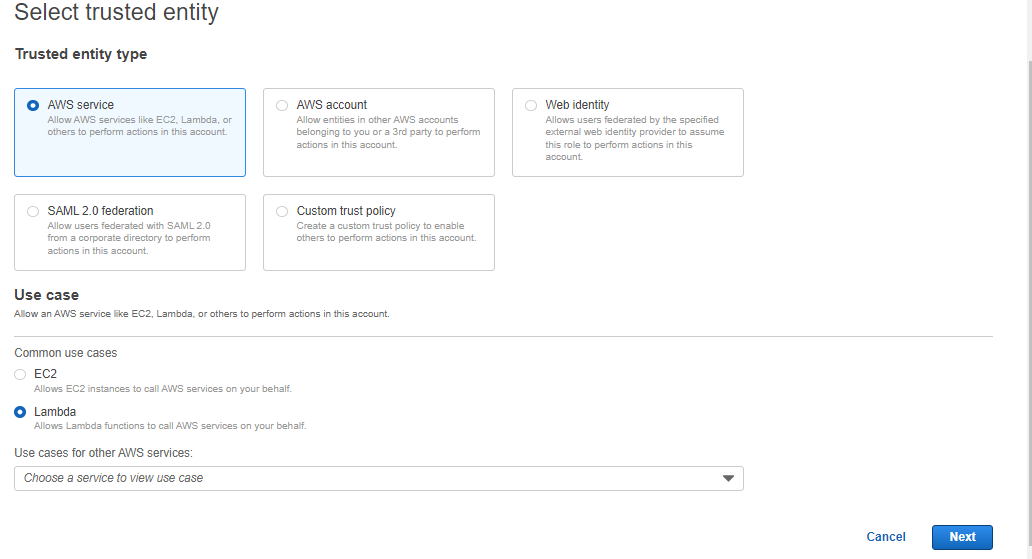
C:\aws\_s3>aws s3 ls s3://sayanik1-cli

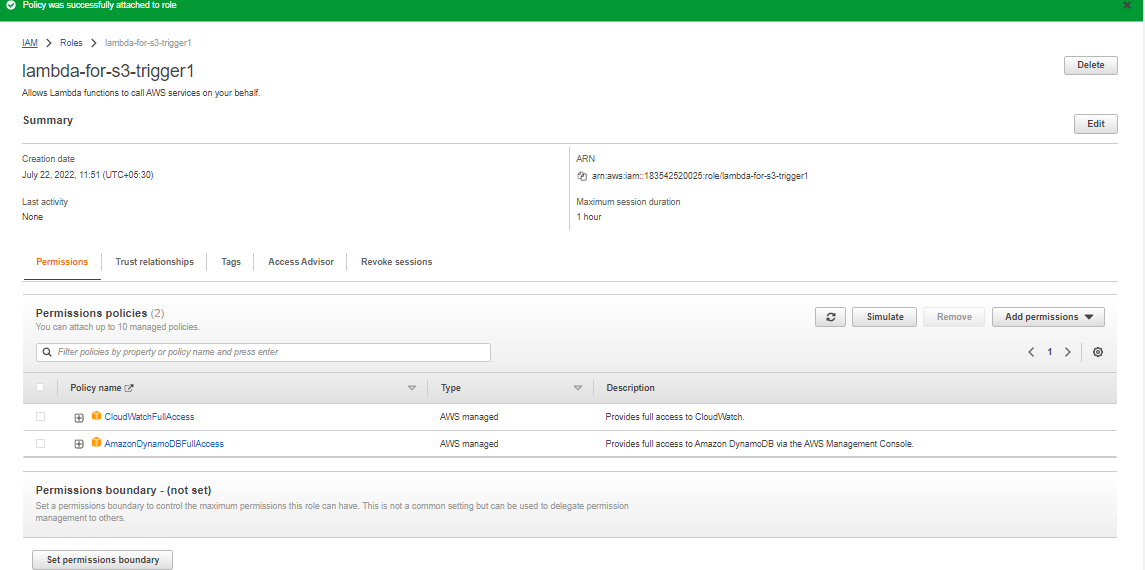
2022-07-22 11:33:51 1475504 data.csv

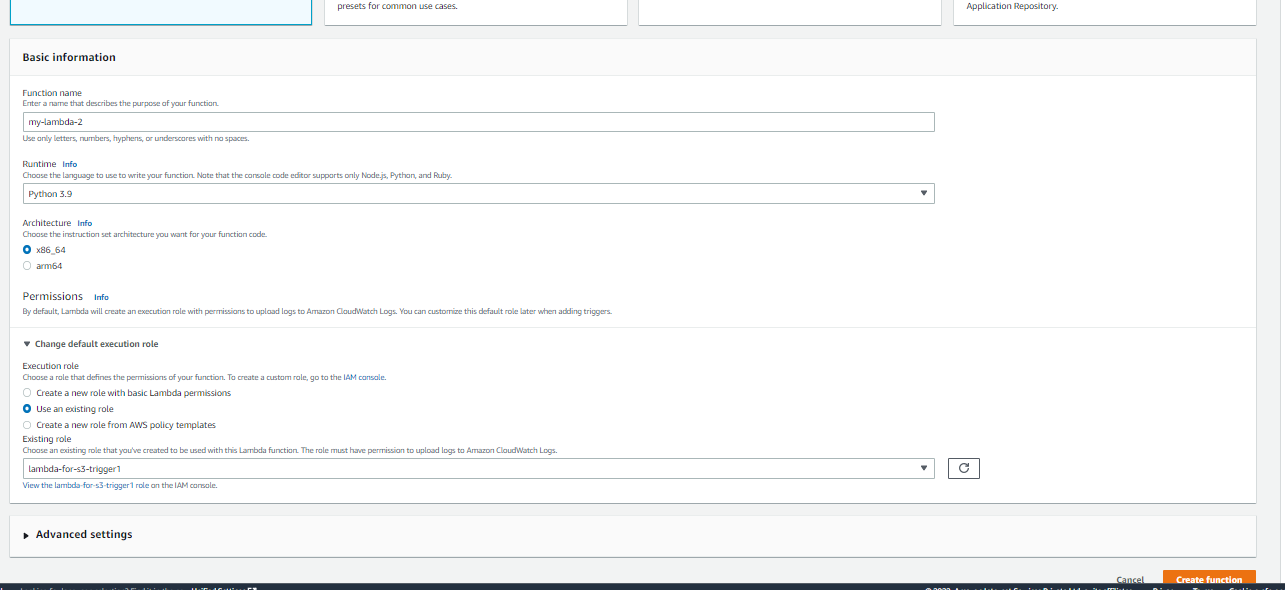


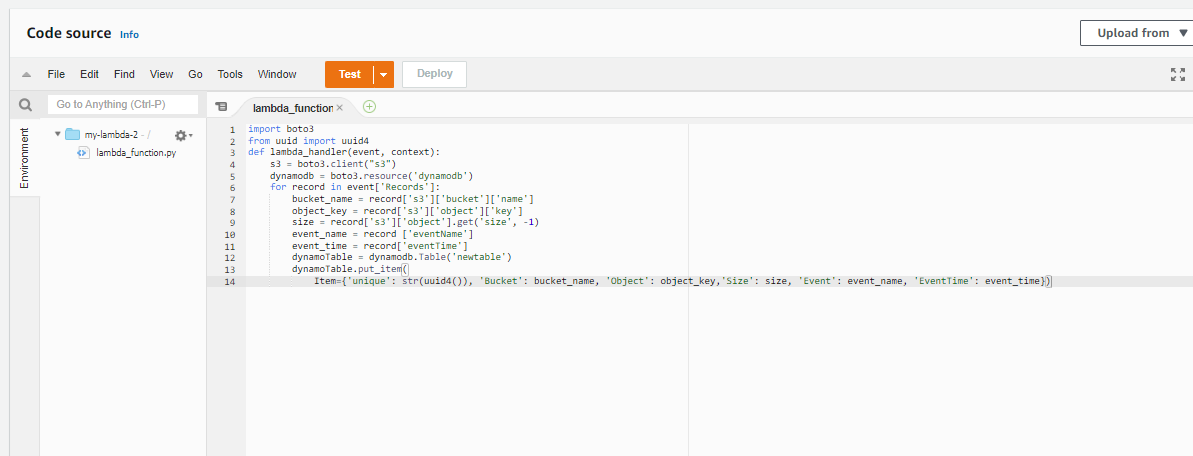


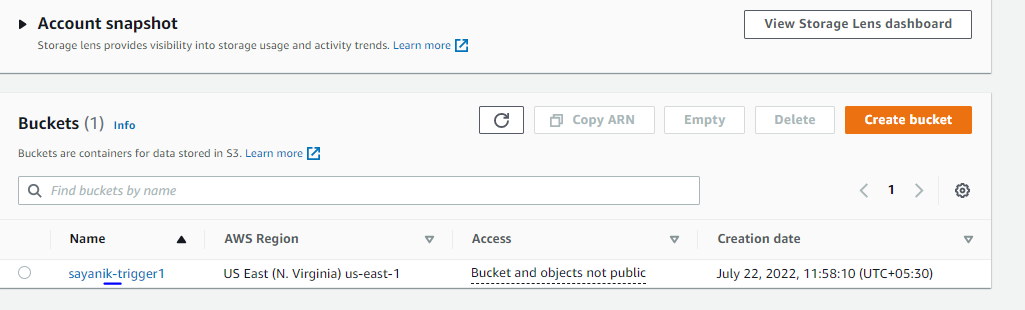
**2.Lambda Trigger with S3 bucket (inserted metadata of a object of s3 bucket into dynamo db)**

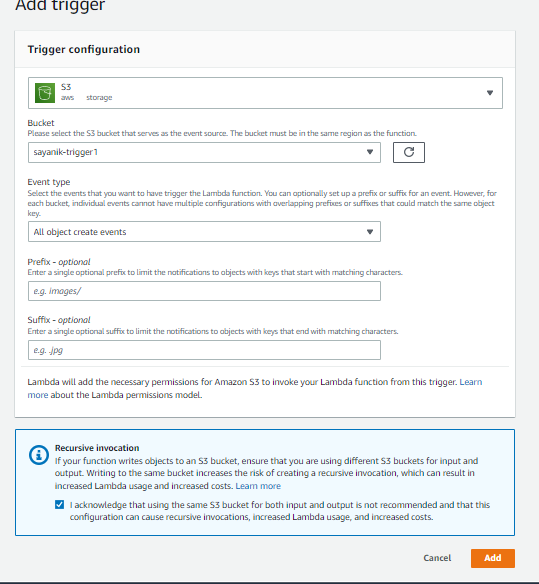
****

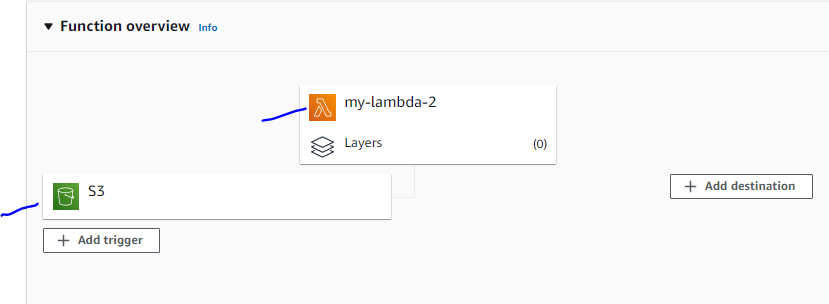
****

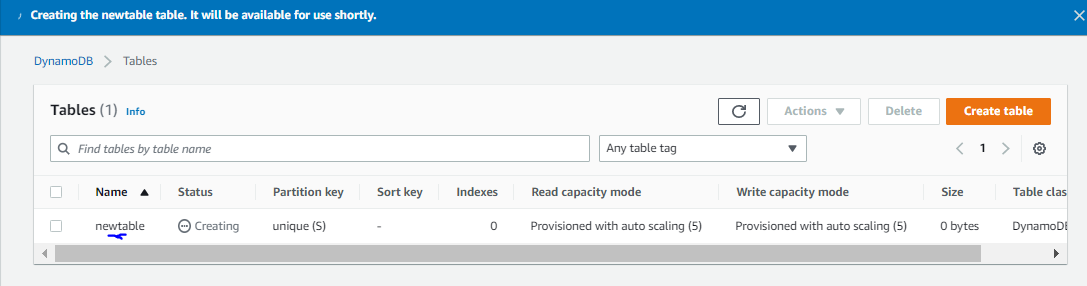
****

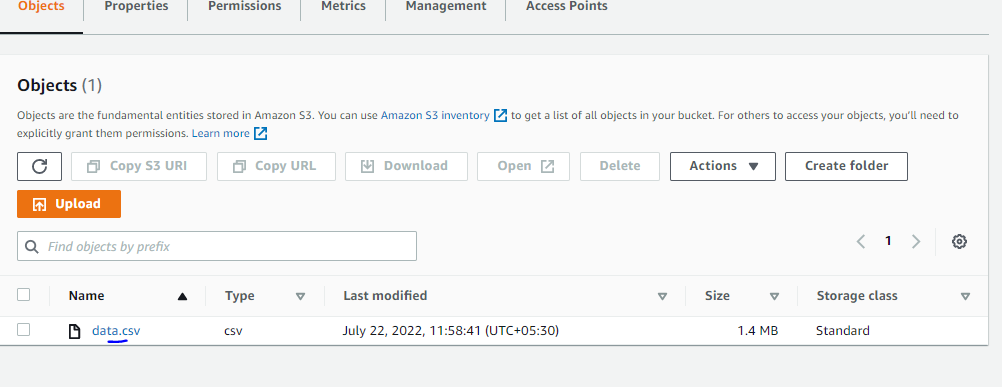
****

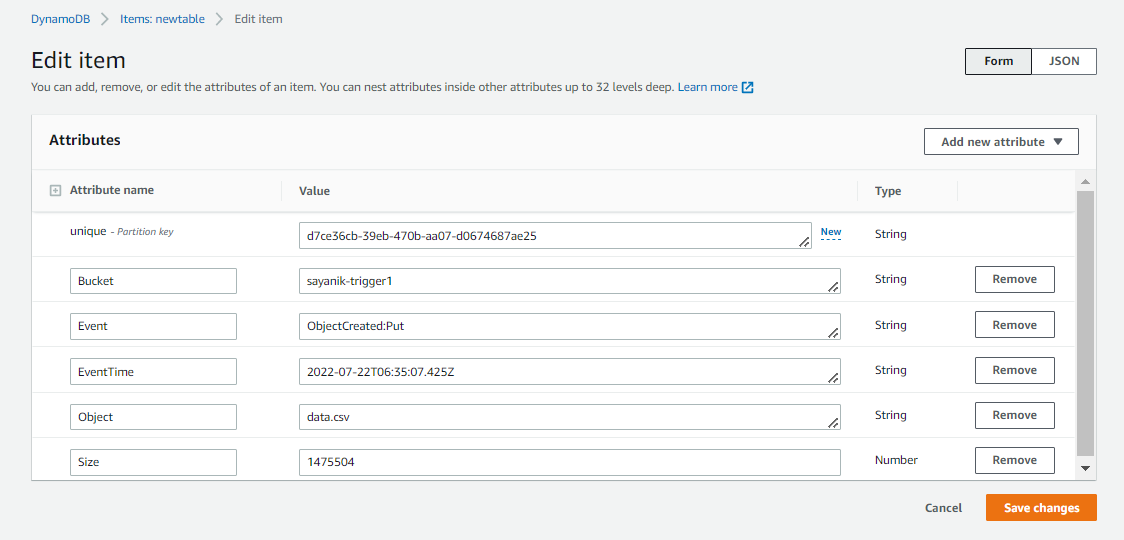
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**3.Download and install Kafka in local**

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C:\Users\SAYANIK>cd ..

C:\Users>cd ..

C:\>cd kafka

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

[2022-07-22 14:30:51,014] INFO Reading configuration from: .\config\zookeeper.properties (org.apache.zookeeper.server.quorum.QuorumPeerConfig)

[2022-07-22 14:30:51,026] INFO clientPortAddress is 0.0.0.0:2181 (org.apache.zookeeper.server.quorum.QuorumPeerConfig)

[2022-07-22 14:30:51,026] INFO secureClientPort is not set (org.apache.zookeeper.server.quorum.QuorumPeerConfig)

[2022-07-22 14:30:51,026] INFO observerMasterPort is not set (org.apache.zookeeper.server.quorum.QuorumPeerConfig)

[2022-07-22 14:30:51,026] INFO metricsProvider.className is org.apache.zookeeper.metrics.impl.DefaultMetricsProvider (org.apache.zookeeper.server.quorum.QuorumPeerConfig)

[2022-07-22 14:30:51,048] INFO autopurge.snapRetainCount set to 3 (org.apache.zookeeper.server.DatadirCleanupManager)

[2022-07-22 14:30:51,048] INFO autopurge.purgeInterval set to 0 (org.apache.zookeeper.server.DatadirCleanupManager)

[2022-07-22 14:30:51,048] INFO Purge task is not scheduled. (org.apache.zookeeper.server.DatadirCleanupManager)

[2022-07-22 14:30:51,048] WARN Either no config or no quorum defined in config, running in standalone mode (org.apache.zookeeper.server.quorum.QuorumPeerMain)

[2022-07-22 14:30:51,052] INFO Log4j 1.2 jmx support not found; jmx disabled. (org.apache.zookeeper.jmx.ManagedUtil)

[2022-07-22 14:30:51,052] INFO Reading configuration from: .\config\zookeeper.properties (org.apache.zookeeper.server.quorum.QuorumPeerConfig)

[2022-07-22 14:30:51,052] INFO clientPortAddress is 0.0.0.0:2181 (org.apache.zookeeper.server.quorum.QuorumPeerConfig)

[2022-07-22 14:30:51,052] INFO secureClientPort is not set (org.apache.zookeeper.server.quorum.QuorumPeerConfig)

[2022-07-22 14:30:51,056] INFO observerMasterPort is not set (org.apache.zookeeper.server.quorum.QuorumPeerConfig)

[2022-07-22 14:30:51,058] INFO metricsProvider.className is org.apache.zookeeper.metrics.impl.DefaultMetricsProvider (org.apache.zookeeper.server.quorum.QuorumPeerConfig)

**KAFKA starting:**

C:\Users\SAYANIK>cd ..

C:\Users>cd ..

C:\>cd kafka

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

[2022-07-22 14:36:05,372] INFO Registered kafka:type=kafka.Log4jController MBean (kafka.utils.Log4jControllerRegistration$)

[2022-07-22 14:36:06,774] INFO Setting -D jdk.tls.rejectClientInitiatedRenegotiation=true to disable client-initiated TLS renegotiation (org.apache.zookeeper.common.X509Util)

[2022-07-22 14:36:07,374] INFO starting (kafka.server.KafkaServer)

[2022-07-22 14:36:07,377] INFO Connecting to zookeeper on localhost:2181 (kafka.server.KafkaServer)

[2022-07-22 14:36:07,449] INFO [ZooKeeperClient Kafka server] Initializing a new session to localhost:2181. (kafka.zookeeper.ZooKeeperClient)

[2022-07-22 14:36:07,473] INFO Client environment:zookeeper.version=3.6.3--6401e4ad2087061bc6b9f80dec2d69f2e3c8660a, built on 04/08/2021 16:35 GMT (org.apache.zookeeper.ZooKeeper)

[2022-07-22 14:36:07,473] INFO Client environment:host.name=DESKTOP-E5659VU (org.apache.zookeeper.ZooKeeper)

[2022-07-22 14:36:07,474] INFO Client environment:java.version=18.0.2 (org.apache.zookeeper.ZooKeeper)

[2022-07-22 14:36:07,474] INFO Client environment:java.vendor=Oracle Corporation (org.apache.zookeeper.ZooKeeper)

[2022-07-22 14:36:07,474] INFO Client environment:java.home=C:\Program Files\Java\jdk-18.0.2 (org.apache.zookeeper.ZooKeeper)

**Create Topics:**

C:\kafka>.\bin\windows\kafka-topics.bat --create --topic TestTopic --bootstrap-server localhost:9092

Created topic TestTopic.

C:\kafka>.\bin\windows\kafka-topics.bat --create --topic NewTopic --bootstrap-server localhost:9092

Created topic NewTopic.

**List of topics:**

C:\kafka>.\bin\windows\kafka-topics.bat --list --bootstrap-server localhost:9092

NewTopic

TestTopic

**Create message into the topic (producer):**

C:\>cd kafka

C:\kafka>.\bin\windows\kafka-console-producer.bat --broker-list localhost:9092 --topic TestTopic

>welcome to kafka first session

>input data

>happy learning!!

**Create consumer which consumes all topics from test topic:**

C:\kafka>.\bin\windows\kafka-console-consumer.bat --bootstrap-server localhost:9092 --topic TestTopic --from-beginning

welcome to kafka first session

input data

happy learning!!

