Aws Cloud

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What is Aws Cloud

- Aws(Amazon Web Service) is a cloud computing platform.
- The first product (s3) was released in 2006.
- Aws has grown a lot since then in both size and product range.
- Aws is the largest of the cloud providers.
- Aws competence is popular in the job market.
- You can do most things in the aws cloud.
- Big community/support.

References:-

In this tutorial, i learned create Ec2 instances

ec2 is nothing but it is a compute services.

Working with crawlers on the Aws Glue console:-

In this tutorial,firstly created s3 bucket

Suppose we have a data store into the in

s3 location. So, i will take csv file that is to

Store into a our Amazon s3 location after that we try to create a crawler and then will perform a glue activity where we will perform a ETL activity

And we are try to store this data into a json format.

Aws Athena:-

It is a severless query engine.

Example:- Firstly create a glue crawler and this

Glue crawler will go the s3 location and it will create

One table now on top of that we will directly connect

with the athena and we will do a query and we will try to do some kind of analysis.

Stock Market Real-Time Data Analysis Using Kafka

In this tutorial i am using kafka server and

Zookeeper.

Commands:-

Install kafka server:-

wget https://archive.apache.org/dist/kafka/3.3.1/kafka_2.12-3.3.1.tgz

tar -xvf kafka_2.12-3.3.1.tgz

Install java:-

sudo yum install java-1.8.0-amazon-corretto-devel

cd kafka_2.12-3.3.1

Start Zoo-keeper:

bin/zookeeper-server-start.sh config/zookeeper.properties

Open another window to start kafka

But first ssh to to your ec2 machine as done above

Start Kafka-server:

Duplicate the session & enter in a new console --

export KAFKA_HEAP_OPTS="-Xmx256M -Xms128M"

cd kafka_2.12-3.3.1

bin/kafka-server-start.sh config/server.properties

It is pointing to private server , change server.properties so that it can run in public IP

To do this , you can follow any of the 2 approaches shared below--

Do a "sudo nano config/server.properties" - change ADVERTISED_LISTENERS to public ip of the EC2 instance

Create the topic:

Duplicate the session & enter in a new console --

cd kafka_2.12-3.3.1

bin/kafka-topics.sh --create --topic demo_testing2 --bootstrap-server {Put the Public IP of your EC2 Instance:9092} --replication-factor 1 --partitions 1

Start Producer:

bin/kafka-console-producer.sh --topic demo_testing2 --bootstrap-server {Put the Public IP of your EC2 Instance:9092}

Start Consumer:

Duplicate the session & enter in a new console --

cd kafka_2.12-3.3.1

bin/kafka-console-consumer.sh --topic demo_testing2 --bootstrap-server {Put the Public IP of your EC2 Instance:9092}