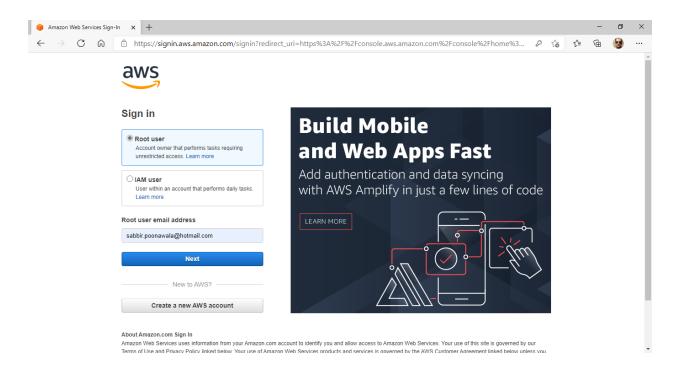
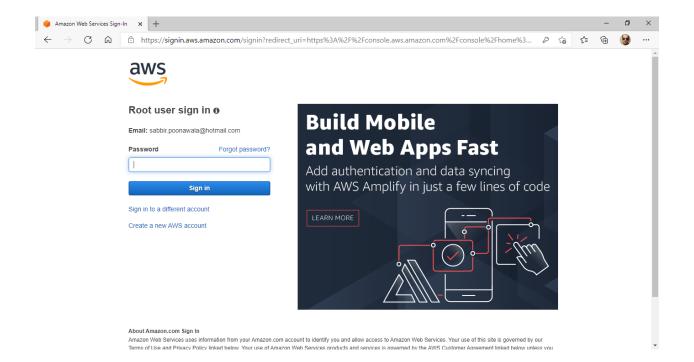
Steps to Install MongoDB on Ubuntu Amazon EC2 and access Remotely

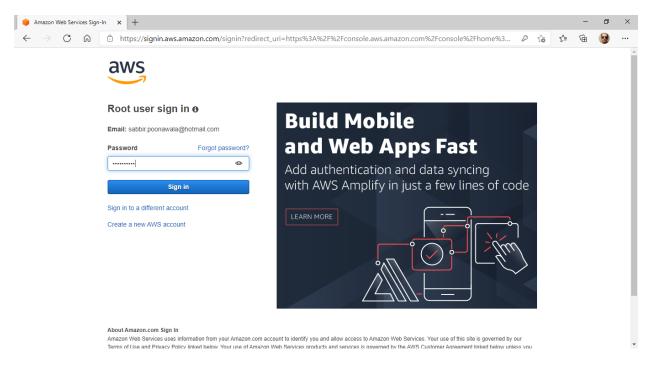
Step 1: Go to AWS Management Console (amazon.com)



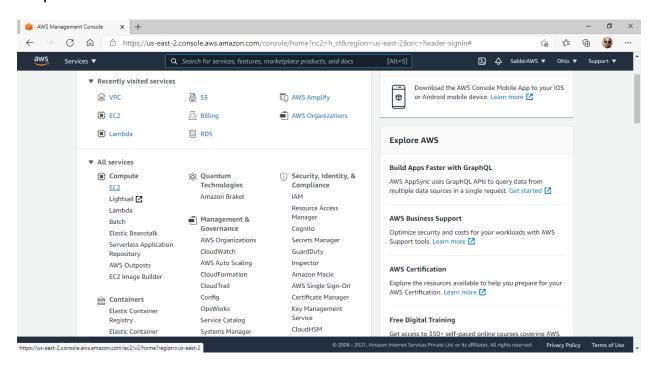
Step 2: Provide credentials



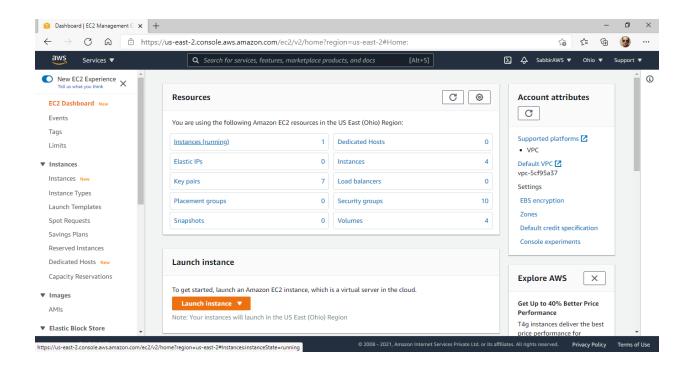




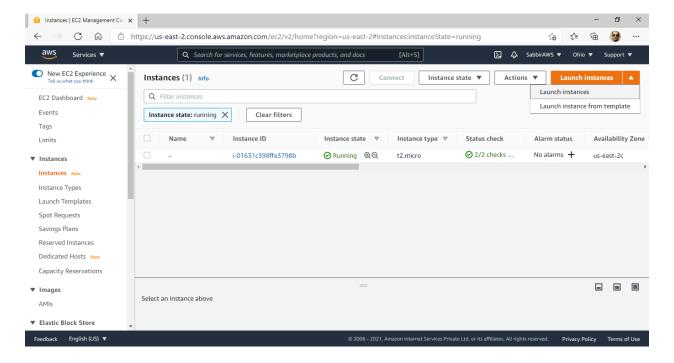
Step 3: In all services click on EC2



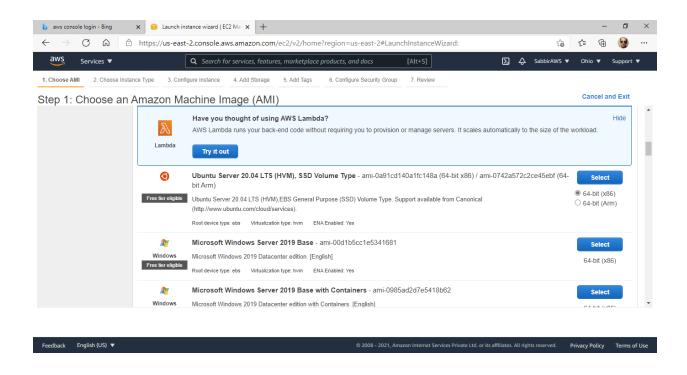
Step 4: In resources click on Instances(Running) or Launch Instance button



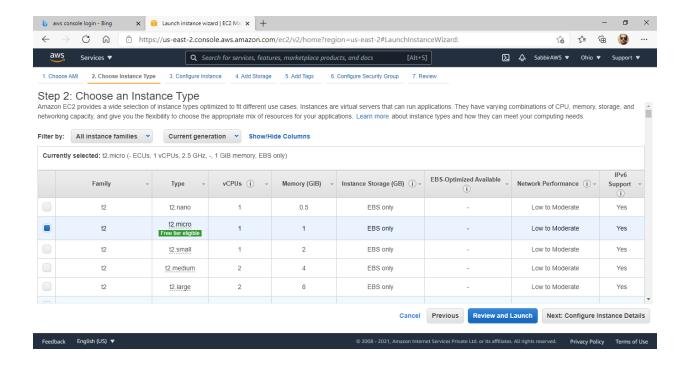
Step 5: On Lanch instances button options select Launch Instances



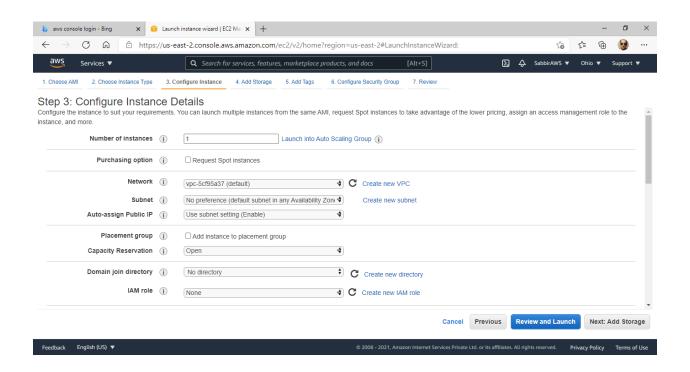
Step 6: Make sure to select Ubuntu Server 20.04 LTS (Free tier eligible)



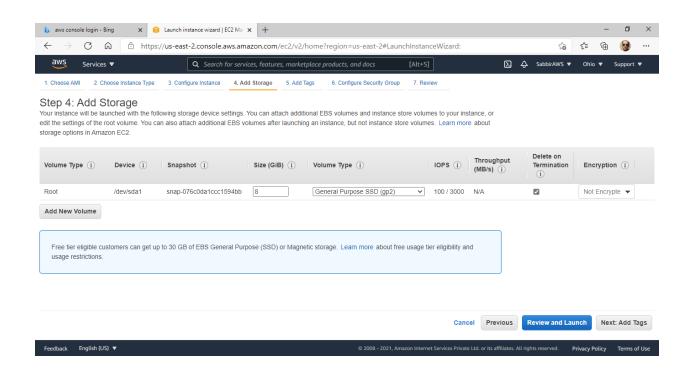
Step 7: Choose instance type (Keep default selected), Click on Next Configure instance details



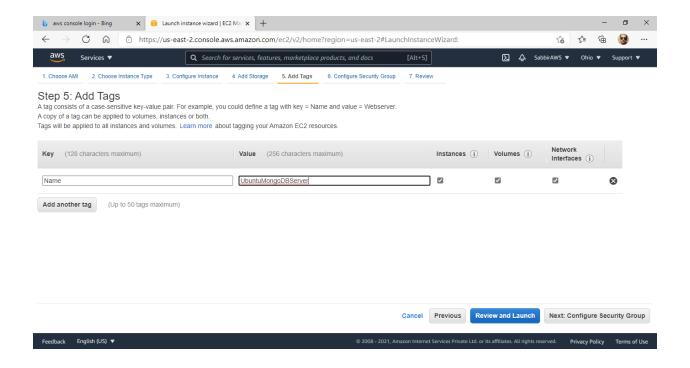
Step 8: Click on Next Add Storage keeping all details as default



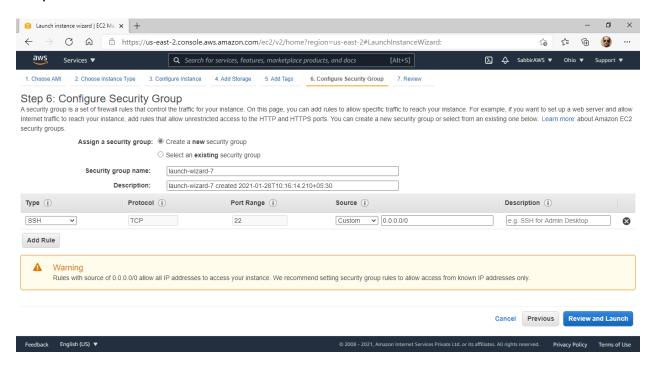
Step 8: Click on Next Add Tags keeping all details as default(unless required)



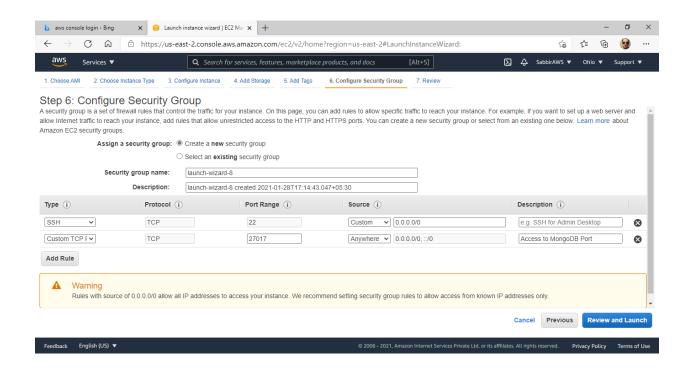
Step 8: Add key as "Name" and value as "UbuntuMongoDBServer" and click on Next Configure Security group



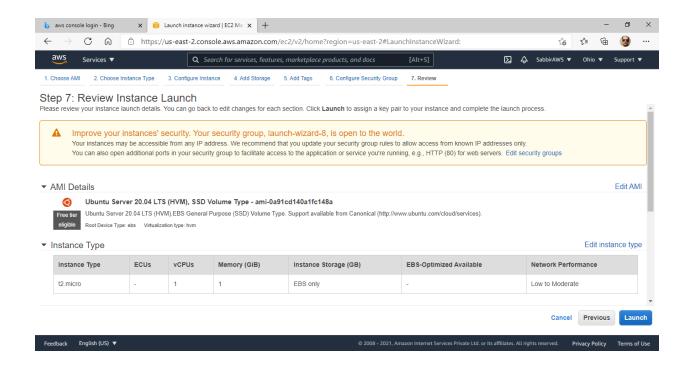
Step 9: Click on Add Rule



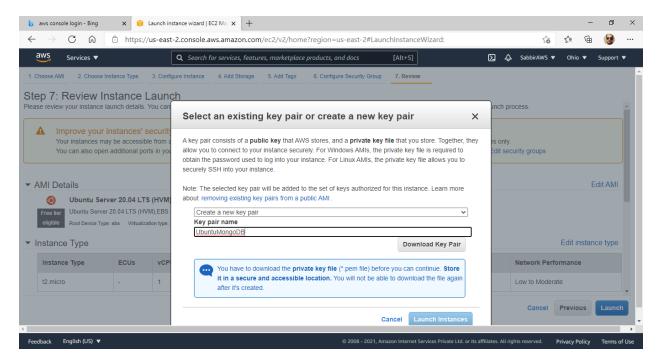
Step 9: From Type drop down box select "Custom TCP",Port Range as "27017" Source as "Anywhere" and description as "Access to MongoDB Port"



Step 10: Click on Review and Launch

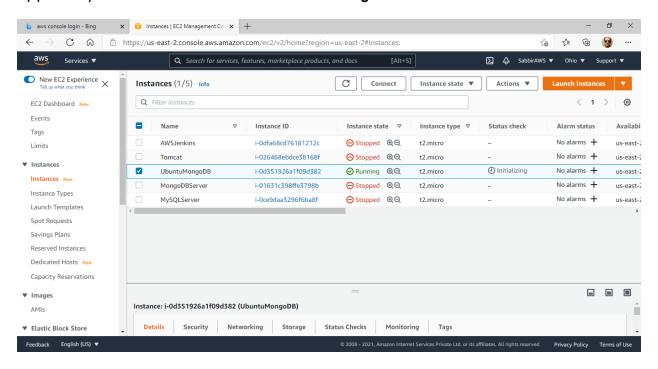


Step 11: From drop down box select "Create a new key pair" and give key pair name as "UbuntuMongoDB" and click on download key pair on desktop(This file will be required later)

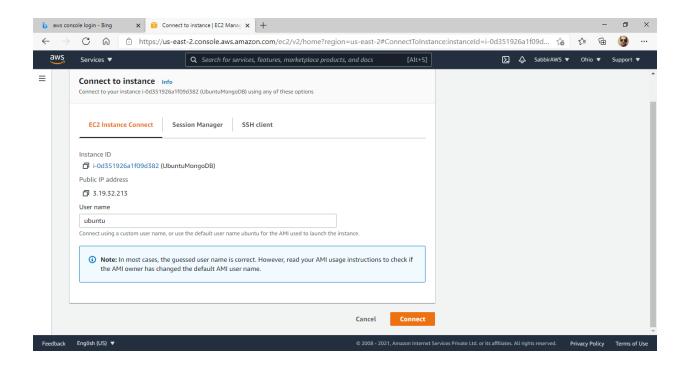


And Click on Launch Instance

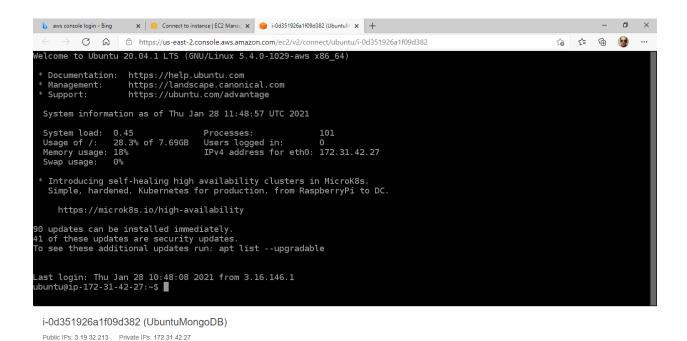
Step 12: We will use AWS CLI (Another option is to connect using putty refer to appendix) Select checkbox for instance MongoDBServer and click on connect



Step 13: Click on connect



Step 14: Ensure you are successfully connected to Ubuntu Server



Install MongoDB

Import the public key used by the package management system.

```
wget -q0 - https://www.mongodb.org/static/pgp/server-4.4.asc | sudo apt-ke
y add -
```

The operation should respond with an OK

Create a list file for MongoDB.

```
echo "deb [ arch=amd64,arm64 ] https://repo.mongodb.org/apt/ubuntu bionic/
mongodb-org/4.4 multiverse" | sudo tee /etc/apt/sources.list.d/mongodb-org
-4.4.list
```

Reload local package database.

sudo apt-get update

Install the MongoDB packages.

sudo apt-get install -y mongodb-org

Start MongoDB.

sudo systemctl start mongod

Verify that MongoDB has started successfully.

How to connect to your remote MongoDB server

1. Set up your user

```
mongo

>use OrderDB

db.createUser({
    user: 'mongouser',
    pwd: 'mongouser',
    roles: [{ role: 'readWrite', db:'OrderDB'}]
})
```

2. Enable auth and open MongoDB access up to all IPs

```
sudo vi /etc/mongod.conf
```

• Look for the net line and comment out the bindlp line under it, which is currently limiting MongoDB connections to *localhost*:

```
# network interfacesnet:port: 27017bindIp: 0.0.0.1
```

• Scroll down to the #security: section and add the following line. Make sure to un-comment the security: line.

authorization: 'enabled'

3. Open port 27017 on your EC2 instance

Go to your EC2 dashboard: https://console.aws.amazon.com/ec2/

Go to Instances and scroll down to see your instance's Security Groups. Eg, it will be something like launch-wizard-4

Go to Netword & Security -> Security Groups -> Inbound tab -> Edit button.

Make a new Custom TCP on port 27017, Source: Anywhere, 0.0.0.0/0

3. Last step: restart mongo daemon (mongod)

sudo service mongod restart

Logging in using the mongo shell on your laptop

mongo -u mongouser -p mongouser 18.219.63.21/OrderDB

```
C:\Program Files\MongoDB\Server\4.4\bin>mongo -u mongouser -p mongouser 18.219.63.21/OrderDB
```

```
C:\Program Files\MongoDB\Server\4.4\bin>mongo -u mongouser -p mongouser 18.219.63.21/OrderDB
MongoDB shell version v4.4.3
connecting to: mongodb://18.219.63.21:27017/OrderDB?compressors=disabled&gssapiServiceName=mongodb
Implicit session: session { "id" : UUID("b9b9d11a-50d6-4605-900b-5155c97303a9") }
MongoDB server version: 4.4.3

- -
```