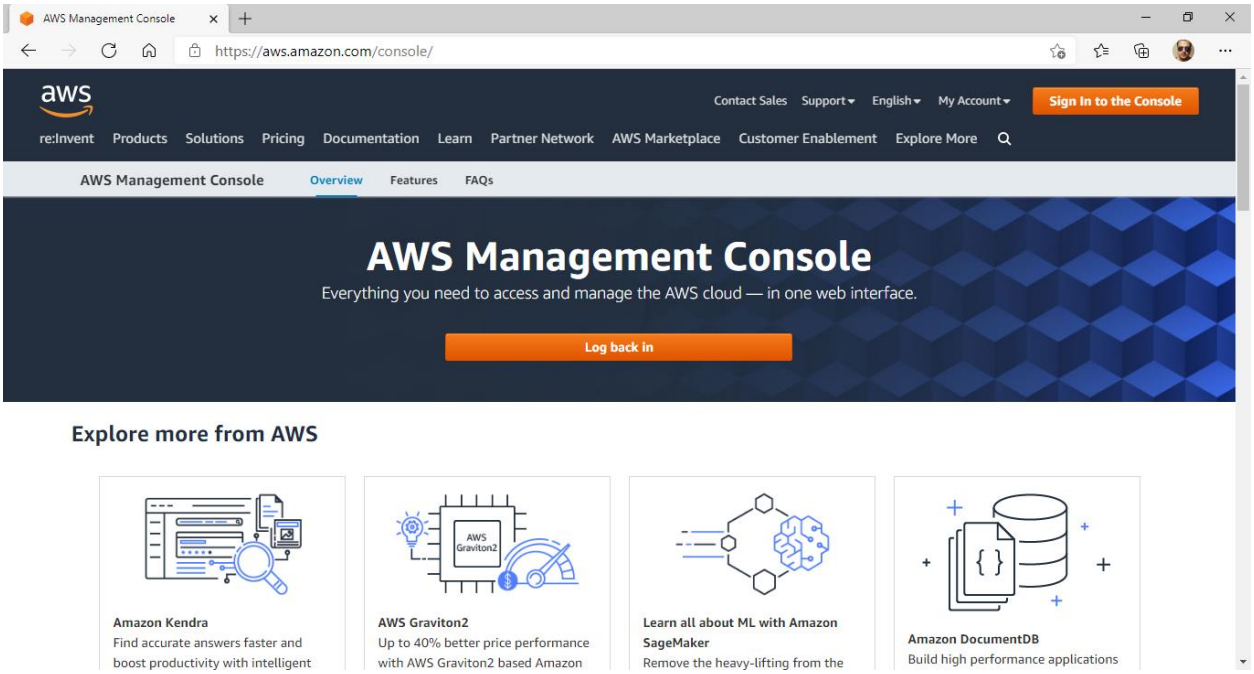
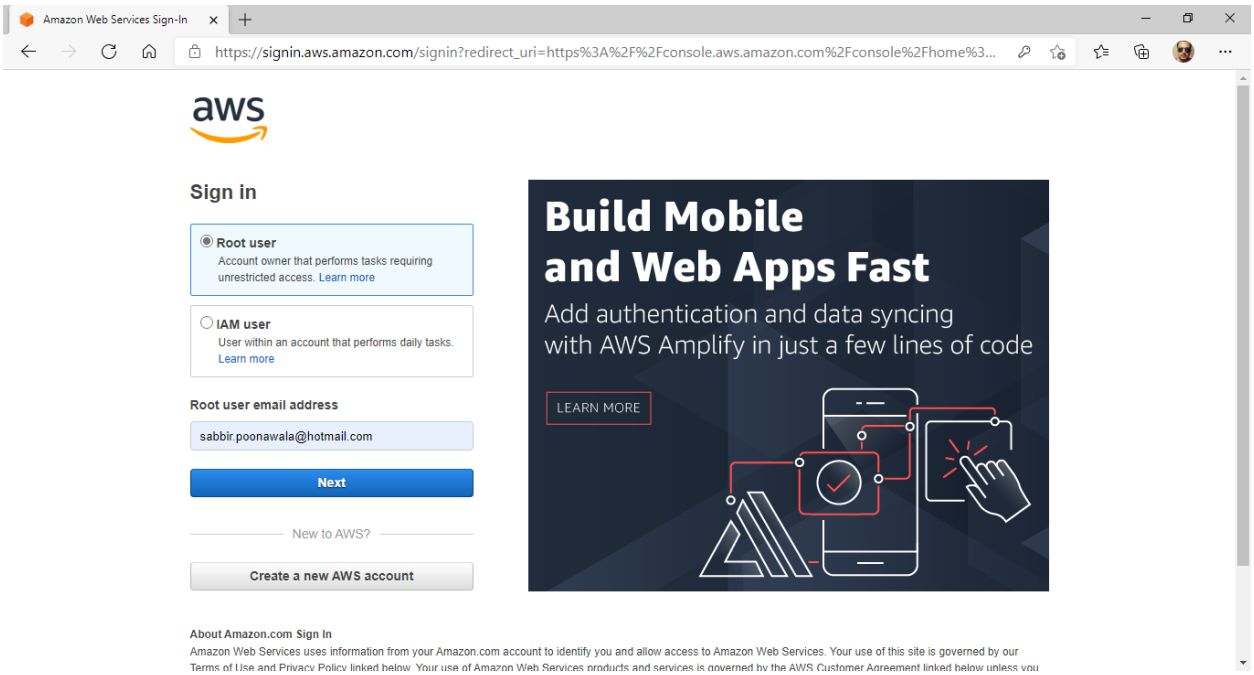
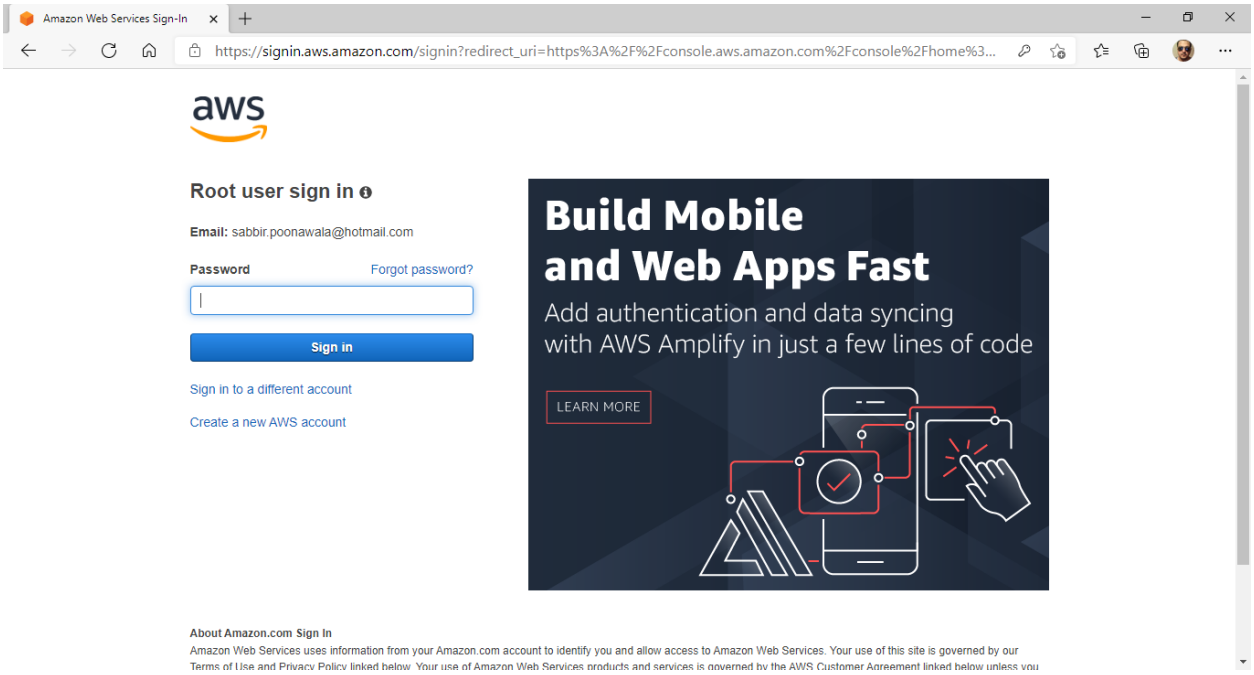
Steps to Install MongoDB on Amazon Linux EC2

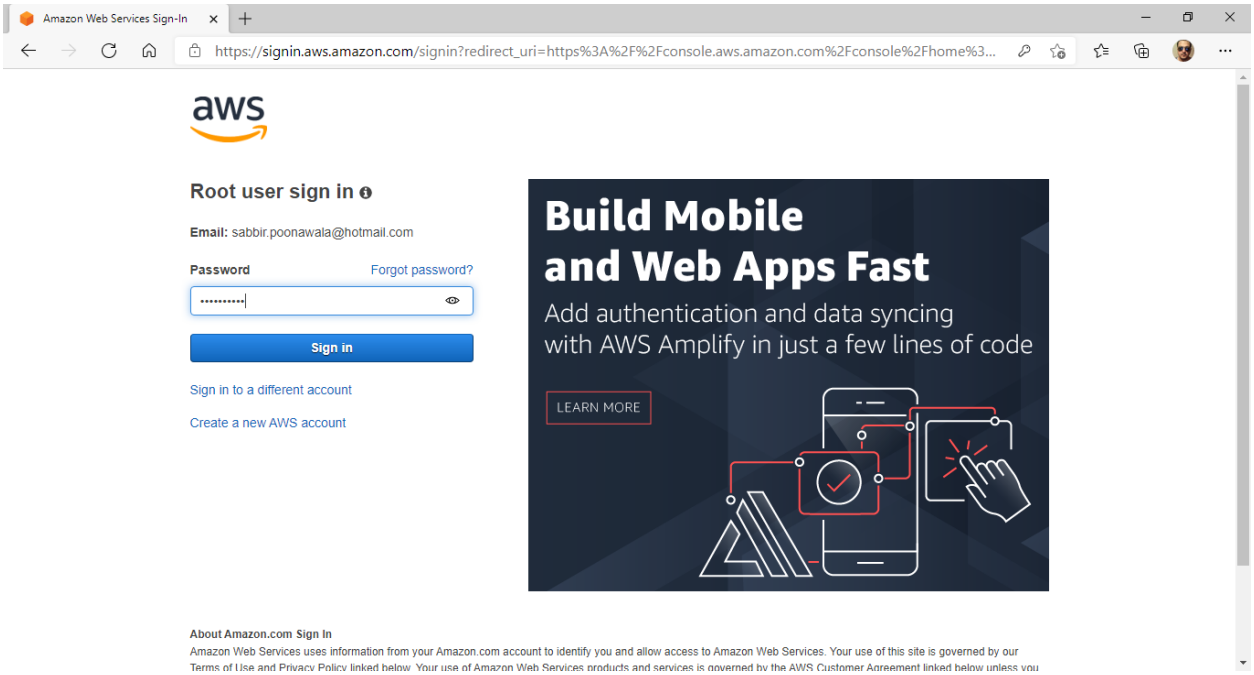
Step 1: Go to AWS Management Console (amazon.com)



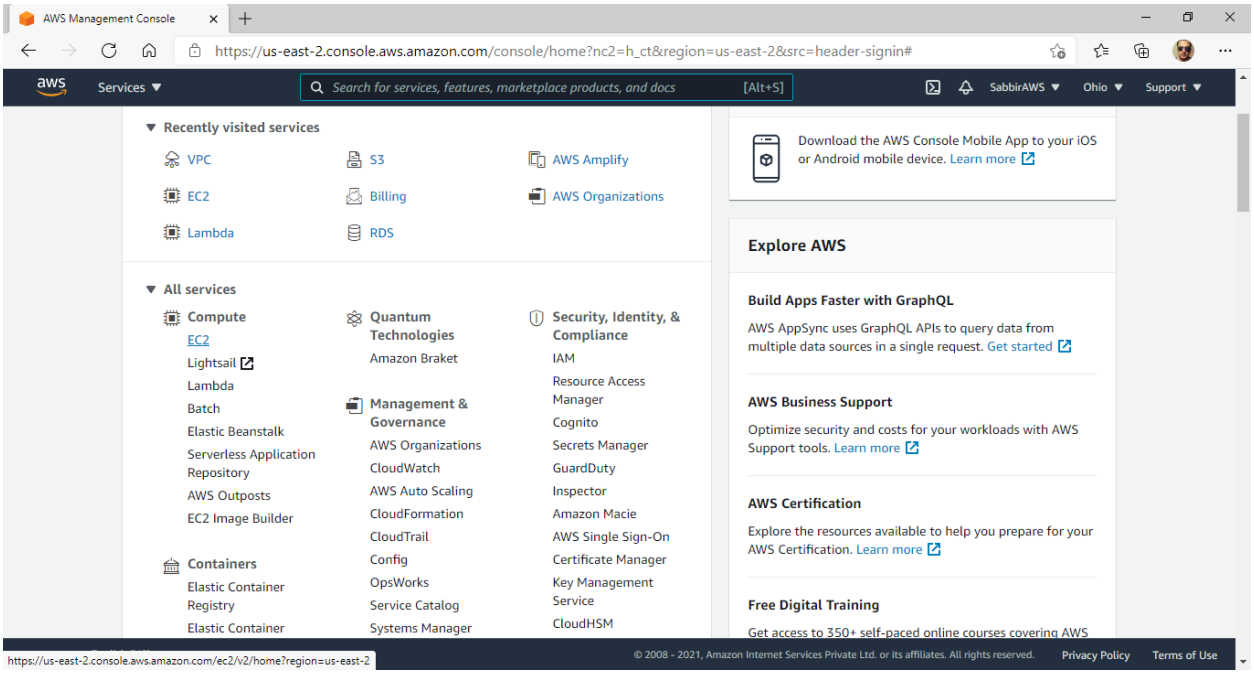
Step 2: Provide credentials


Amazon Web Services Sign-In
https://signin.aws.amazon.com/signin?redirect_uri=https%3A%2F%2Fconsole.aws.amazon.com%2Fconsole%2Fhome%3...
aws
Sign in
Root user
Account owner that performs tasks requiring unrestricted access. Learn more
IAM user
User within an account that performs daily tasks. Learn more
Root user email address
sabbir.poonawala@hotmail.com
Next
New to AWS?
Create a new AWS account
Build Mobile and Web Apps Fast
Add authentication and data syncing with AWS Amplify in just a few lines of code
LEARN MORE
About Amazon.com Sign In
Amazon Web Services uses information from your Amazon.com account to identify you and allow access to Amazon Web Services. Your use of this site is governed by our

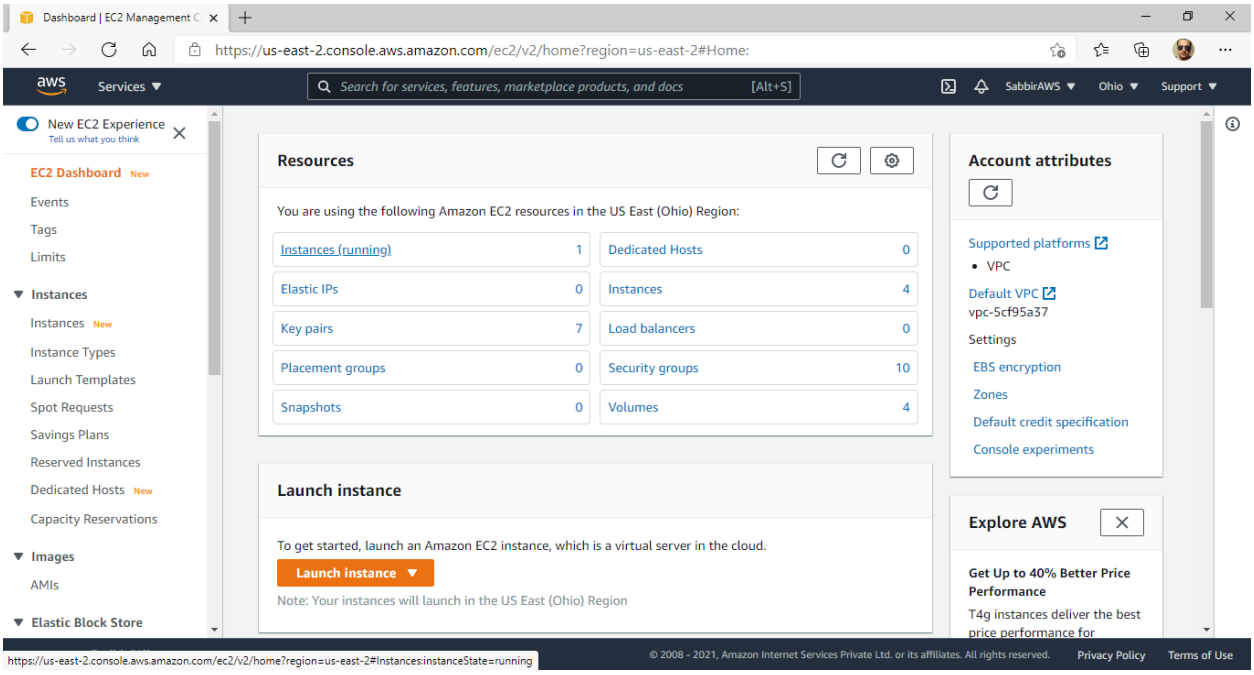

Amazon Web Services Sign-In
https://signin.aws.amazon.com/signin?redirect_uri=https%3A%2F%2Fconsole.aws.amazon.com%2Fconsole%2Fhome%3...
aws
Root user sign in
Email: sabbir.poonawala@hotmail.com
Password
Forgot password?
Sign in
Sign in to a different account
Create a new AWS account
Build Mobile and Web Apps Fast
Add authentication and data syncing with AWS Amplify in just a few lines of code
LEARN MORE
About Amazon.com Sign In
Amazon Web Services uses information from your Amazon.com account to identify you and allow access to Amazon Web Services. Your use of this site is governed by our



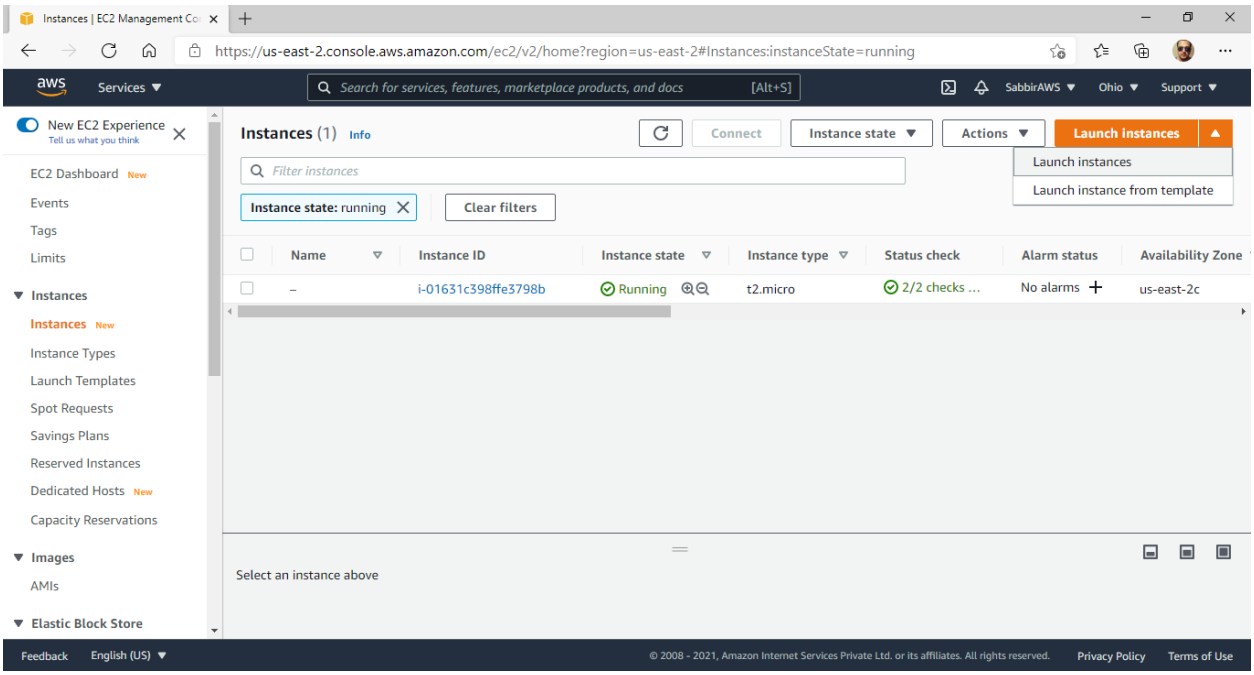
Step 3: In all services click on EC2



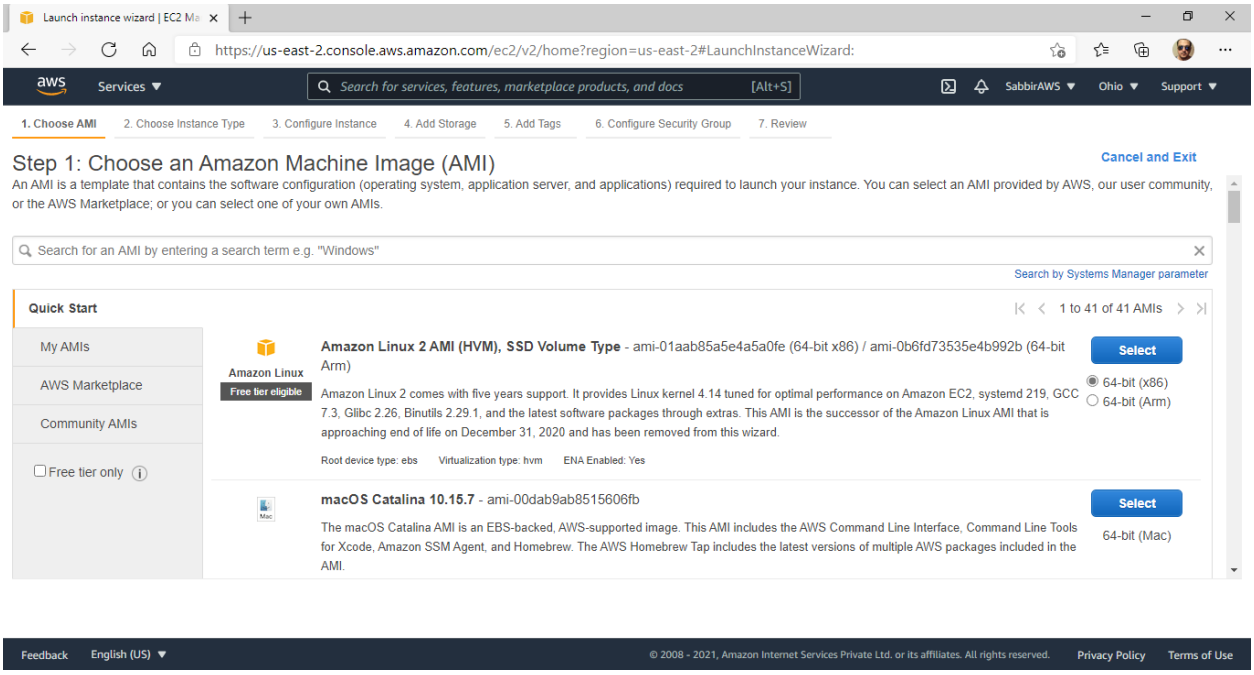
Step 4: In resources click on Instances(Running) or Launch Instance button



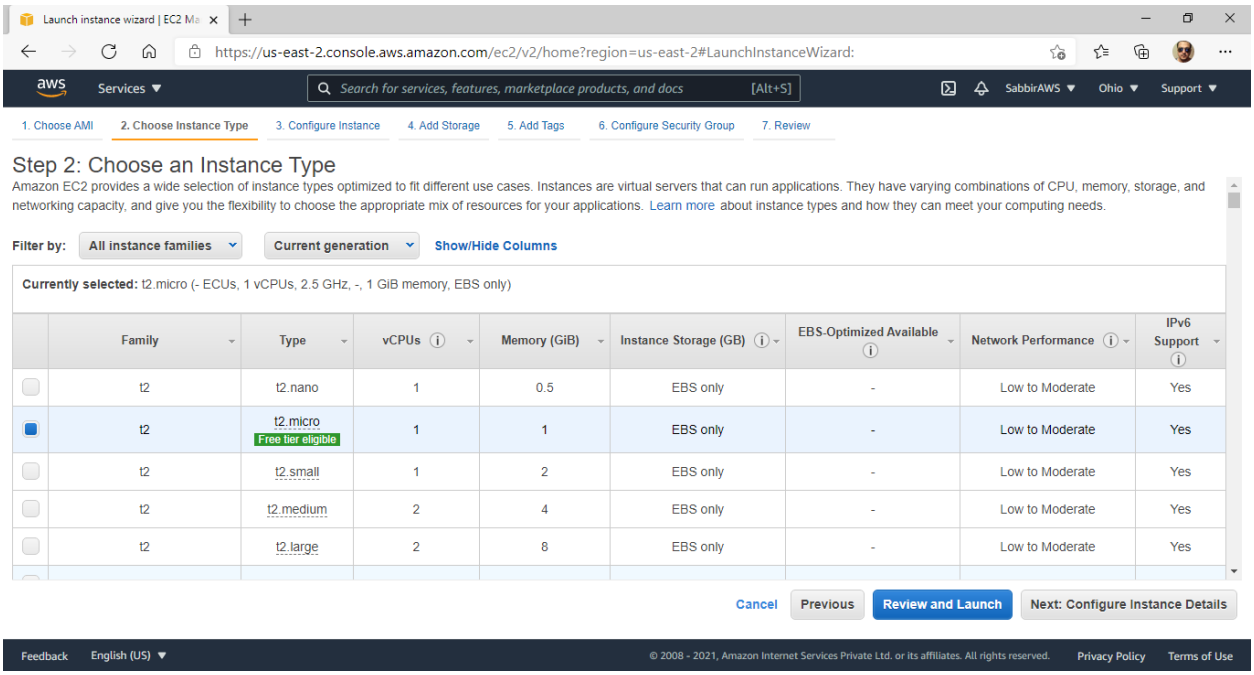
Step 5: On Lanch instances button options select Launch Instances



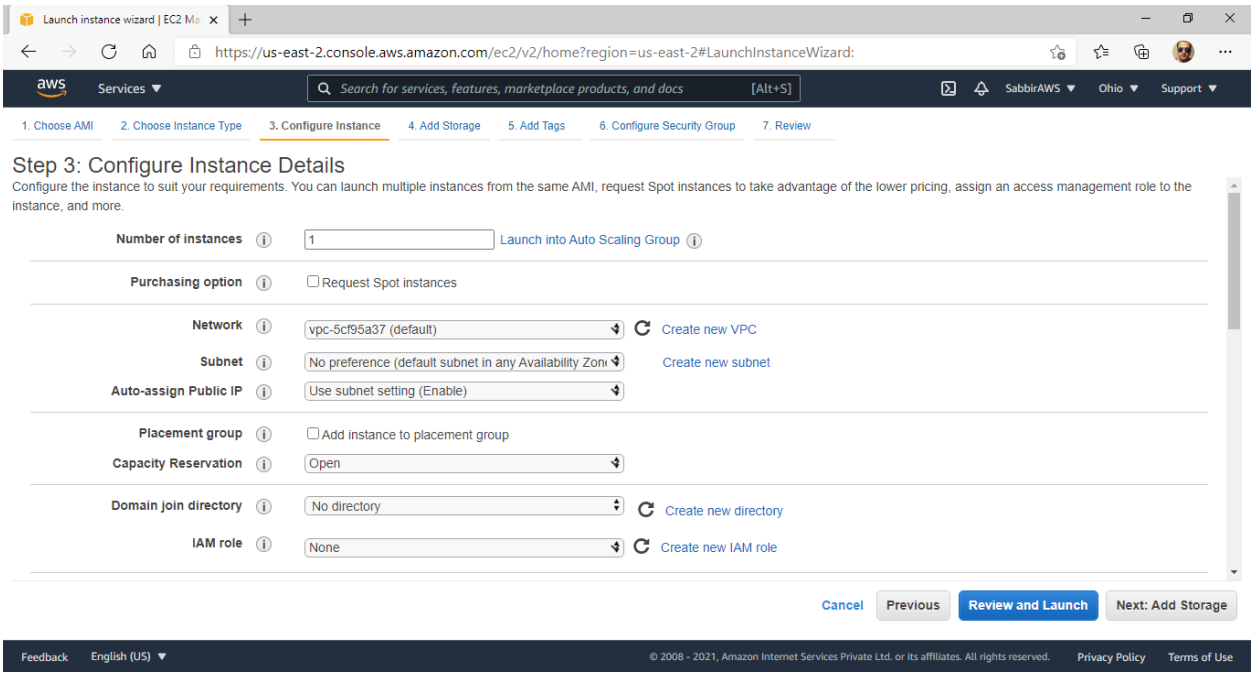
Step 6: Make sure to select Amazon Linux 2 AMI (Free tier eligible)



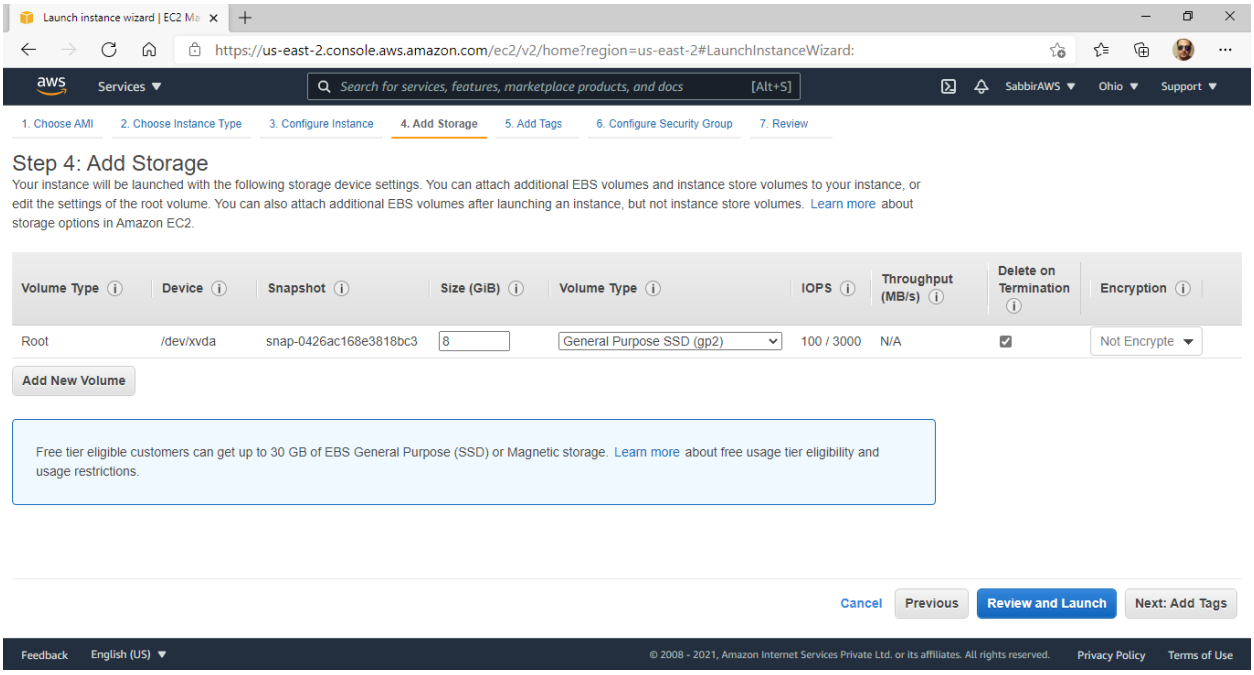
Step 7: Choose instance type (Keep default selected), Click on Next Configure instance details



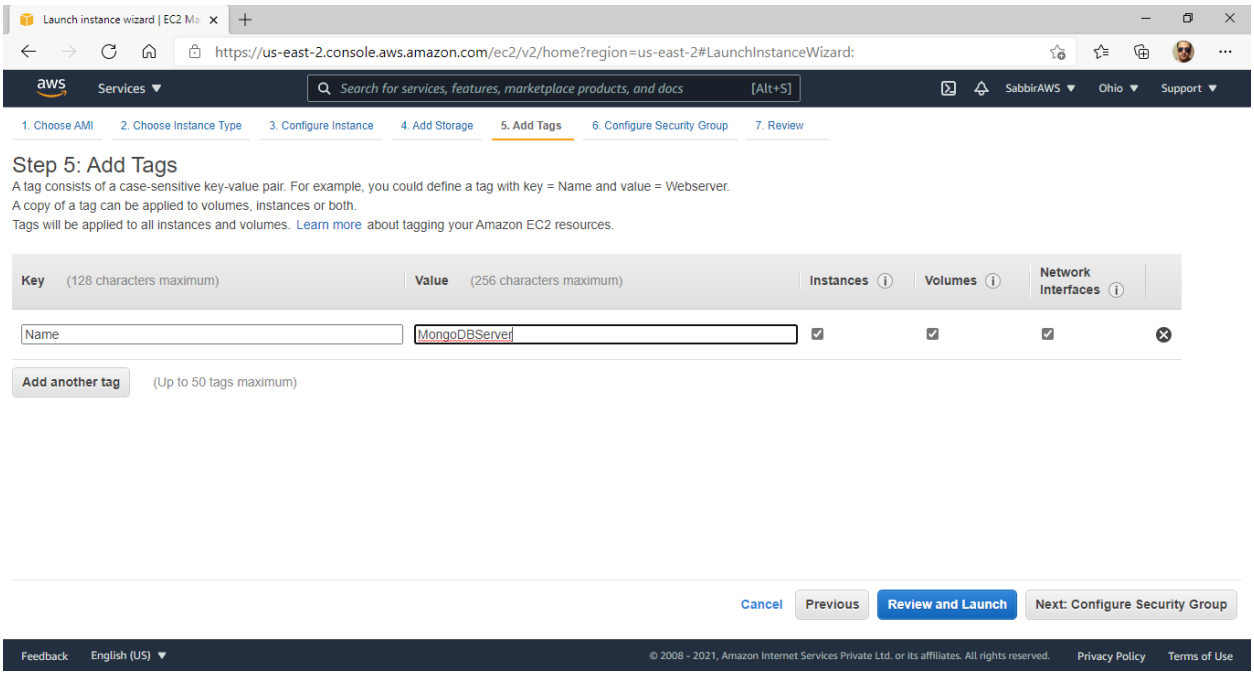
Step 8: Click on Next Add Storage keeping all details as default



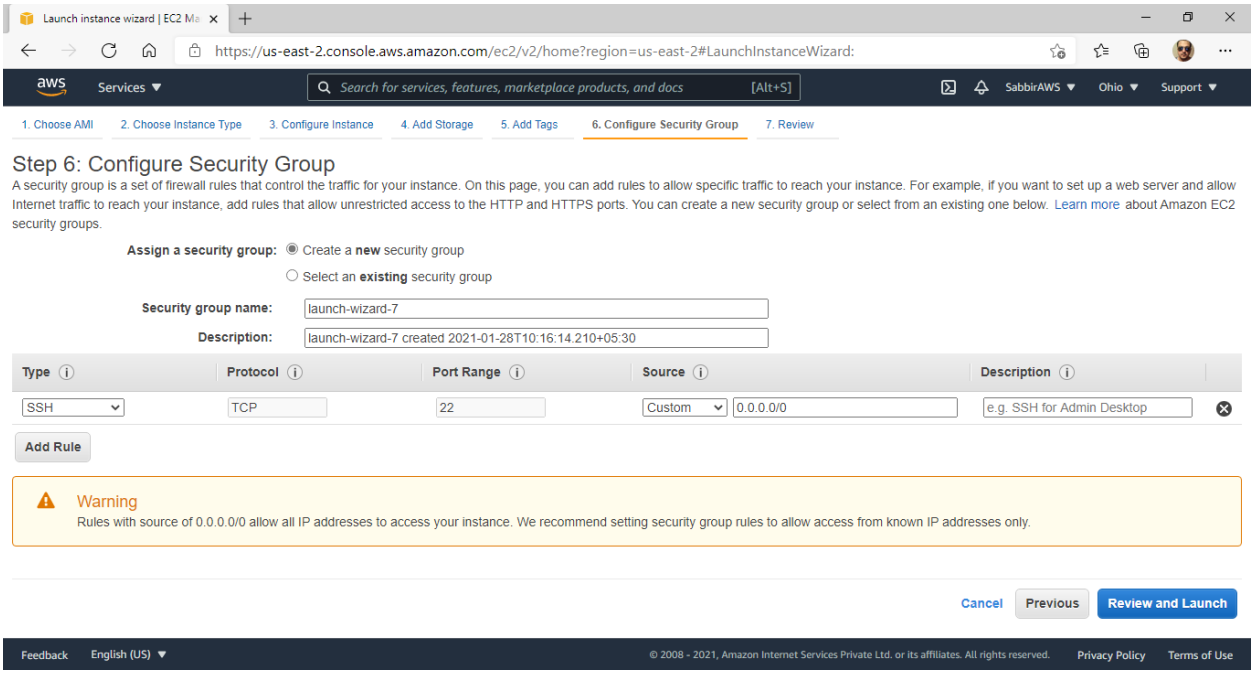
Step 8: Click on Next Add Tags keeping all details as default(unless required)



Step 8: Add key as “Name” and value as “MongoDBServer” and click on Next Configure Security group

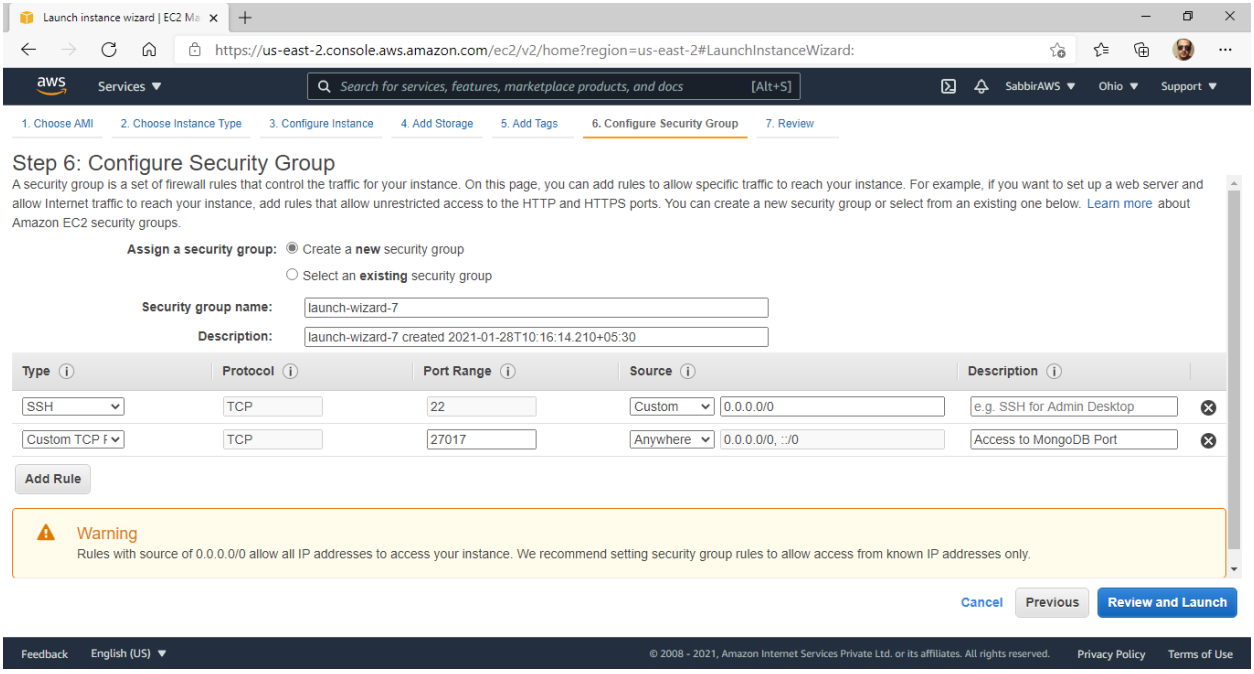


Step 9: Click on Add Rule



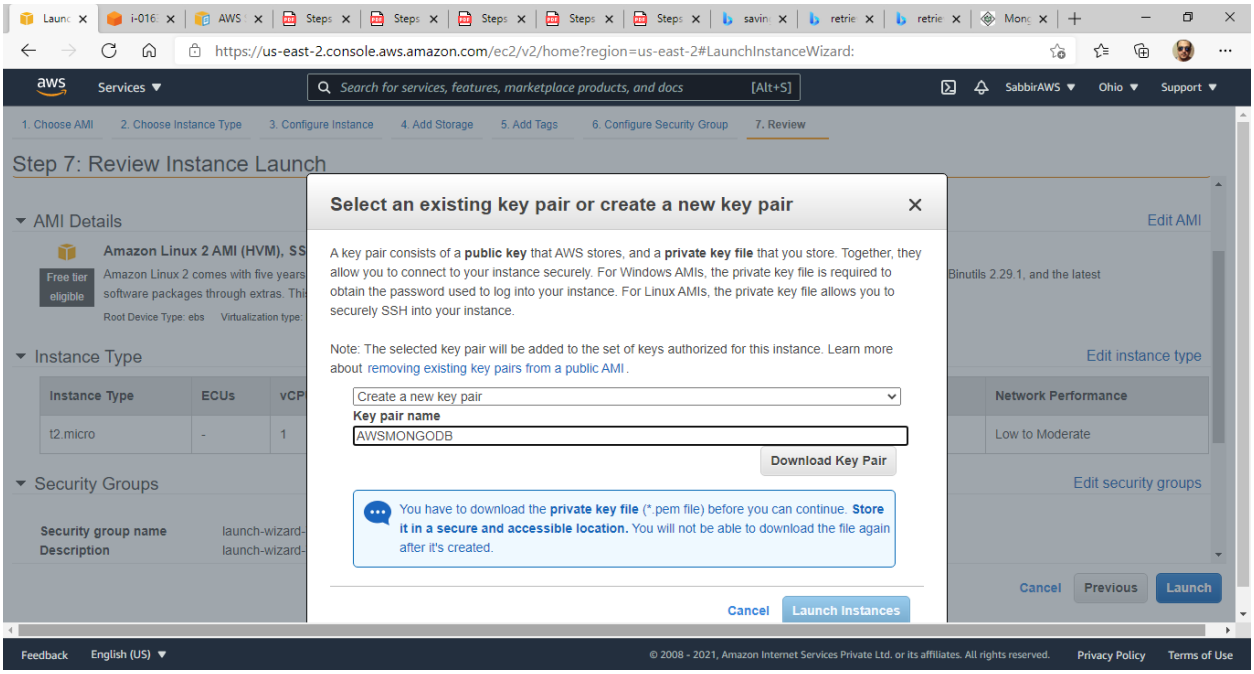
Step 9: From Type drop down box select “Custom TCP”,Port Range as “27017”

Source as “Anywhere” and description as “Access to MongoDB Port”



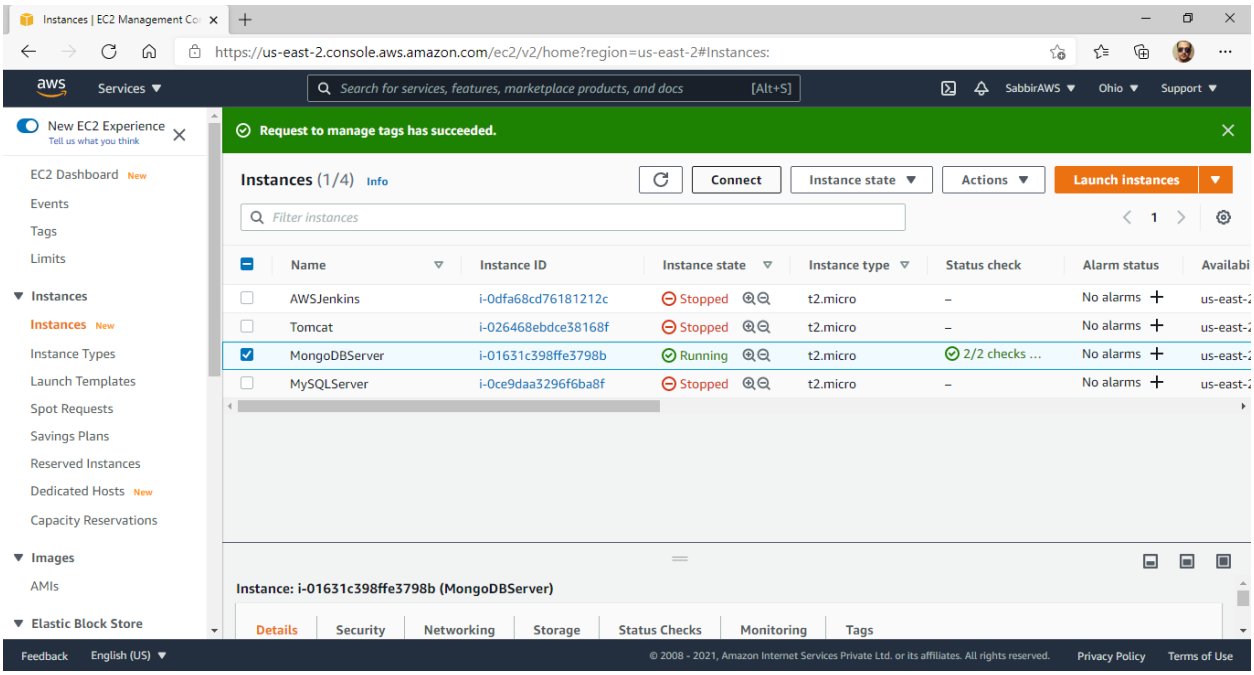
Step 10: Click on Review and Launch

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

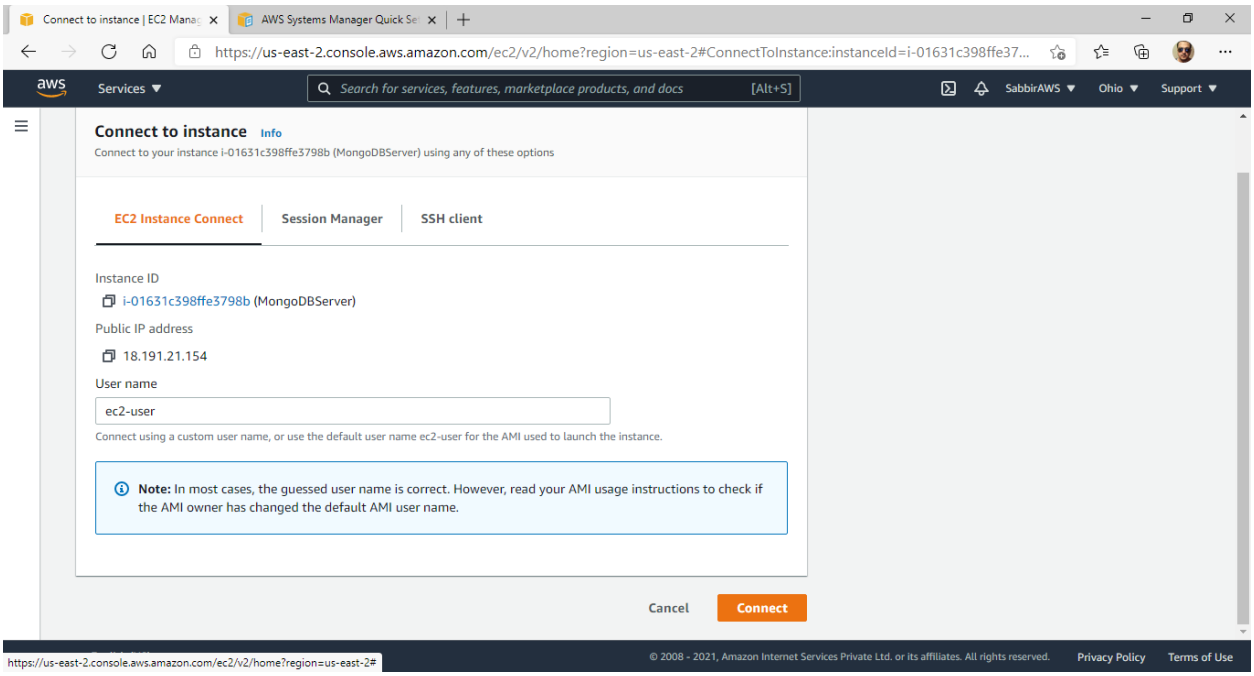


And Click on Launch Instance

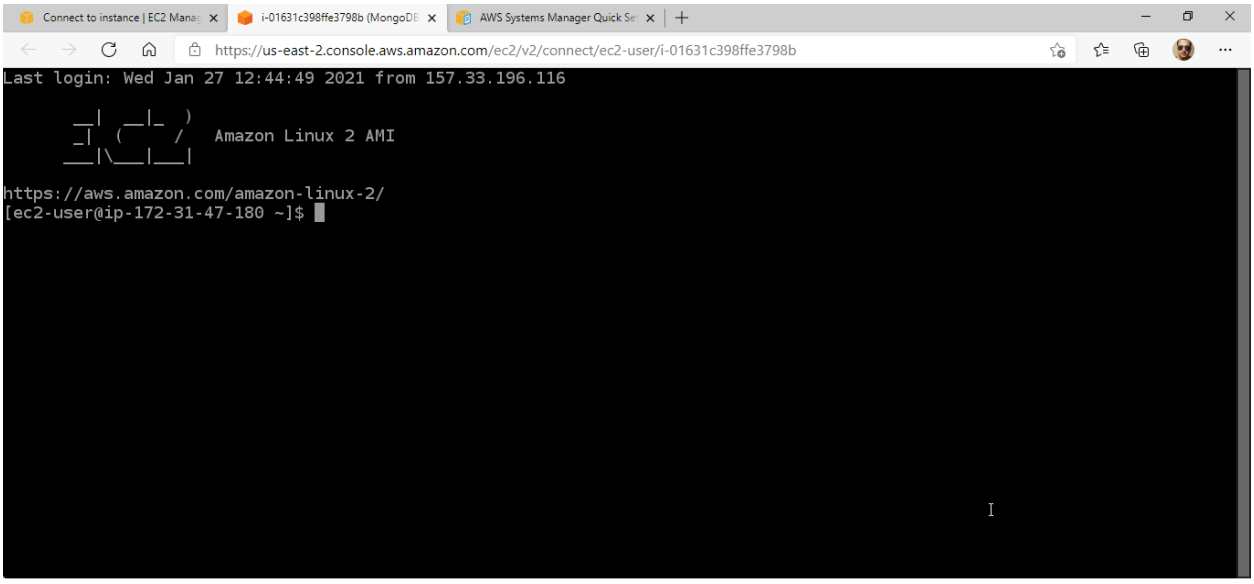
Step 12: We will use AWS CLI (Another option is to connect using putty refer to appendix) Select checkbox for instance MongoDBServer and click on connect



Step 13: Click on connect



Step 14: Ensure you are successfully connected to Amazon Linux 2 AMI



Step 15: Create YUM repository for installing MongoDB

Type -> **sudo vi /etc/yum.repos.d/mongodb-org-4.2.repo**

Step 16: In vi editor,

Type->

[mongodb-org-4.2]

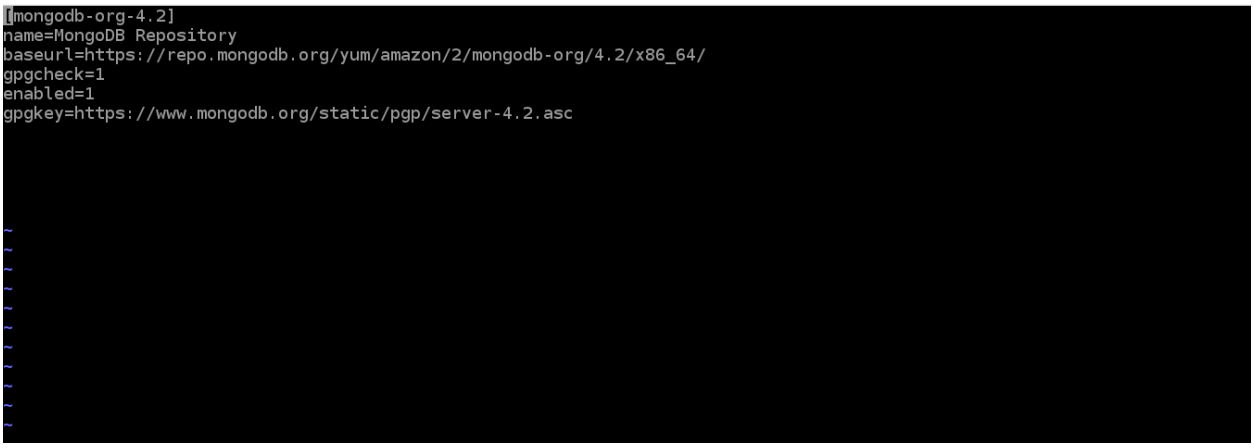
name=MongoDB Repository

baseurl=https://repo.mongodb.org/yum/amazon/2/mongodb-org/4.2/x86_64/

gpgcheck=1

enabled=1

gpgkey=https://www.mongodb.org/static/pgp/server-4.2.asc



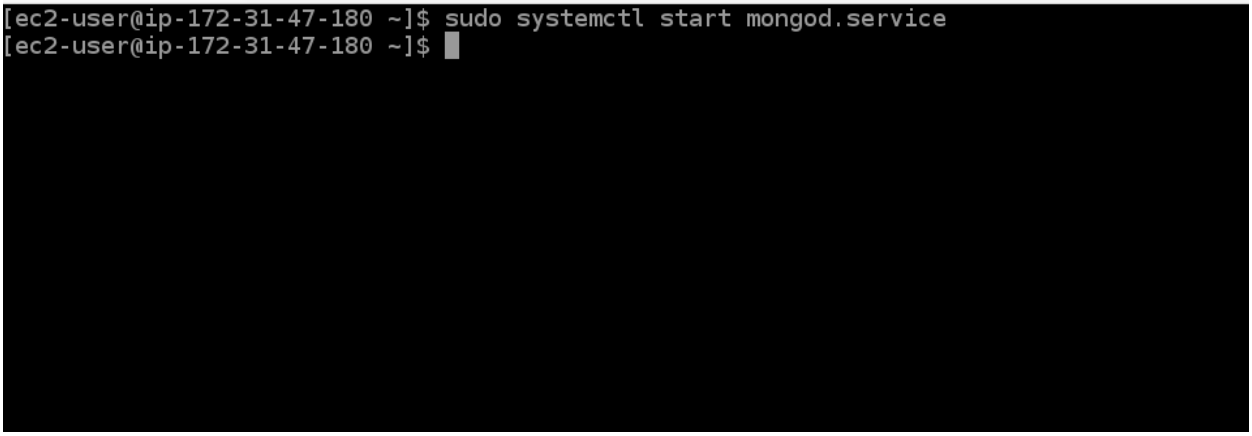
Step 17: In vi editor press “ESC” and type :x to save and exit

Step 18: YUM Command to install MongoDB for Amazon Linux

Type-> **sudo yum install -y mongodb-org**

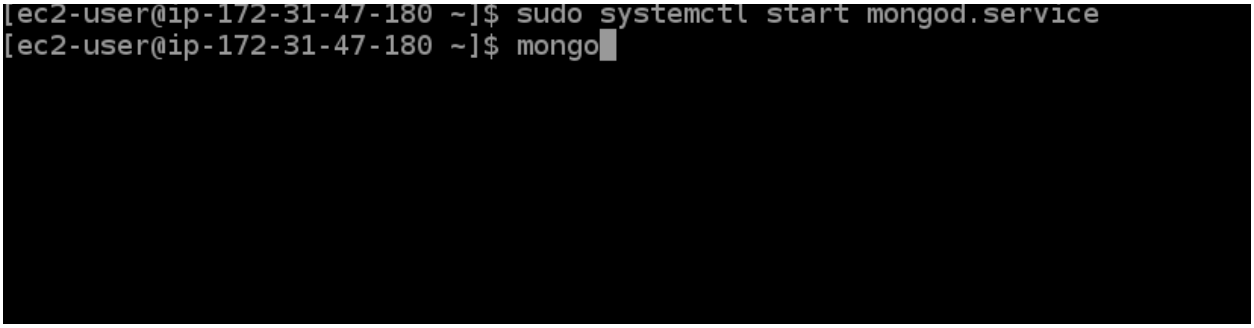
Step 19: To start MongoDB service,

Type-> **sudo systemctl start mongod.service**



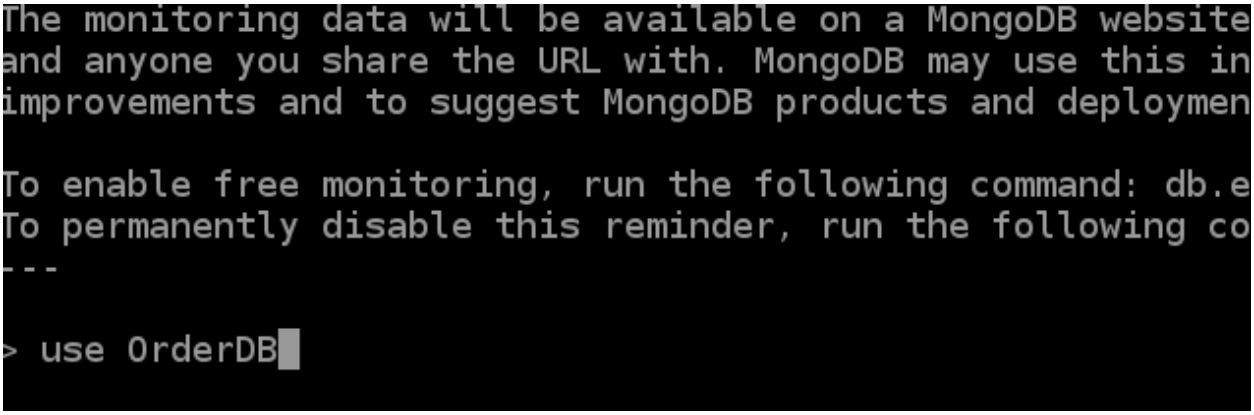
Step 20: To use MongoDB CLI,

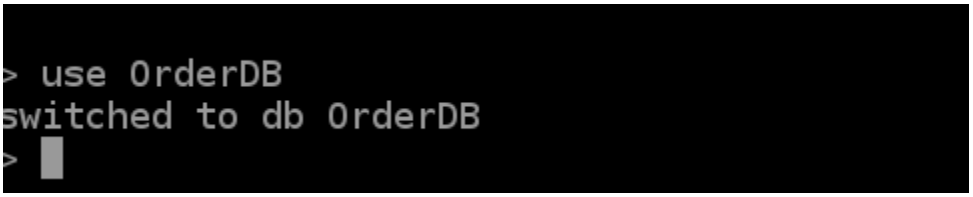
Type-> **mongo**



Step 21: To create an database ,

Type-> use OrderDB





Step 23: To confirm database is created

Type-> show dbs

```
> show dbs
OrderDB  0.000GB
admin    0.000GB
config   0.000GB
local    0.000GB
>
```

Step 24: To insert a document

Type-> **db.Orders.insert({orderId:"ODR1001",orderDesc:"NON Electronic Order",orderAmount:20000,custId:"1001"})**

```
> db.Orders.insert({orderId:"ODR1001",orderDesc:"NON Electronic Order",orderAmount:20000,custId:"1001"})
```

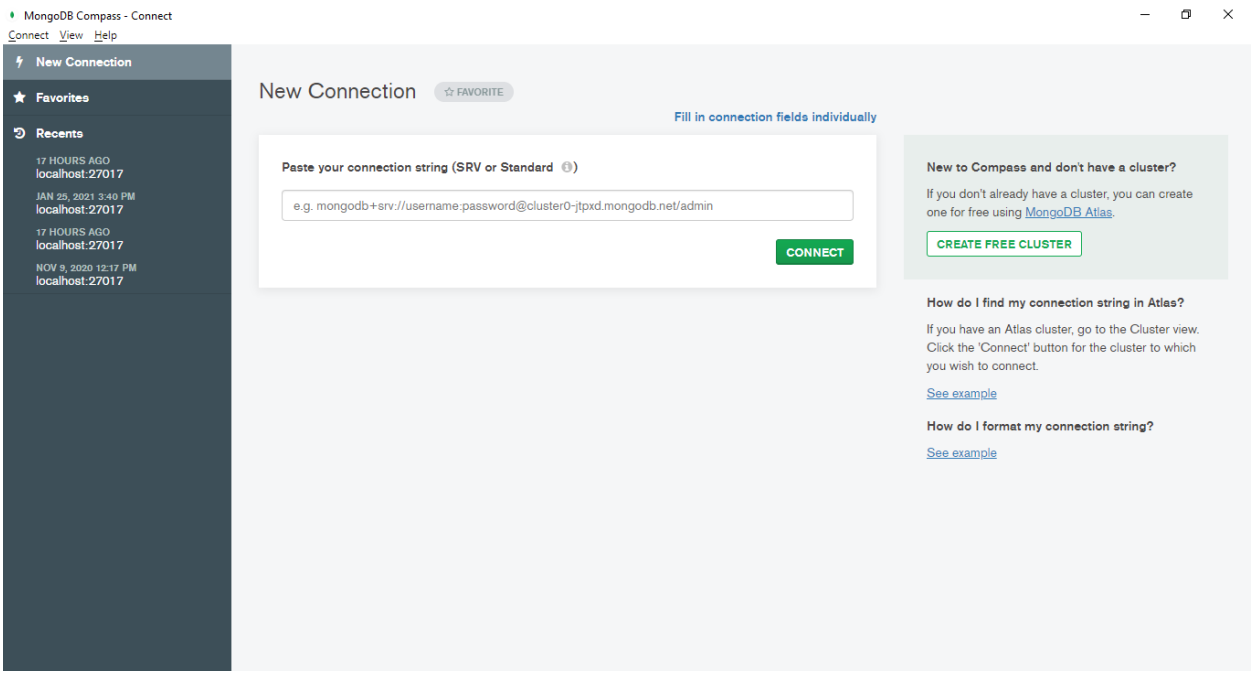
Step 25: To confirm if record is inserted in document,

Type-> db.Orders.find()

```
> db.Orders.find()
{ "_id" : ObjectId("601154375020c0f53522422d"), "orderId" : "ODR1001", "orderDesc" : "Non Electronic order", "orderAmount"
 : 25000, "custId" : "1001" }
>
```

Step 26: To connect to mongodb on Amazon Linux from MongoDB compass community from windows desktop,

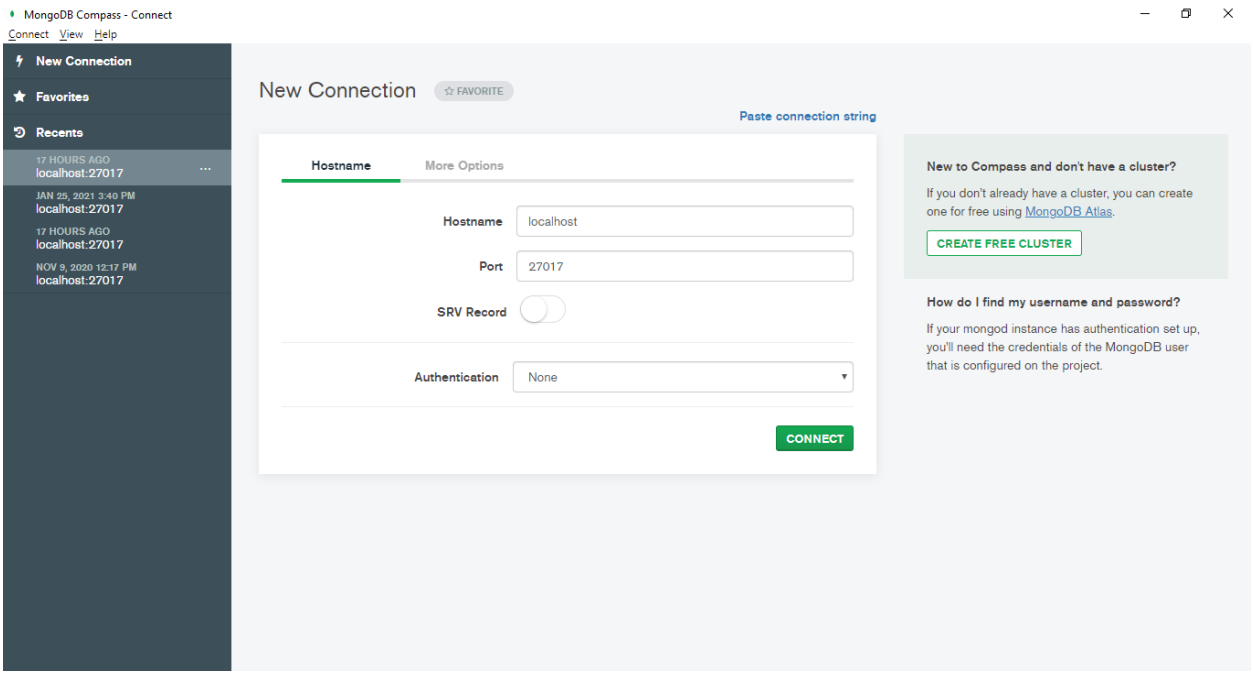
Start MongoDB Compass community,



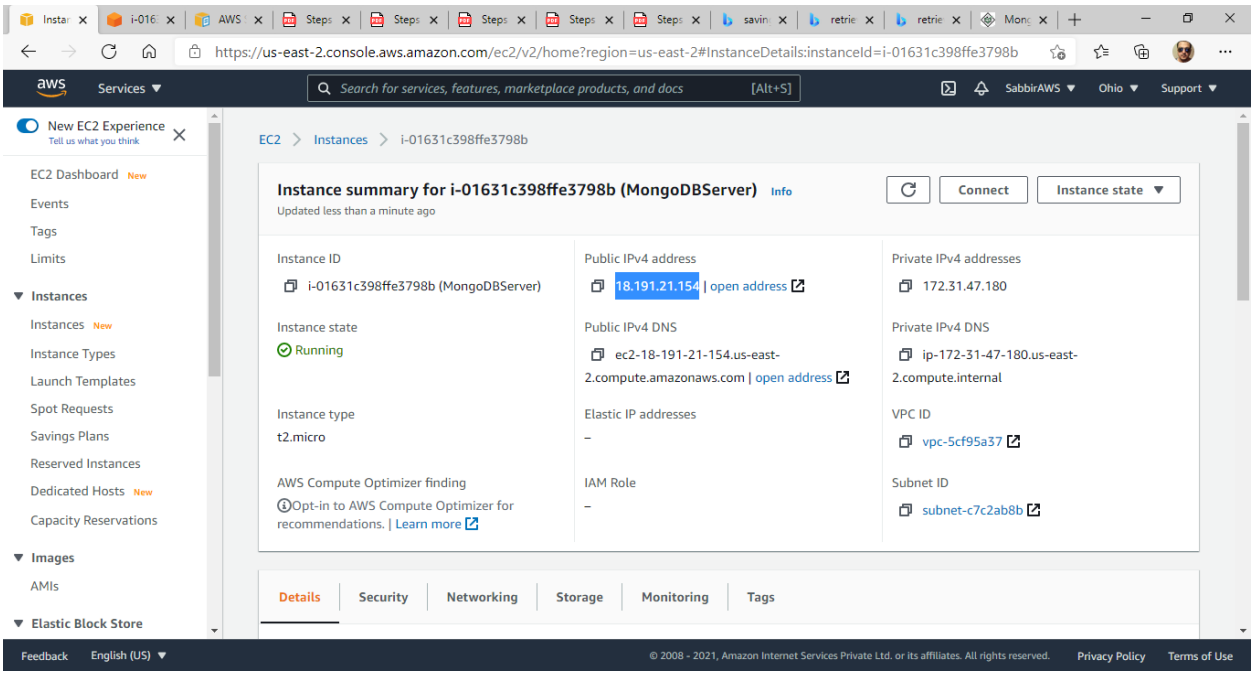
Step 27: Click on menu Connect -> Connect to,

In hostname field type “localhost”

In port field type “27017”



Step 28: To get public IP address of instance go to AWS Console , click on instances and MongoDBServer instance,



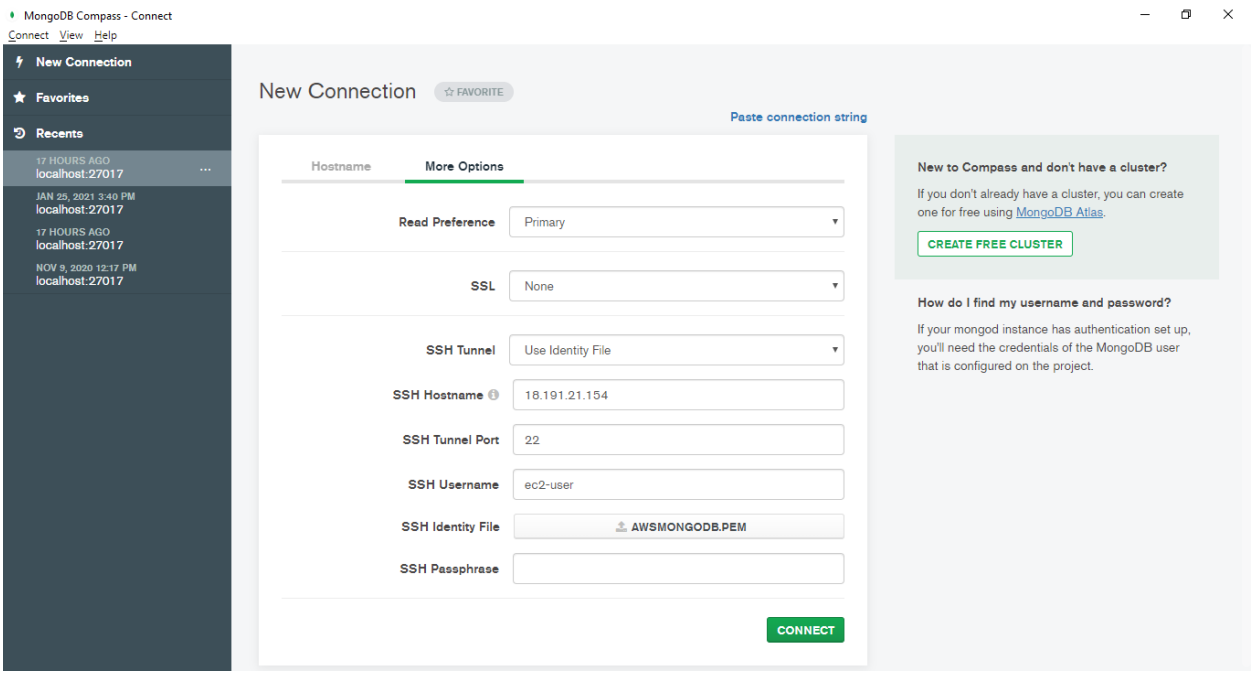
Step 29: In more options,

In SSH Tunnel select “Using Identity File”

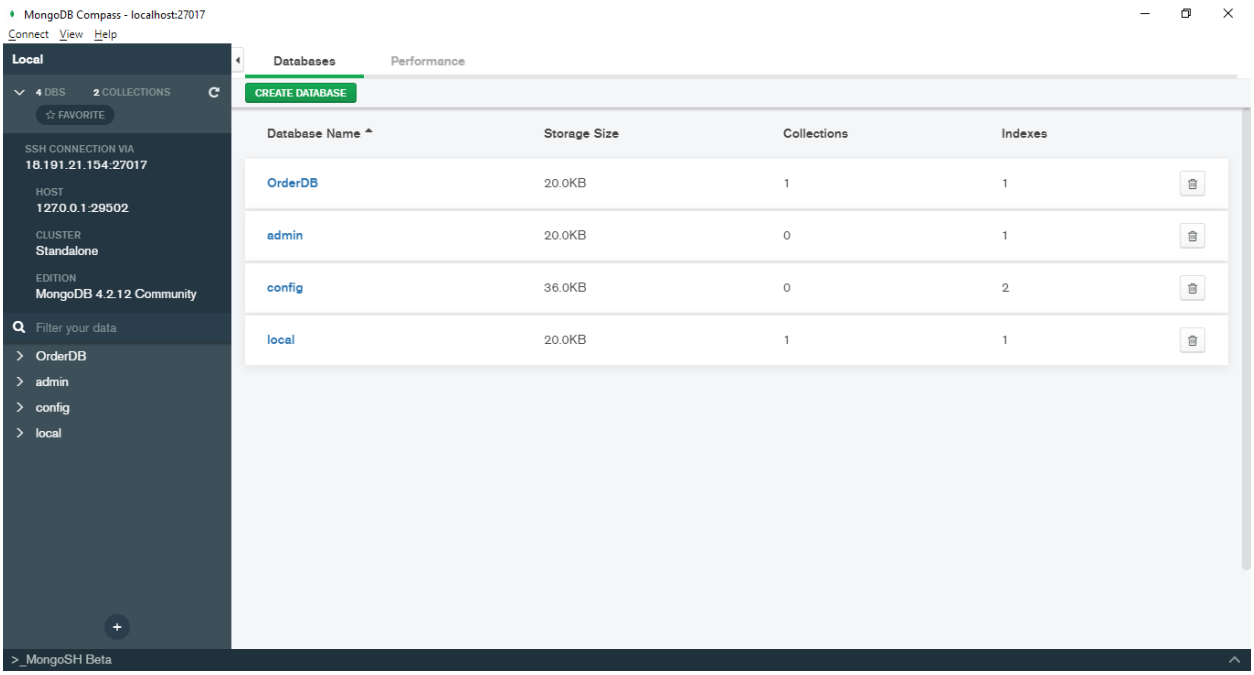
SSH Tunnel Port: 22

SSH Identity File: Browse key-pair file downloaded in step 11

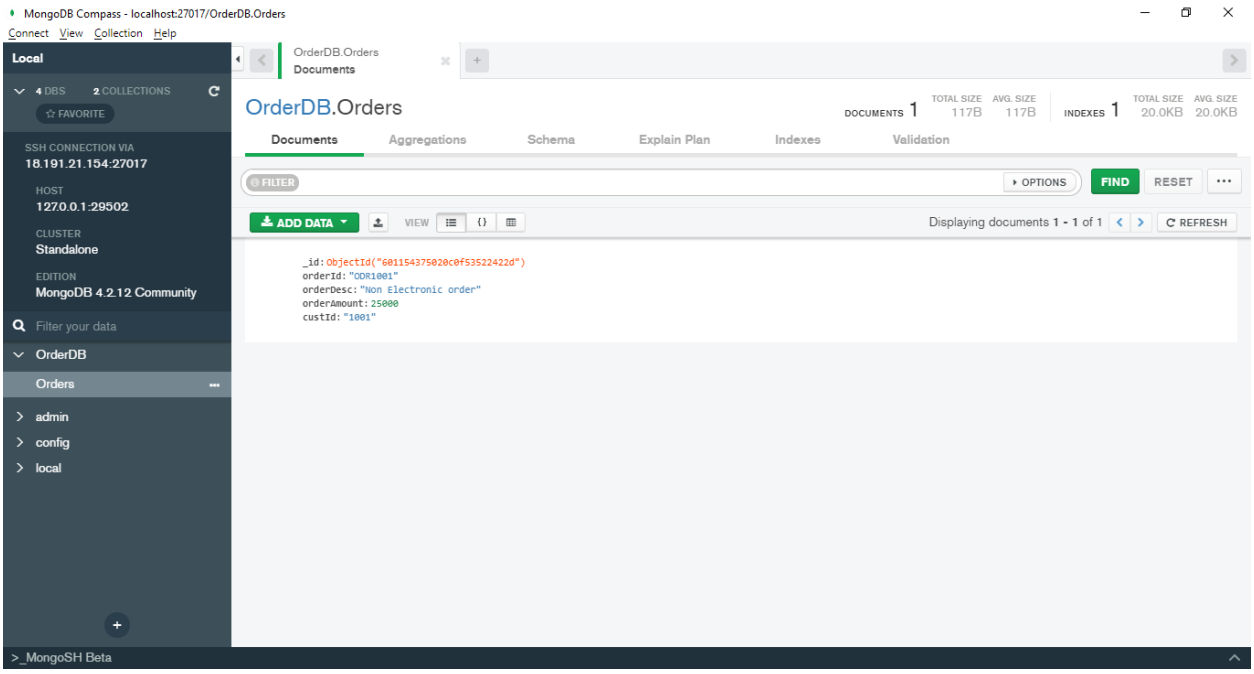
Click on connect,



Step 30: Click on OrderDB,



Step 31: Click on Orders and test if you are able to view record.

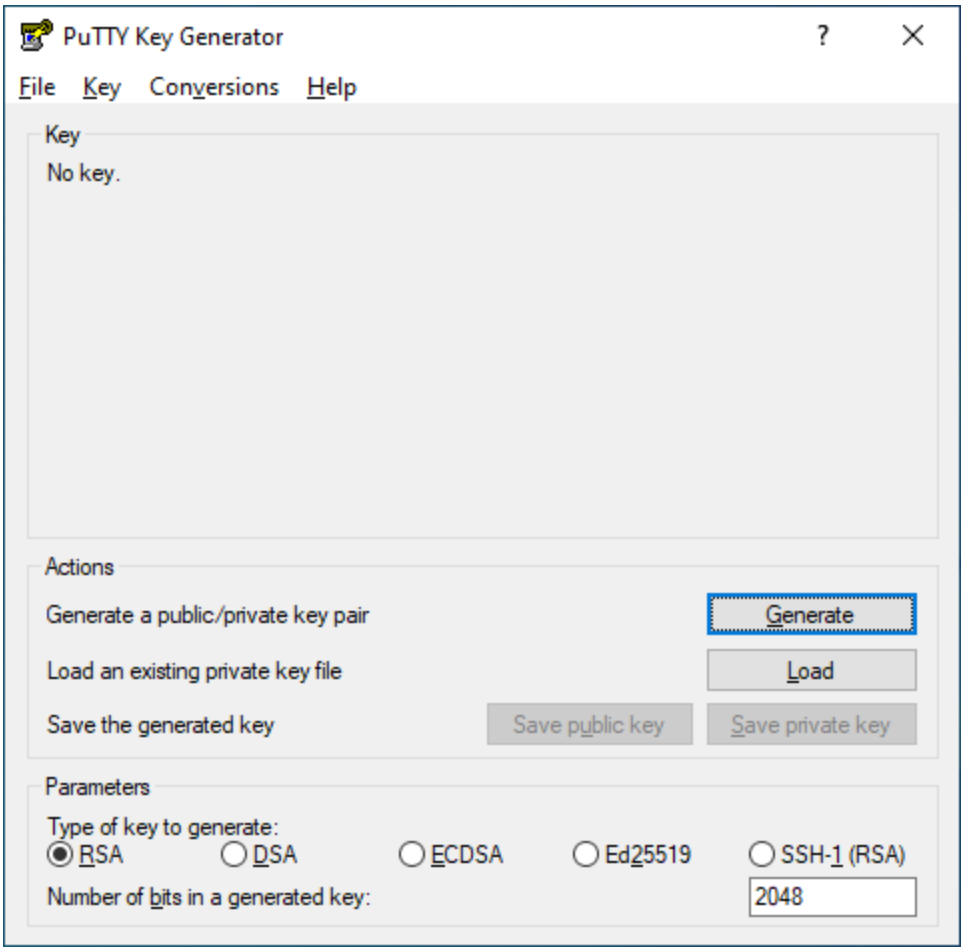


Appendix

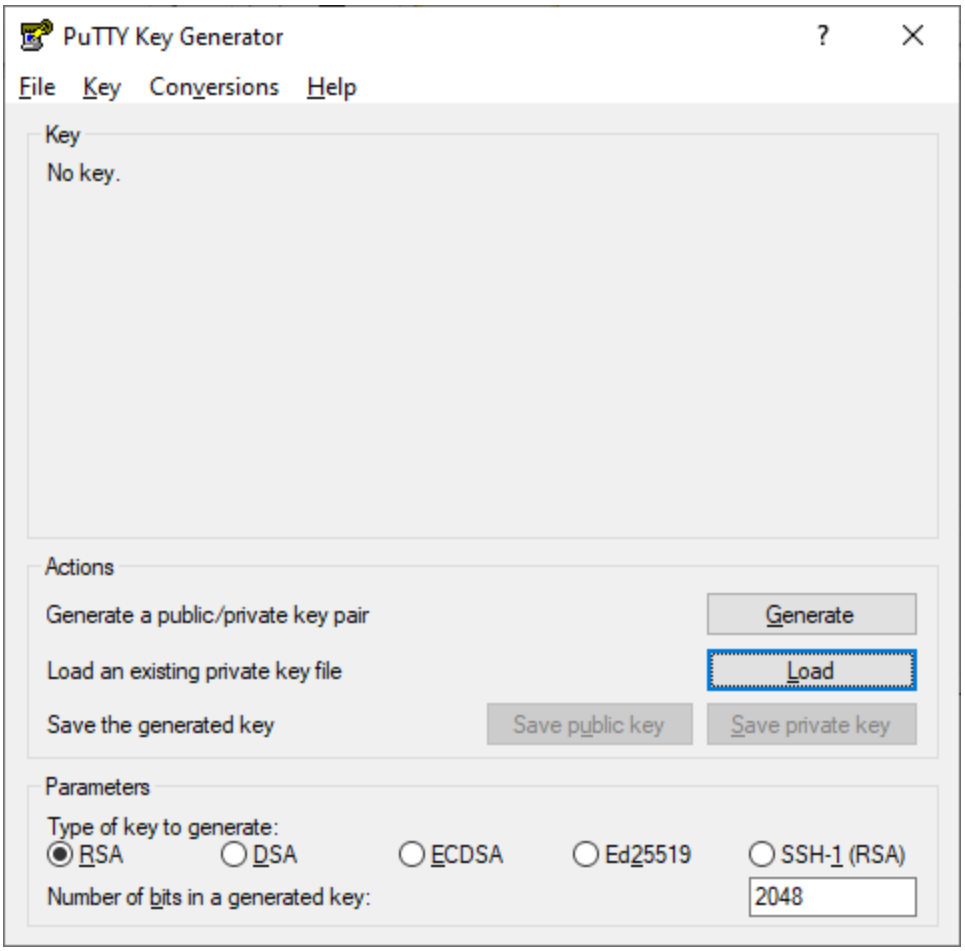
To install mongodb on amazon linux instance after it is create , putty can alternatively be used instead of Amazon CLI

Step 1: To create ppk file,

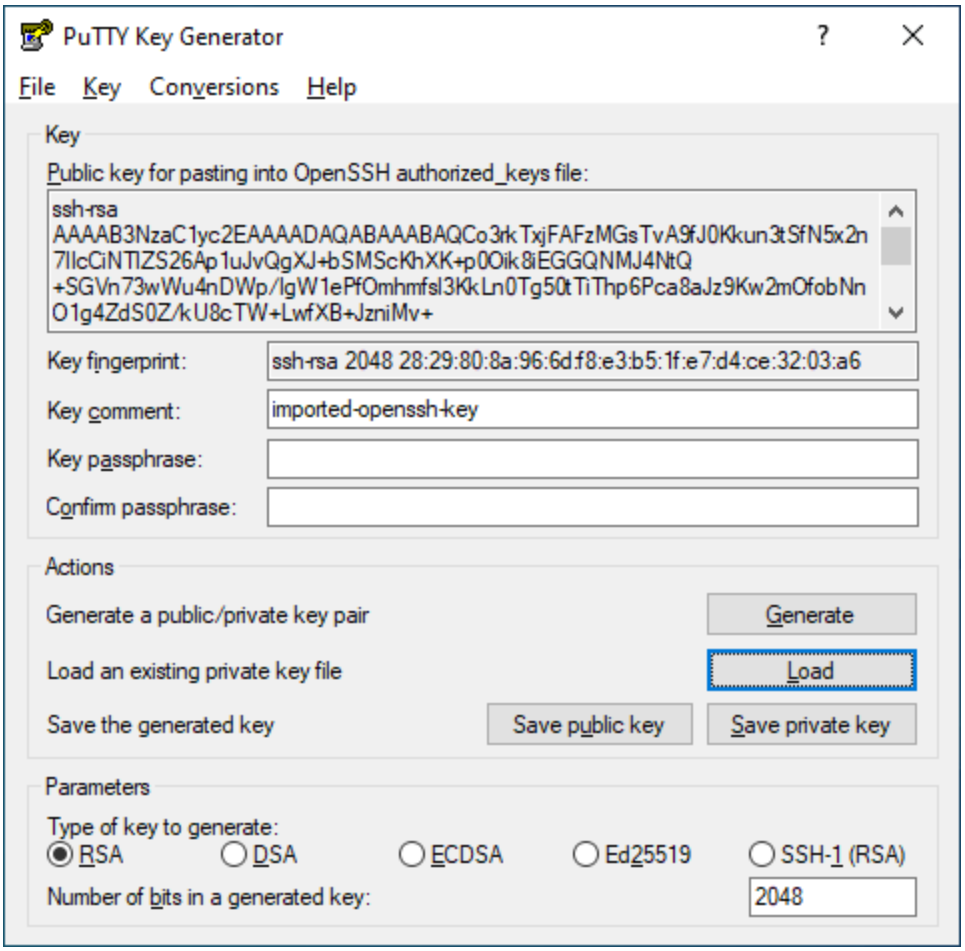
Go to puttygen ,



Step 2: Click on Load,

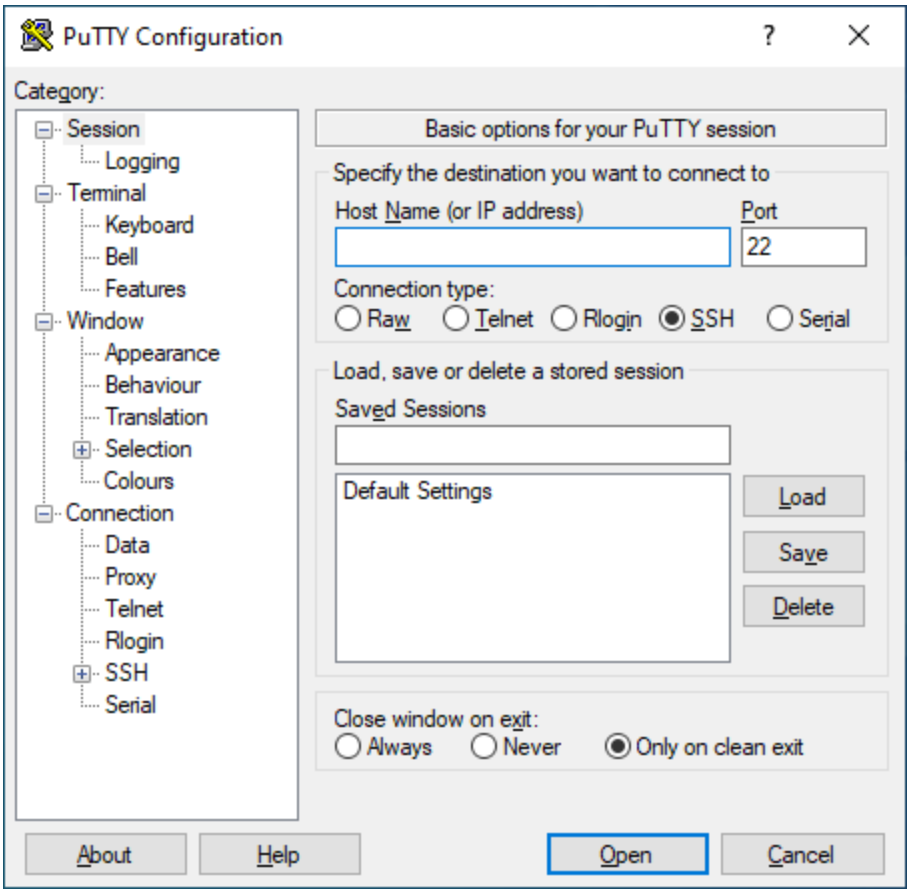


Step 3: Browse AWSMONGODB.pem file downloaded in Step 11 of Main section,

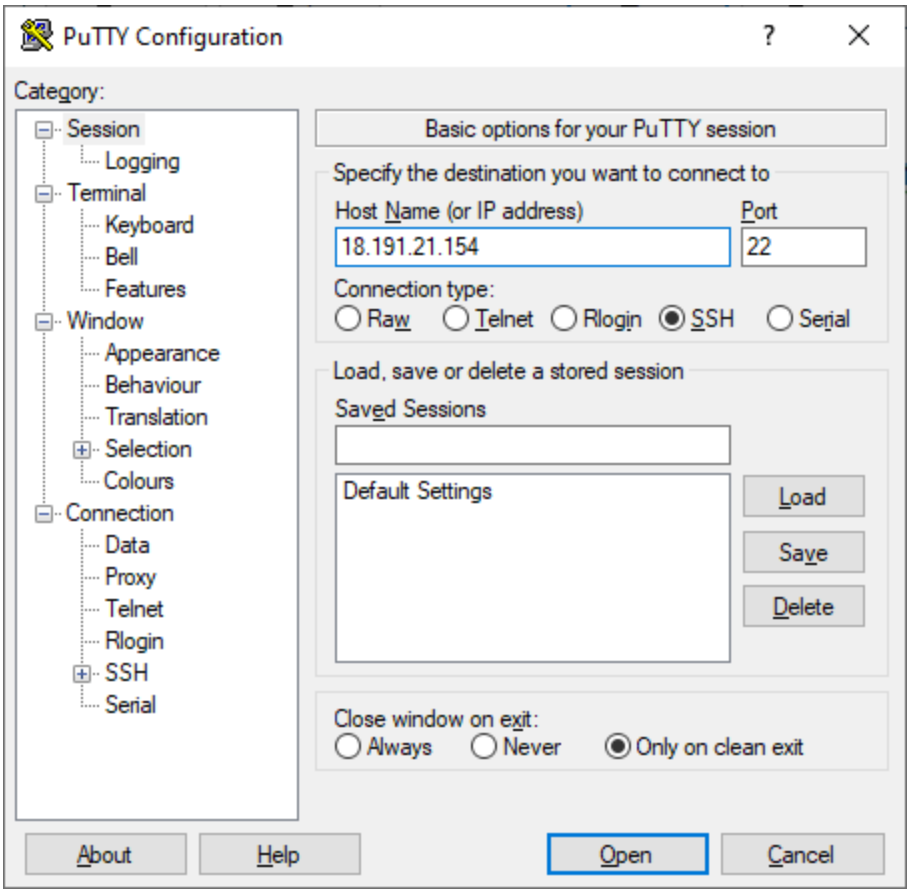


Step 4: Click on Save private key and save file on desktop as AWSMONGODB.ppk

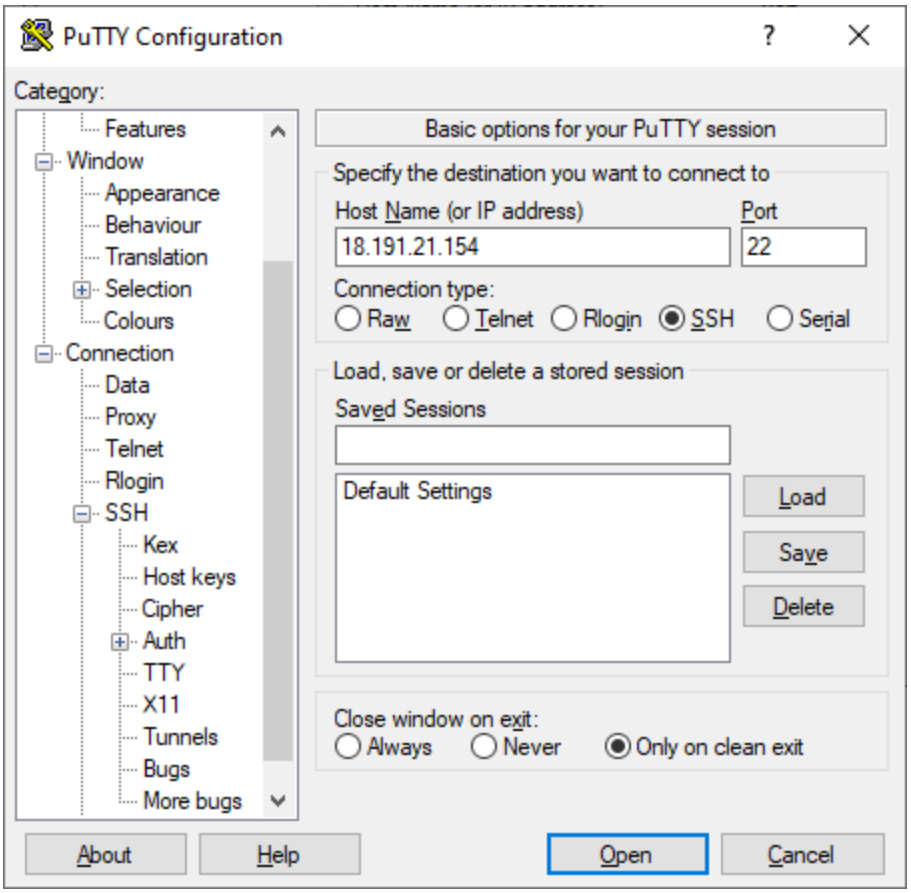
Step 5: Open putty,



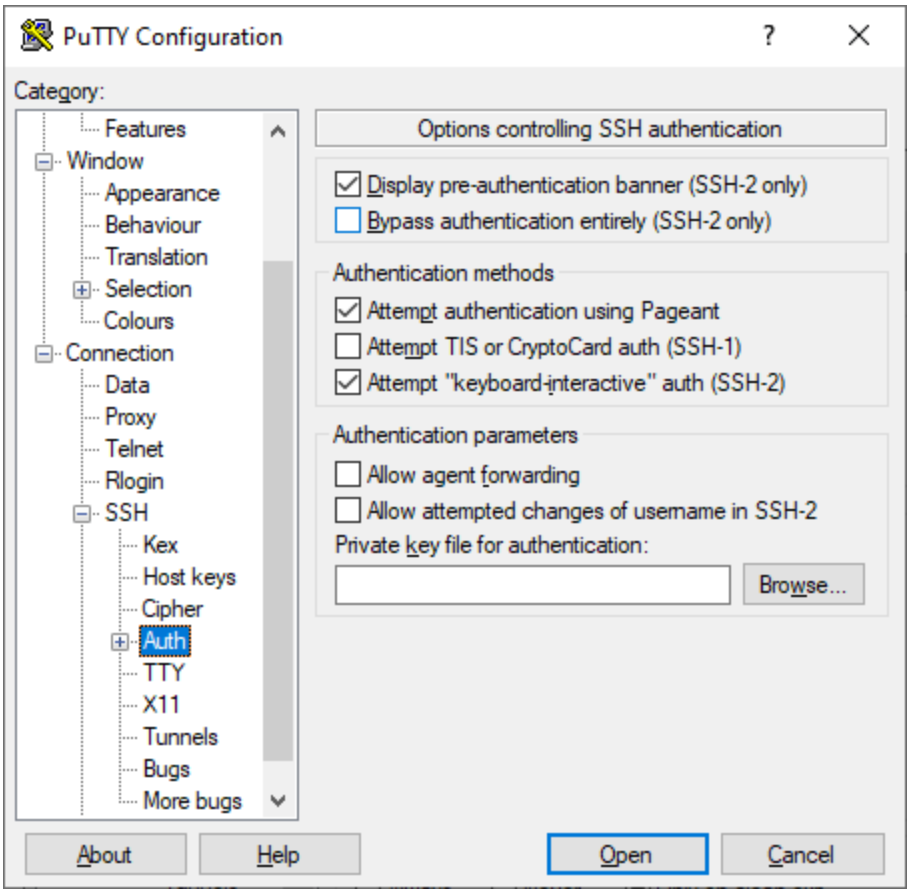
Step 6: Specify Host Name as ip address of AWS Linux instance , refer to step 28 in main section,



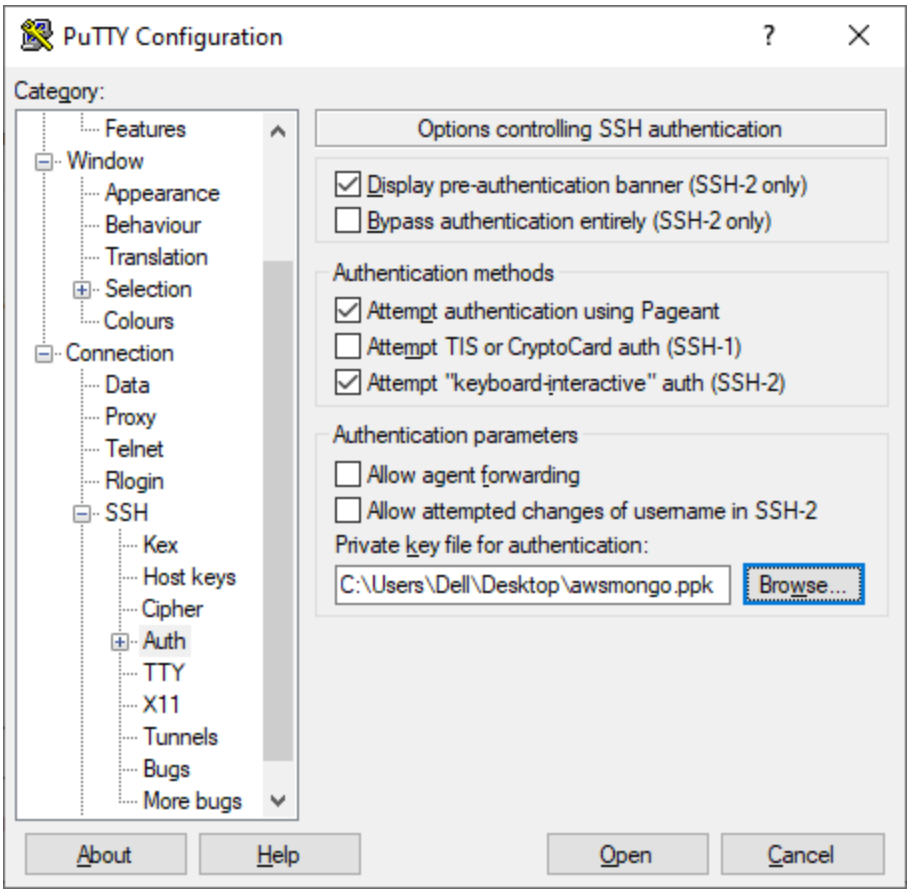
Step 7: Click on SSH,



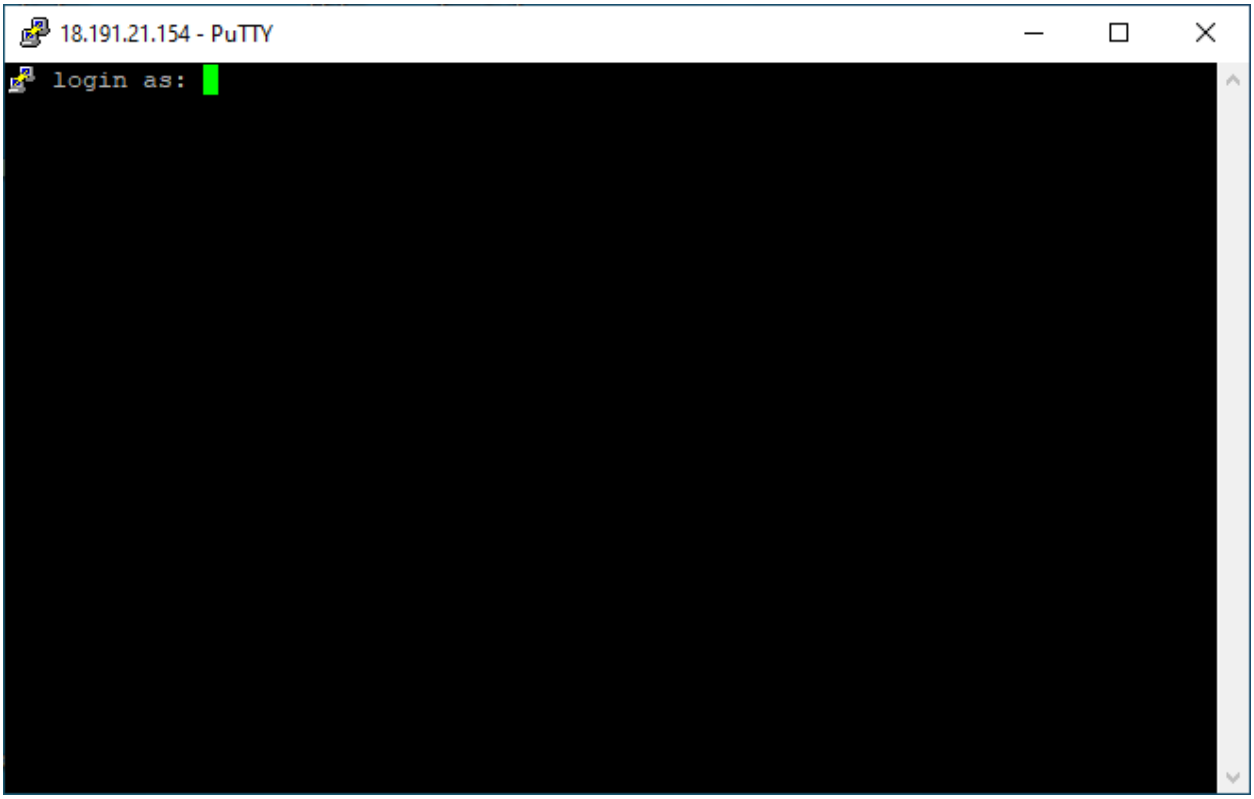
Step 8: Click on Auth,

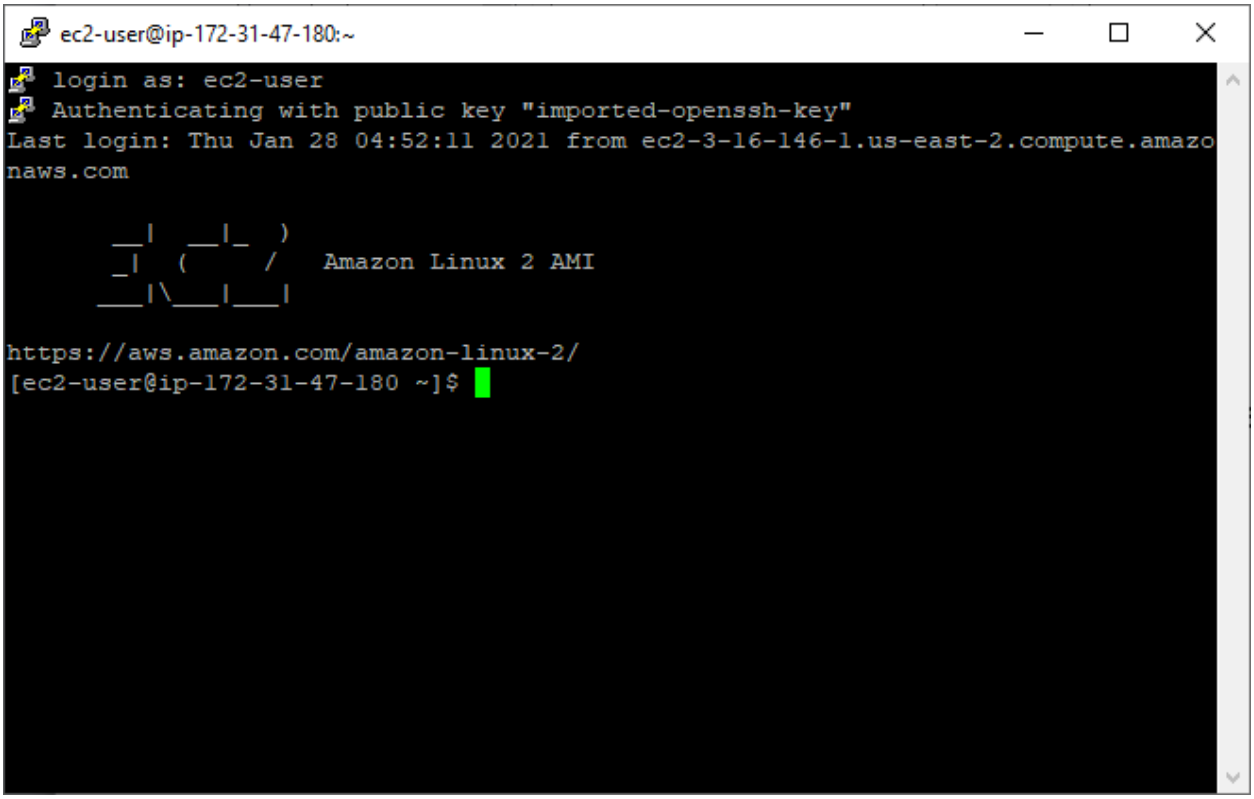


Step 9: Click on browse, and browse AWSMONGODB.ppk file created in earlier step



Step 10:Login as ec2-user,


18.191.21.154 - PuTTY
login as:


ec2-user@ip-172-31-47-180:~
login as: ec2-user
Authenticating with public key "imported-openssh-key"
Last login: Thu Jan 28 04:52:11 2021 from ec2-3-16-146-1.us-east-2.compute.amazo
naws.com
__| __|_)
_| (/   Amazon Linux 2 AMI
___|___|___|
https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-47-180 ~]$