Deploy MySQL RDS using AWS

Project agenda: To create and configure an RDS instance

Description: You are required to create an RDS database and, then deploy a Linux instance by creating it in EC2 and connecting SSH client through EC2.

Tools required: AWS account

Prerequisites: AWS account with CloudShell installed

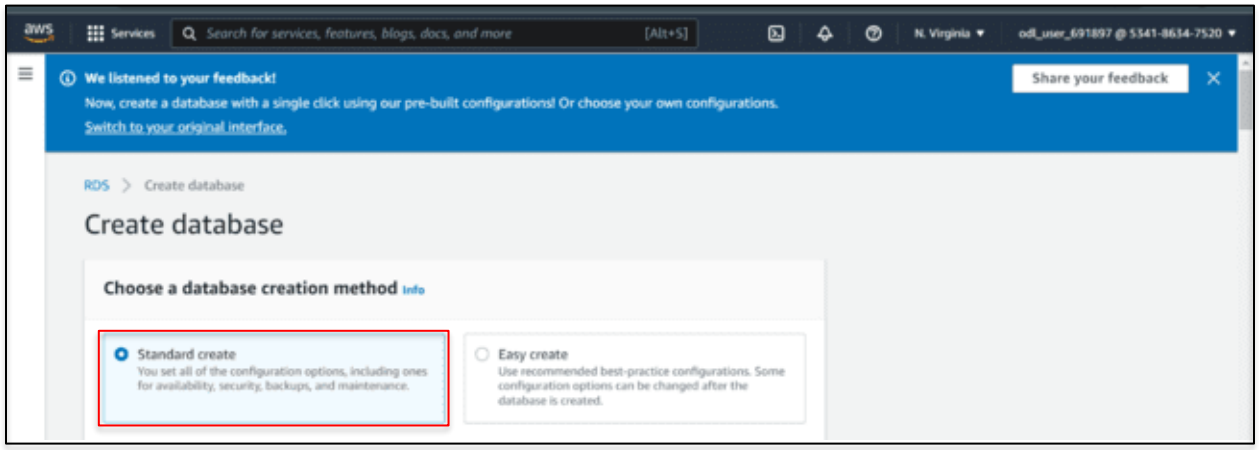
Expected deliverables: RDS database with SSH Client

Steps to be followed:

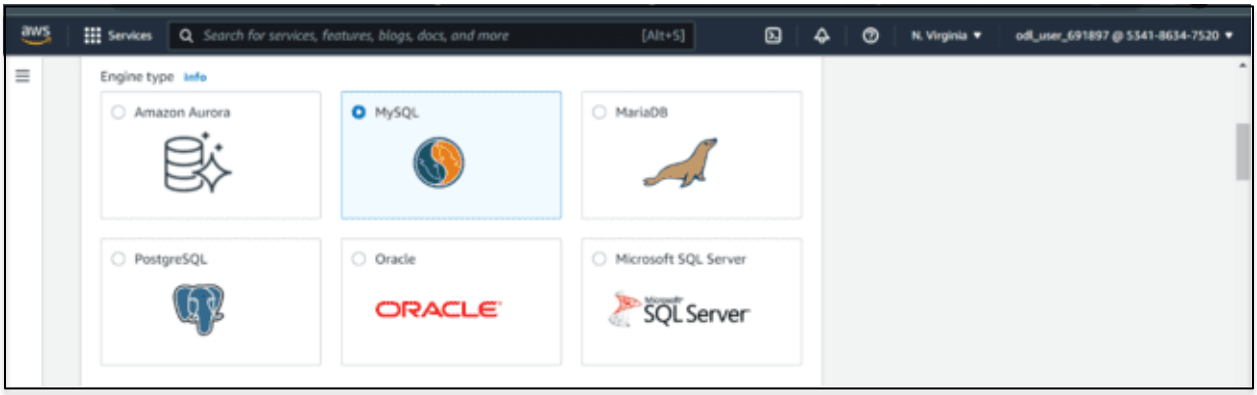
1. Create an RDS database
2. Launch an EC2 instance with key-pair
3. Create security groups
4. Terminal for SSH

Step 1: Create a RDS instance:

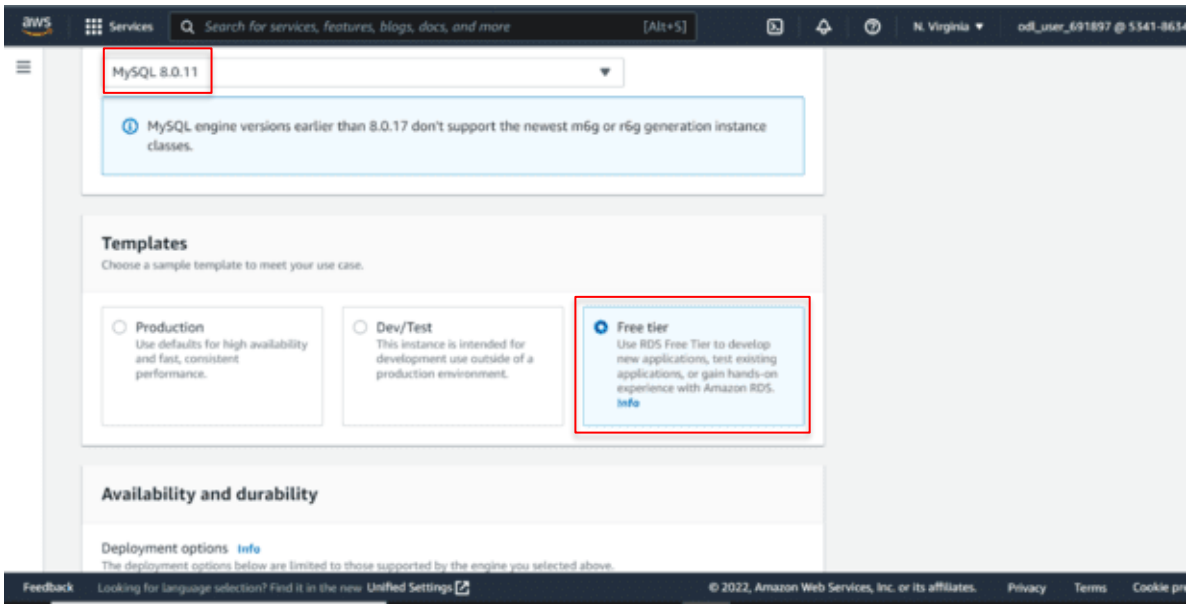
1.1 In the AWS management console, search for **RDS,** click on **create databases,** and select **Standard create:**



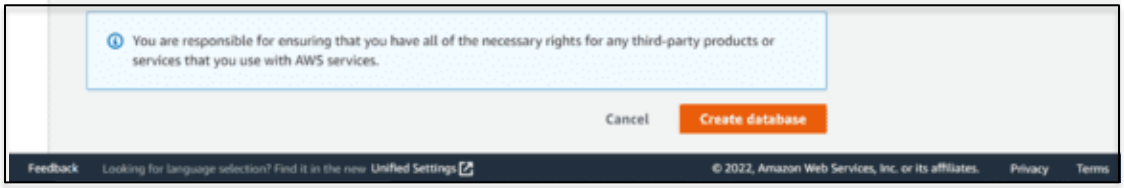
1.2 Click on the **MySQL** option:



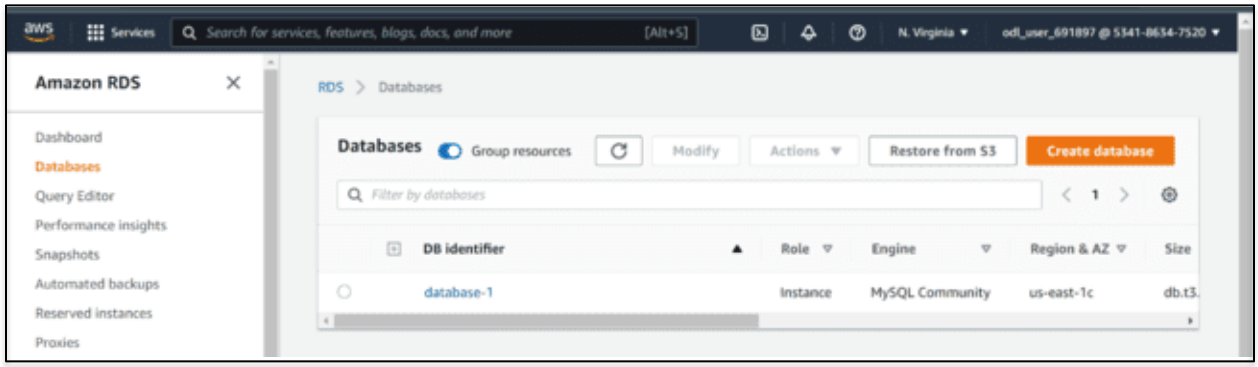
1.3 Select the option **MySQL 8.0.11** and click on **Free tier:**

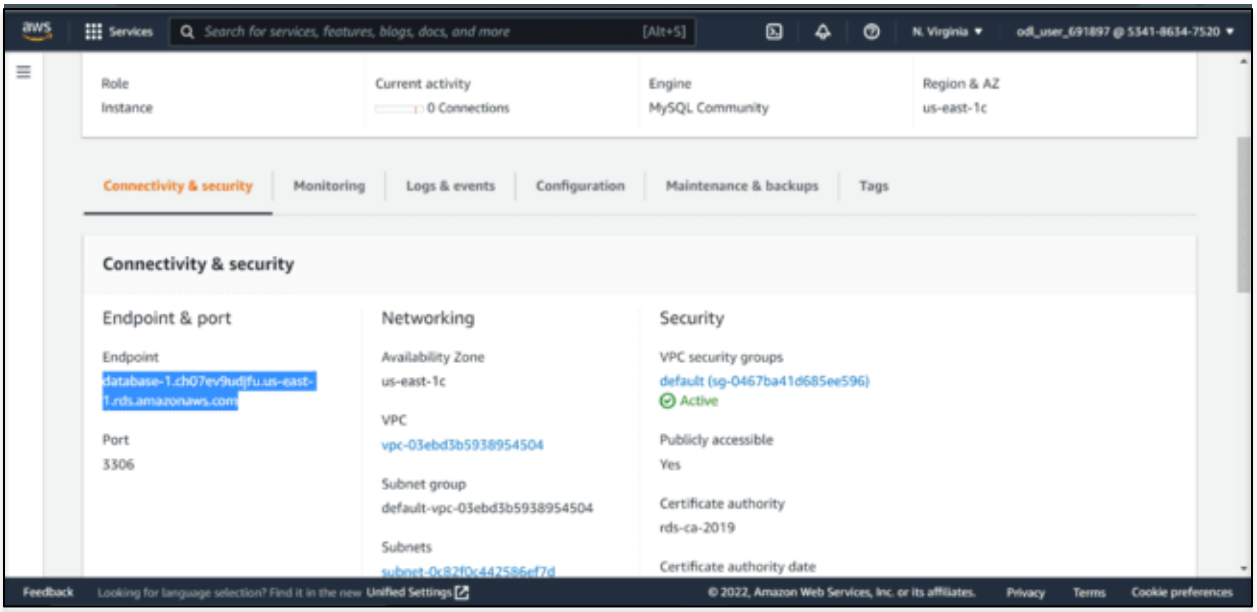


1.4 Select the default options for the rest, enter a password, and then click on **Create database**.



1.5 After the creation of the database, take note of the **Endpoint:**




aws
Services
Search for services, features, blogs, docs, and more
[Alt+S]
N. Virginia
odl_user_691897 @ 5341-8634-7520
Role
Instance
Current activity
0 Connections
Engine
MySQL Community
Region & AZ
us-east-1c
Connectivity & security
Monitoring
Logs & events
Configuration
Maintenance & backups
Tags
Connectivity & security
Endpoint & port
Endpoint
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Port
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Networking
Availability Zone
us-east-1c
VPC
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Subnet group
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Subnets
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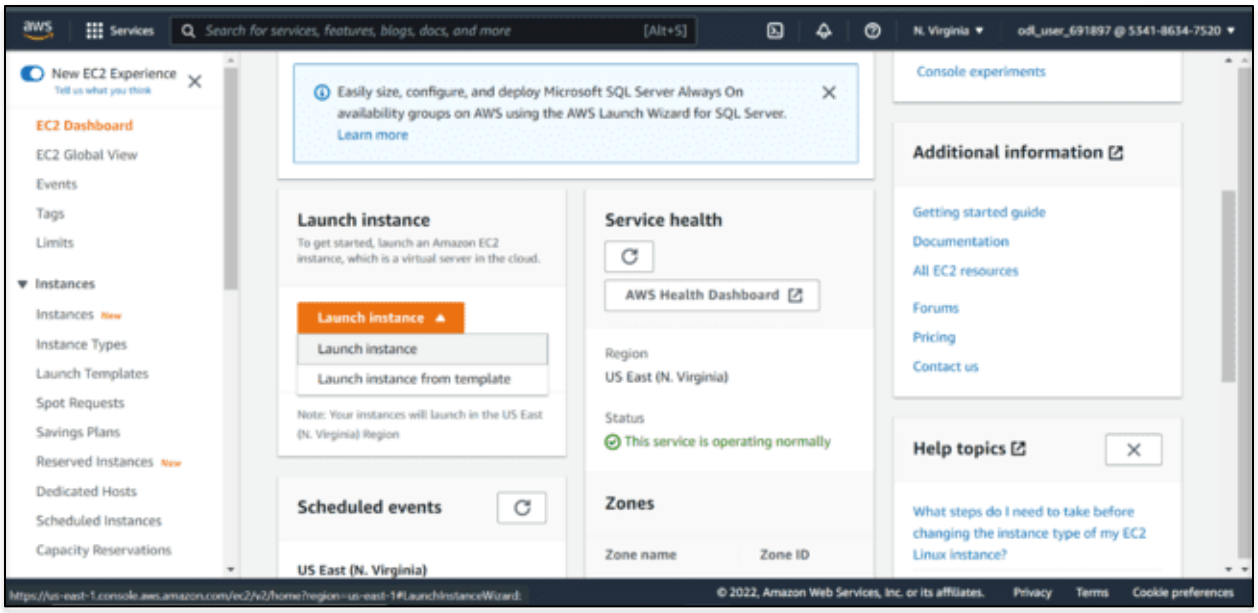
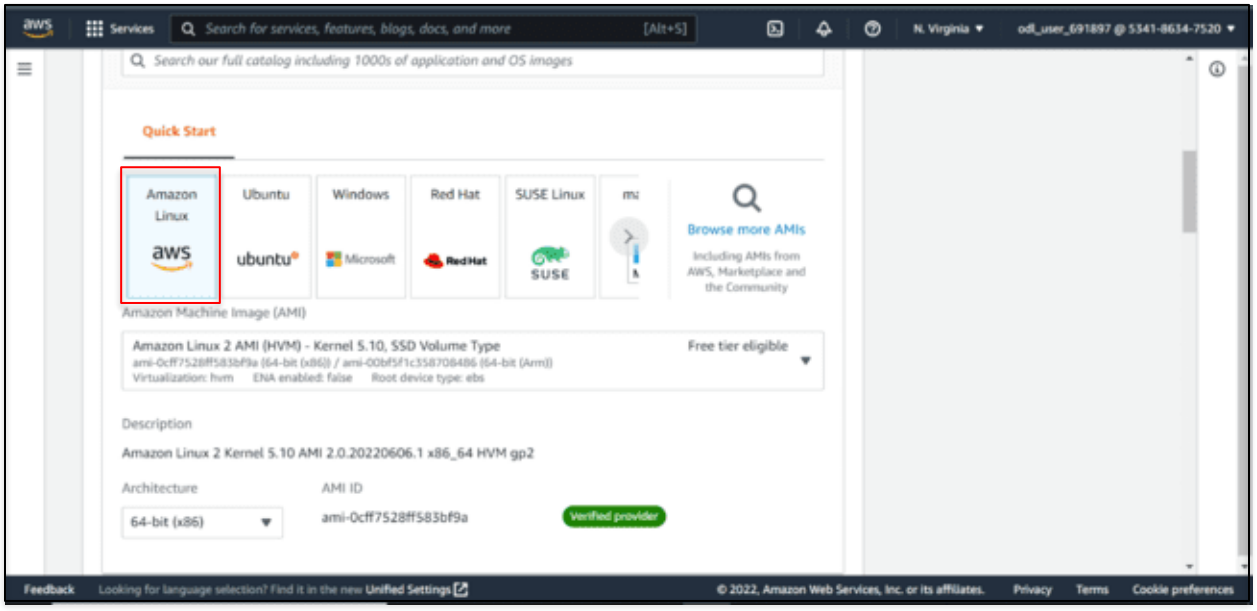
Security
VPC security groups
default (sg-0467ba41d685ee596)
Active
Publicly accessible
Yes
Certificate authority
rds-ca-2019
Certificate authority date
Feedback
Looking for language selection? Find it in the new Unified Settings
© 2022, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences

Step – 2: Launch an EC2 instance with key-pair

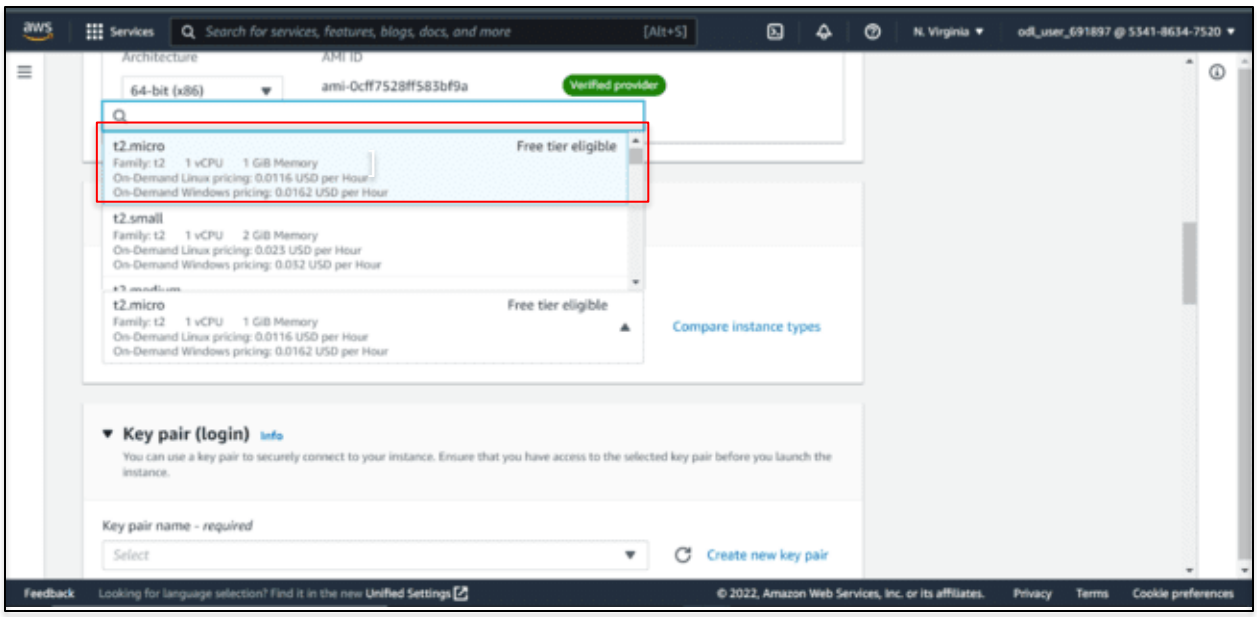
2.1 Navigate to **EC2** in Console, Click on **Launch instance:**



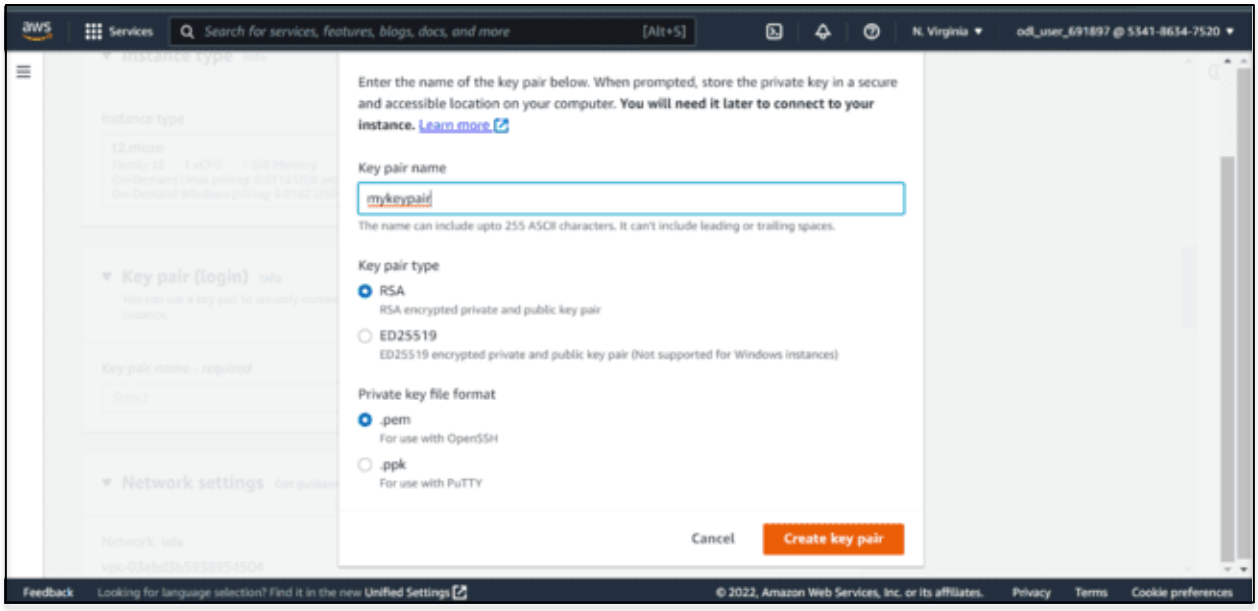
2.2 Enter the name of the instance, select the **Amazon Linux** option:



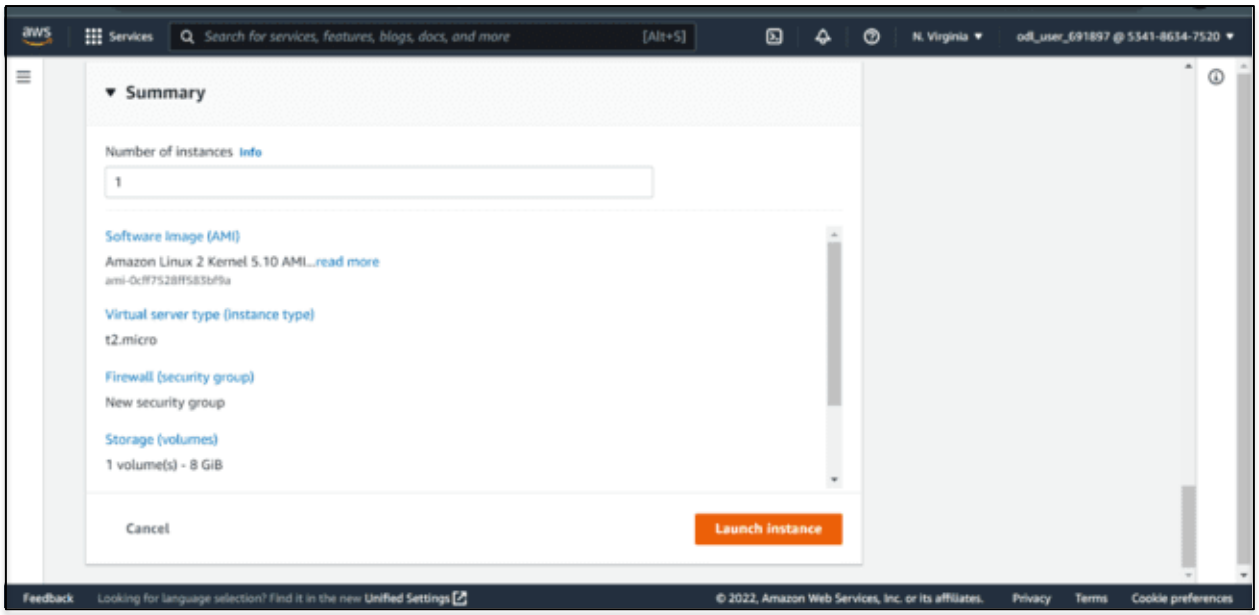
2.3 Select the option **t2.micro** for the instance:



2.4 Create a new **Key pair:**

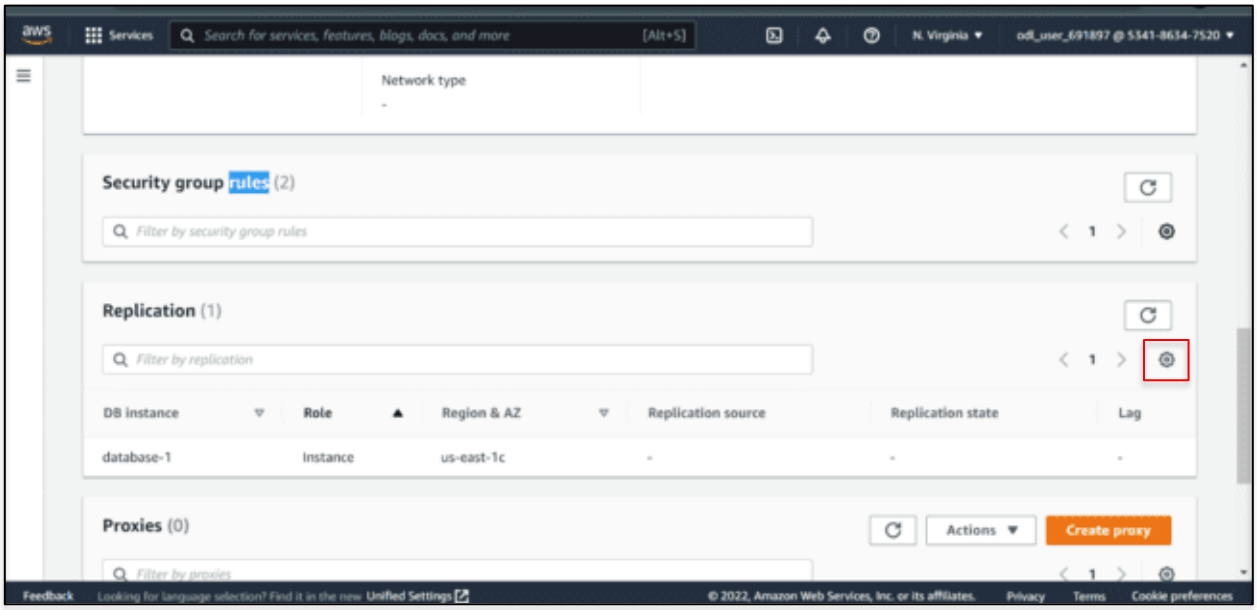


2.5 Click on **Launch instance:**

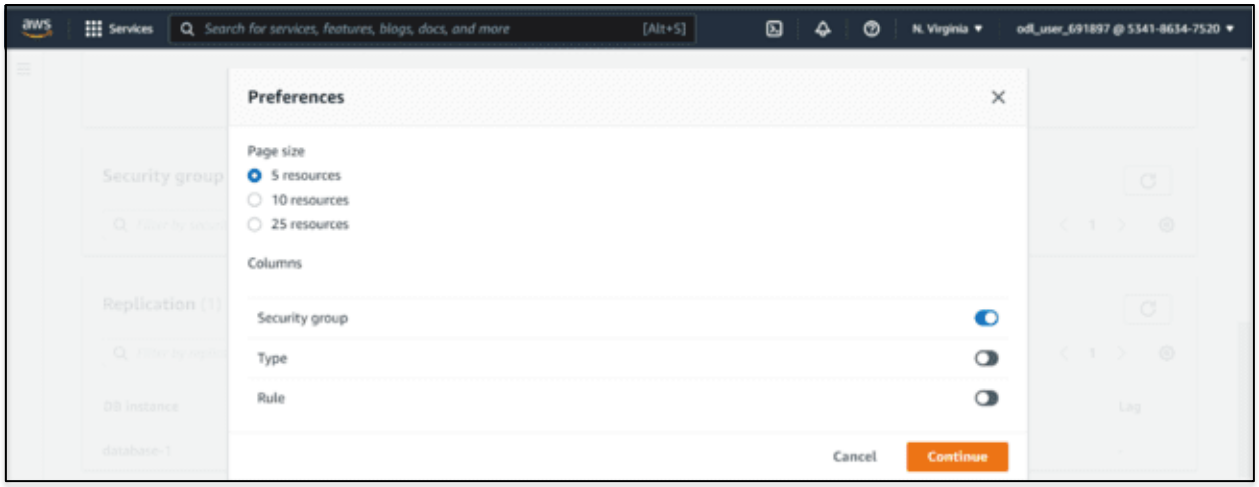


Step – 3: Create **security groups**:

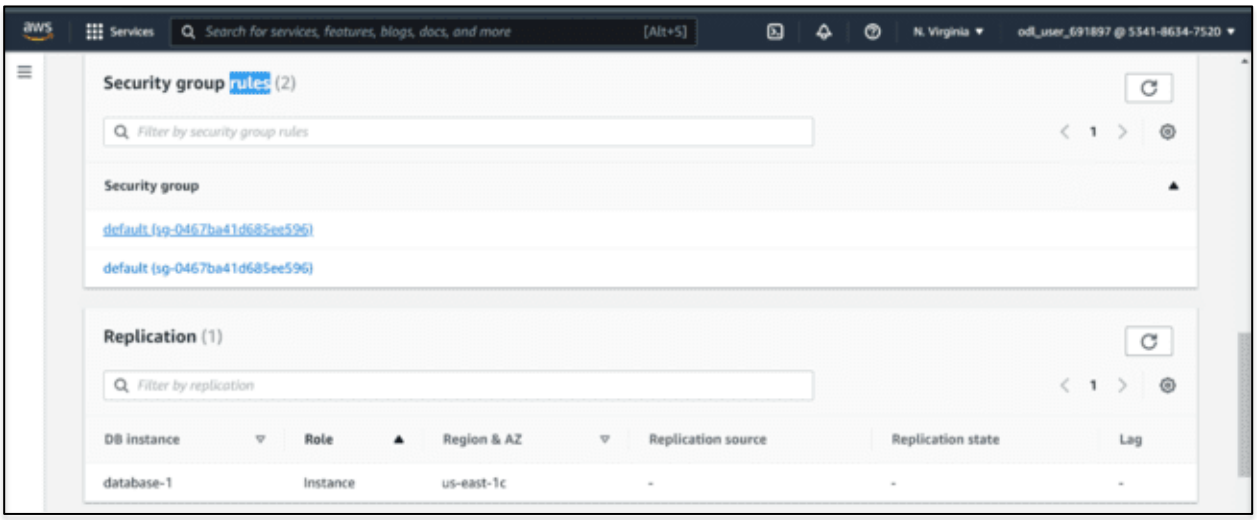
3.1 Click on the settings icons in **Security group rules:**



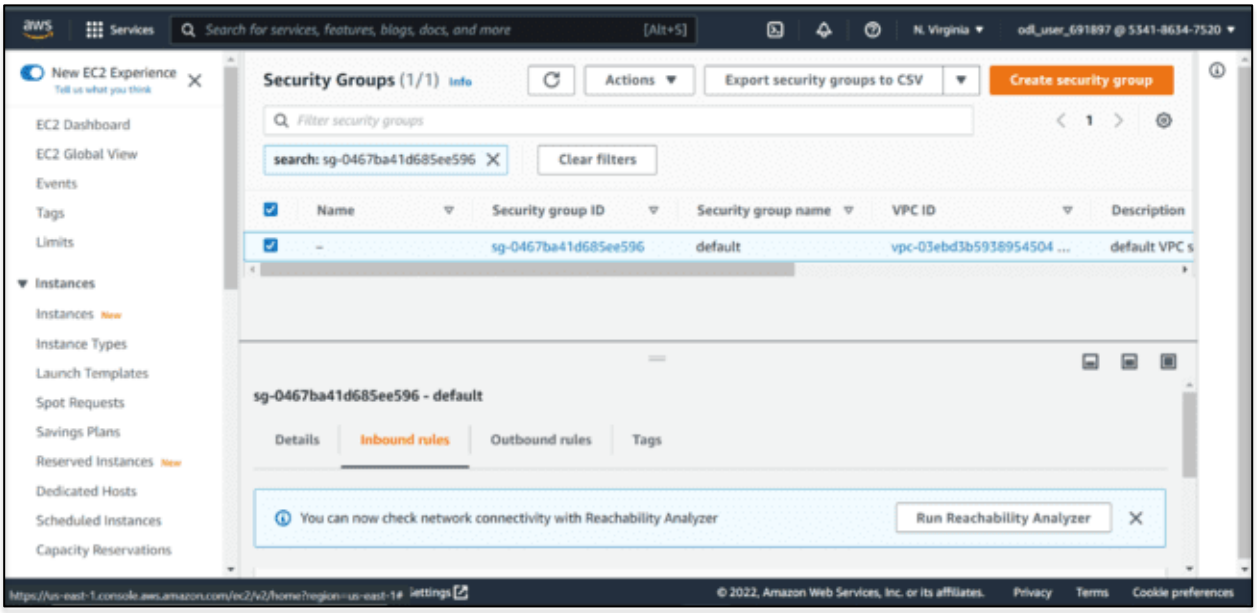
3.2 Select the page size, enable **Security group,** and click on **continue:**



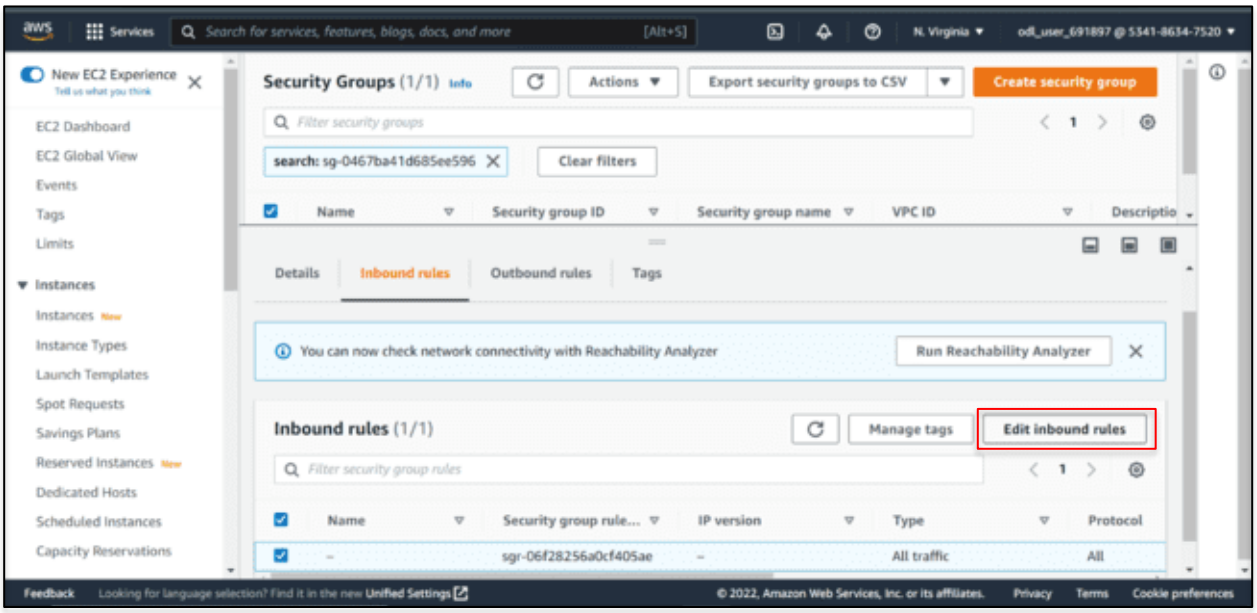
3.3 Click on one of the **security group**:



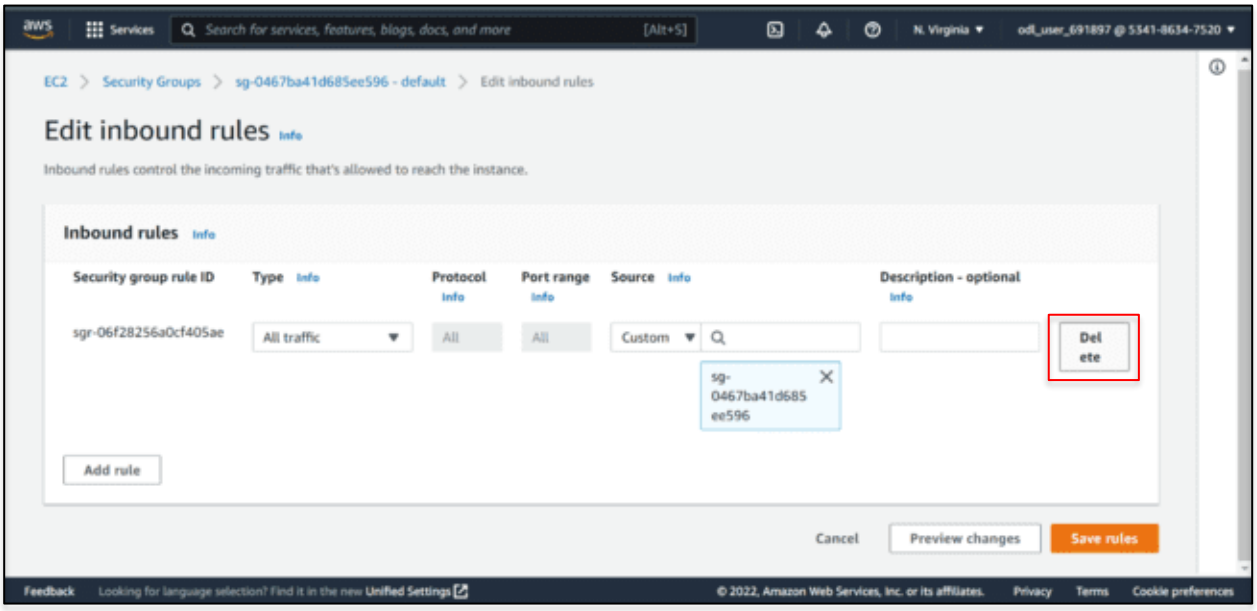
3.4 Click on **Inbound rules:**



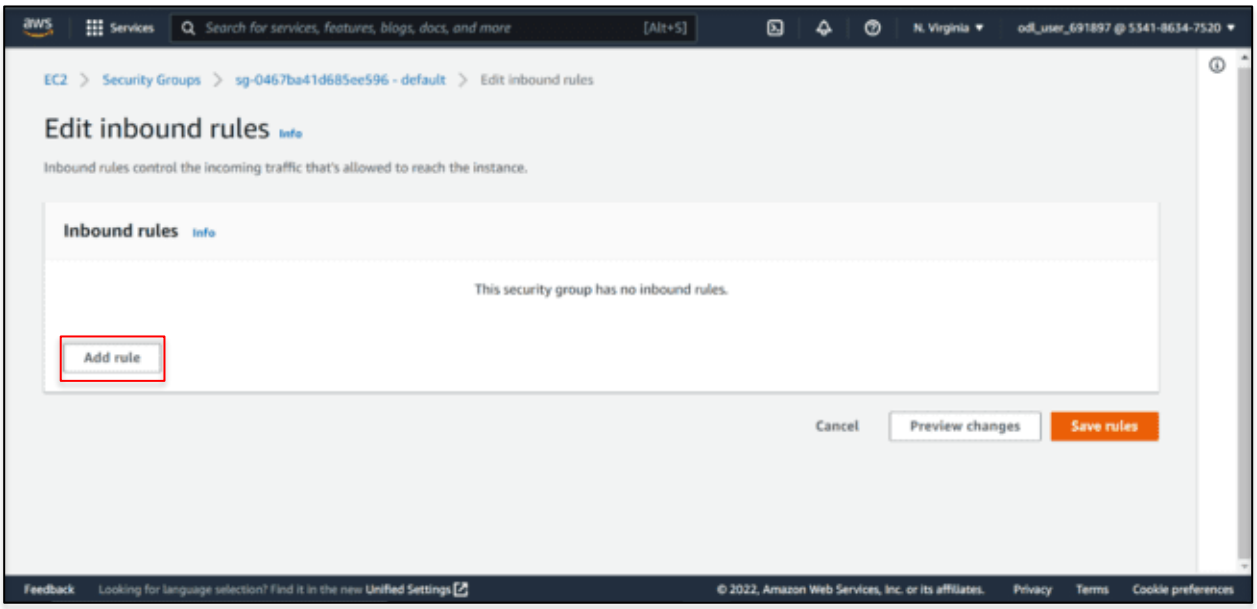
3.5 Click on **Edit inbound** rules:



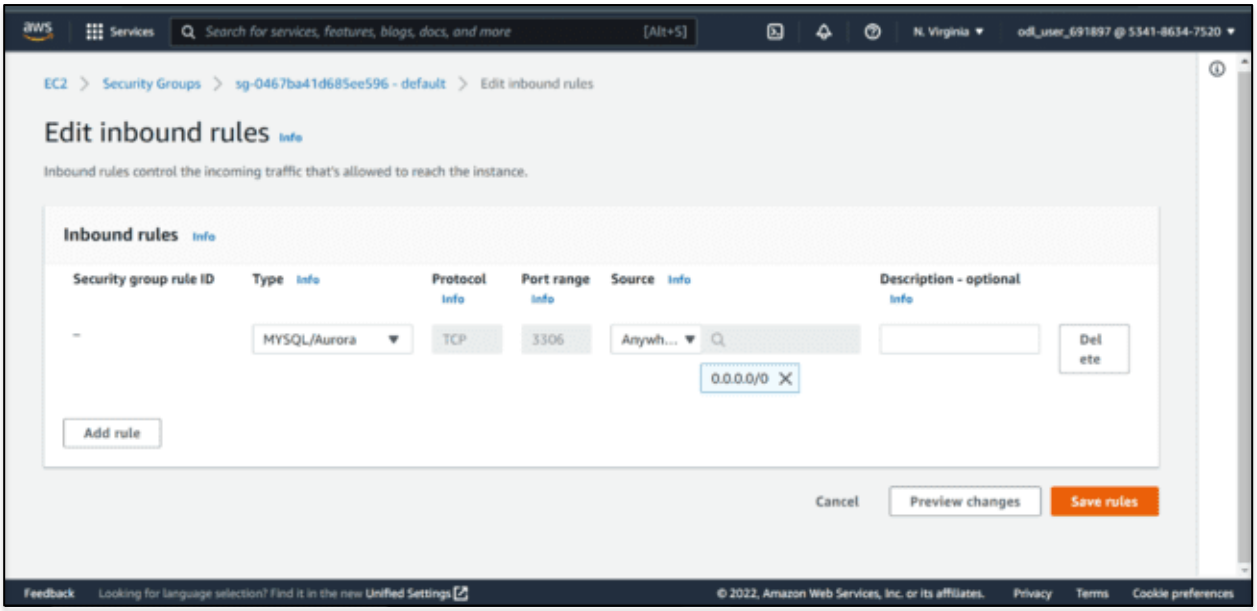
3.6 Delete the default inbound rules and **save rules**:



3.7 Click on **Add rule**:

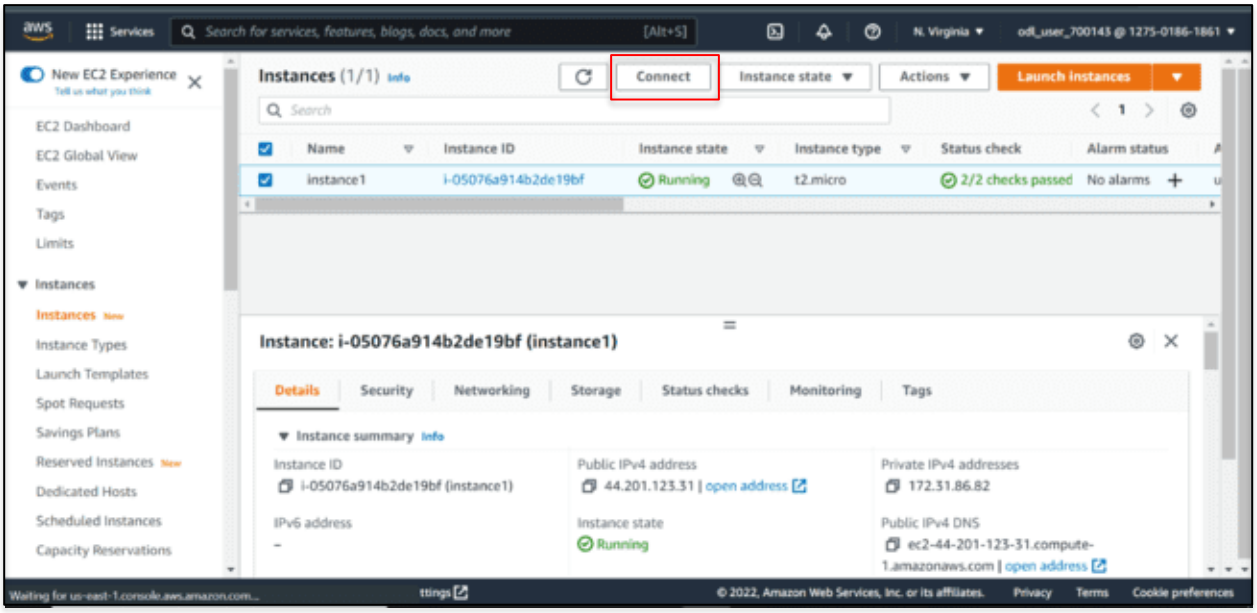


3.8 Select **MYSQL/Aurora** and click on **save rules:**

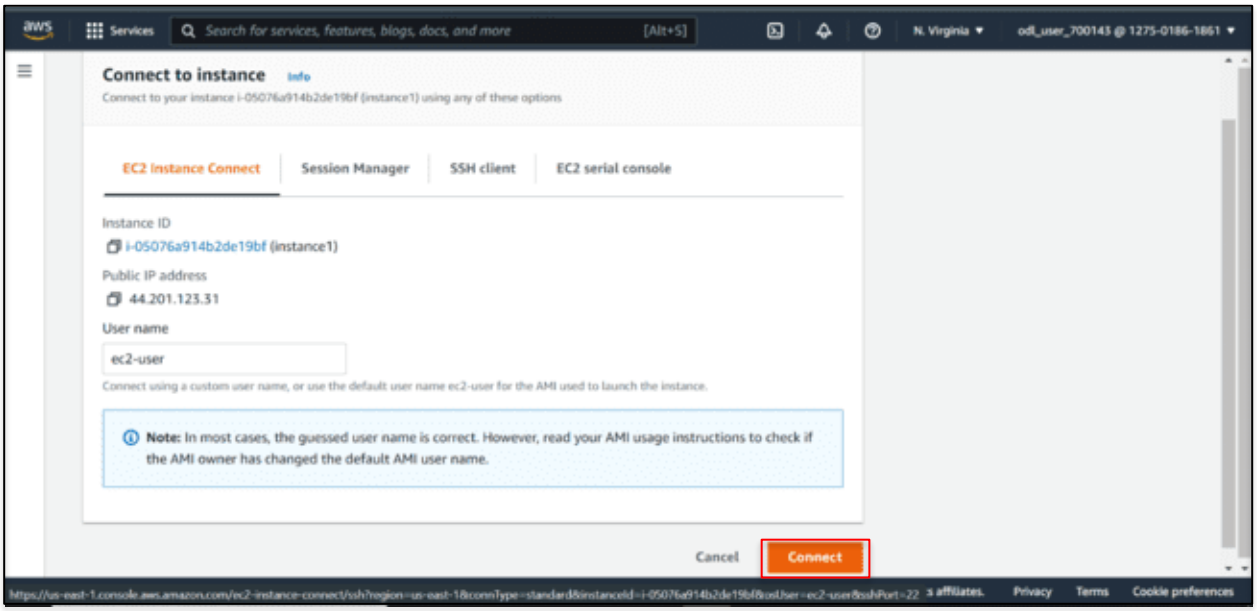


Step – 4 Terminal for SSH:

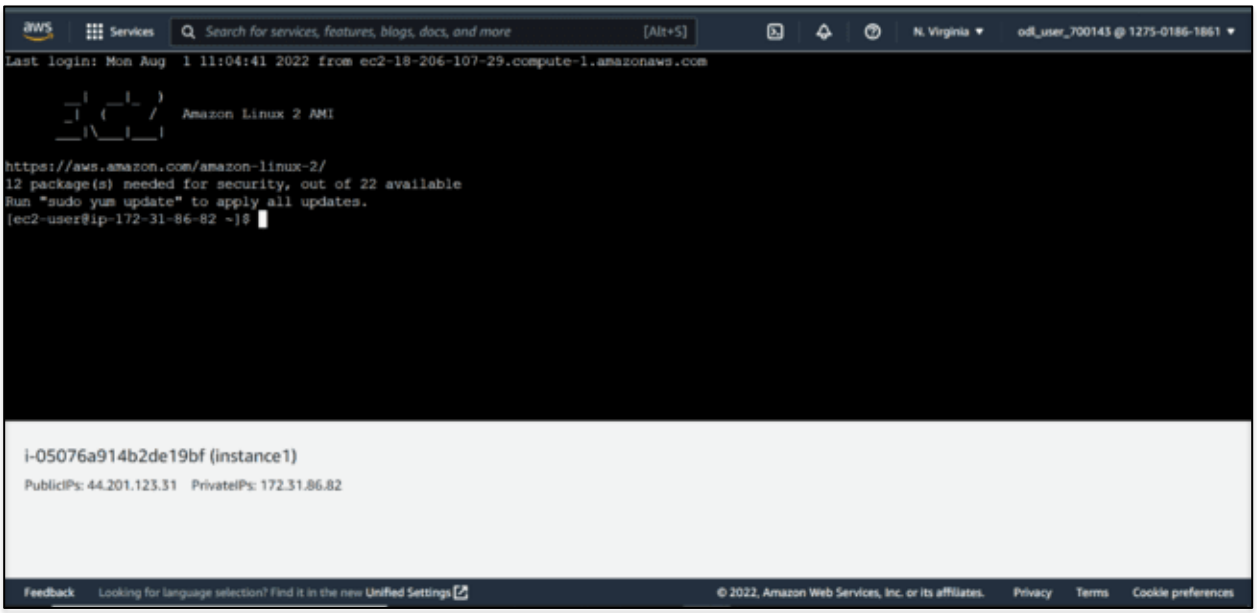
4.1 Navigate to **EC2** in Console, Click on **Instance,** and click on **Connect:**



4.2 Click on **Connect:**



4.3 The EC2 terminal opens up:



Note: Enter the following commands in EC2 terminal

i. sudo su
ii. yum install mysql
iii. mysql -h <YOUR RDS instance endpoint> -P 3306 -u <USERNAME of your RDS Instance> -p
iv. Enter password when prompted