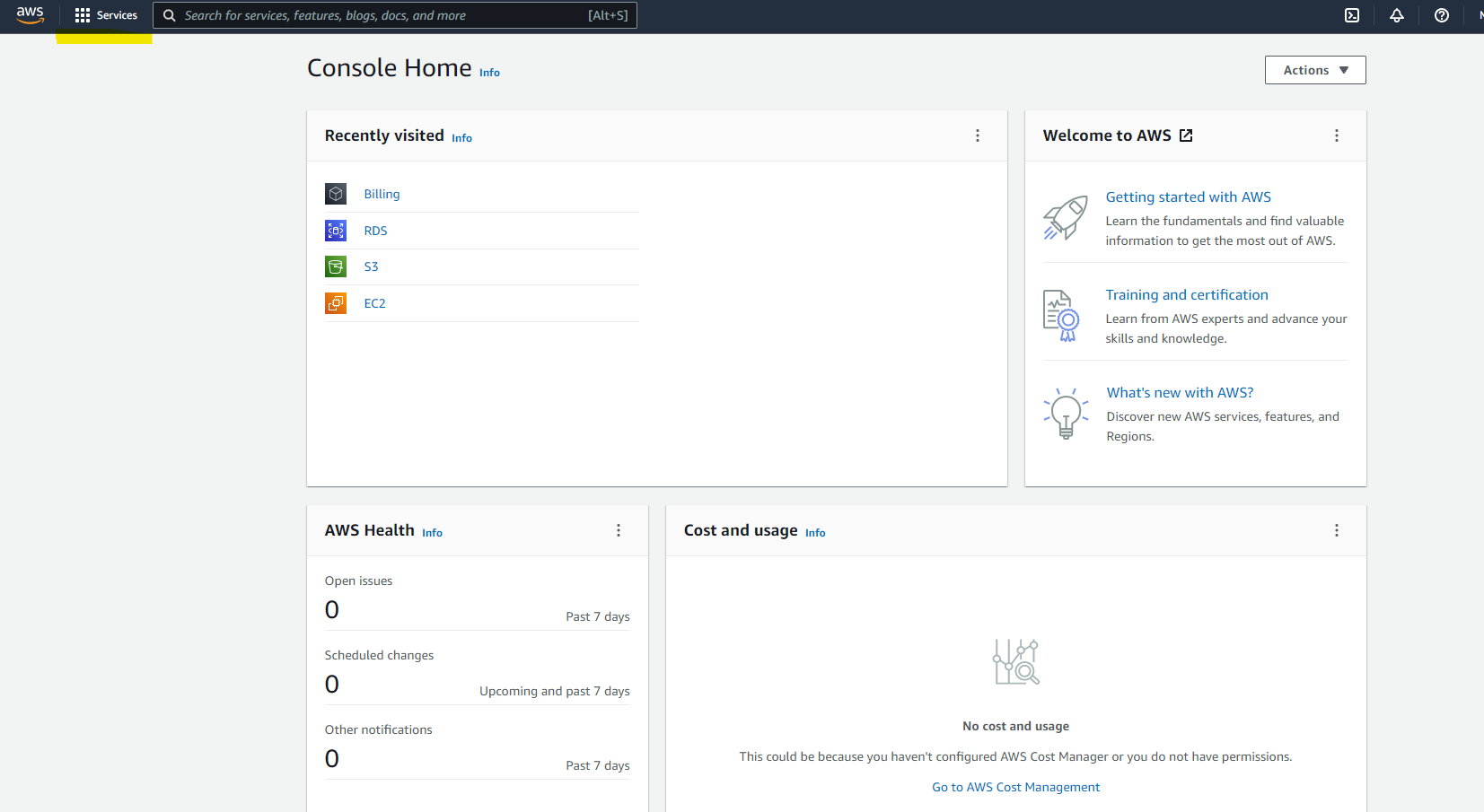
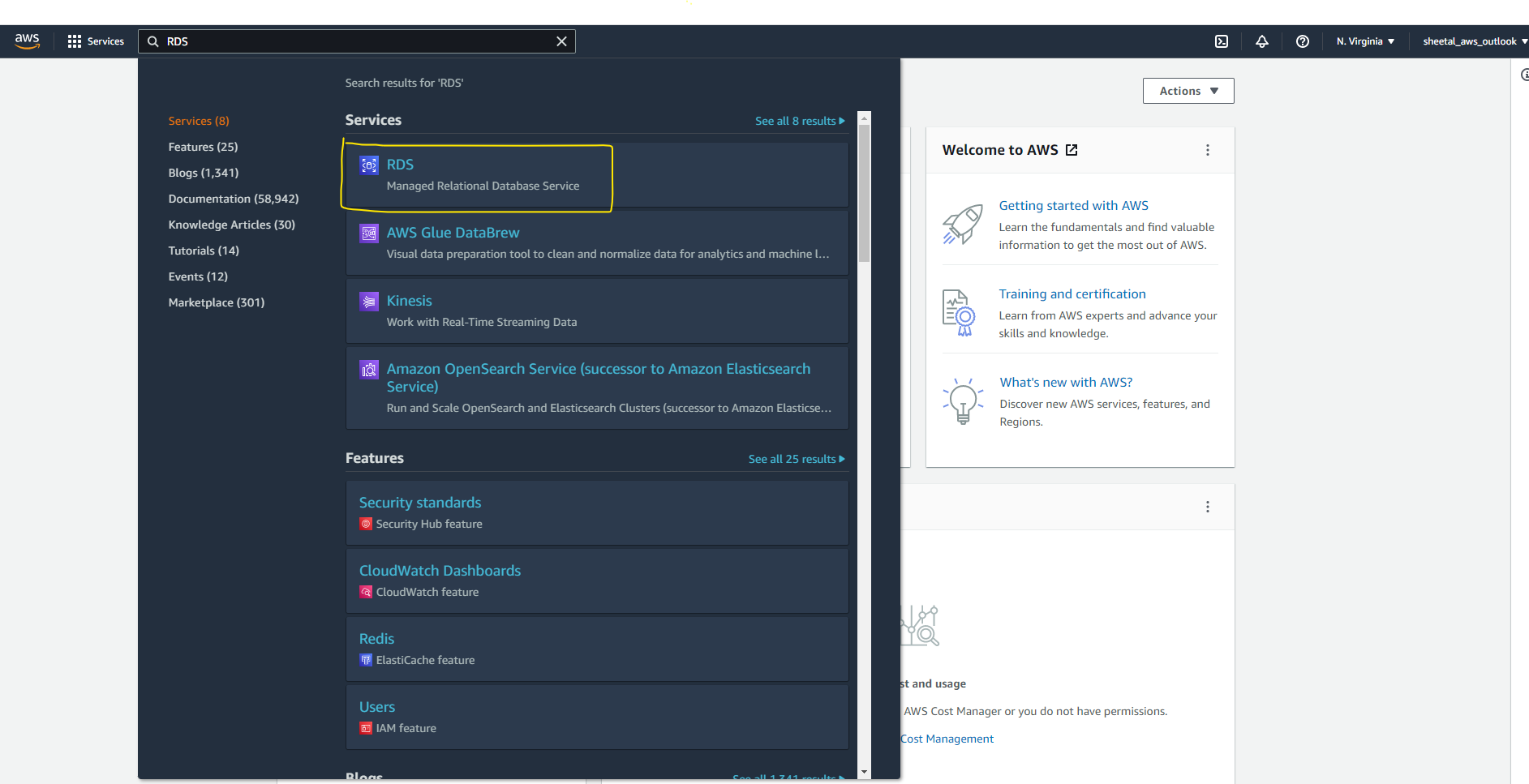
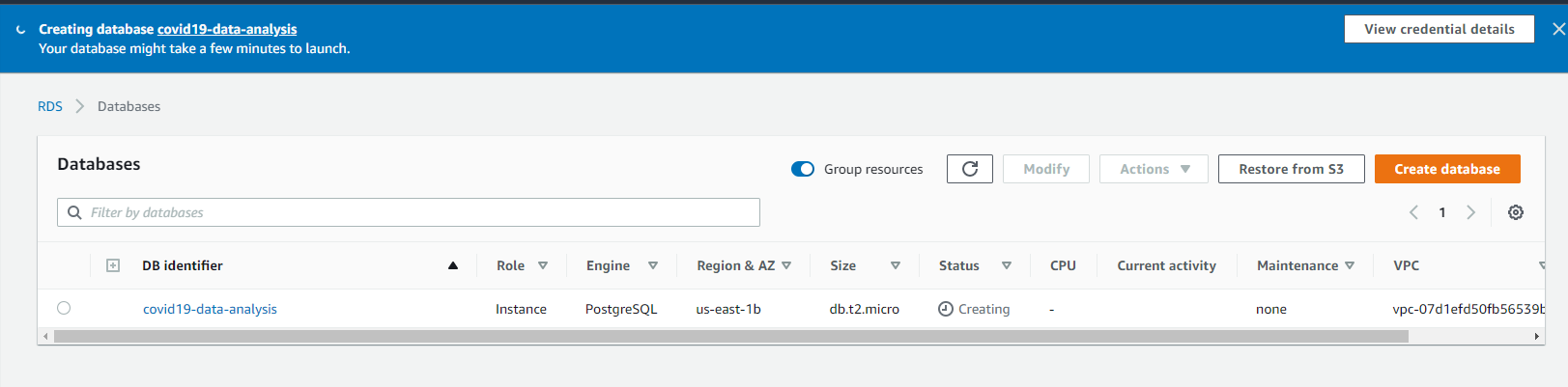
AWS Relational Database creation

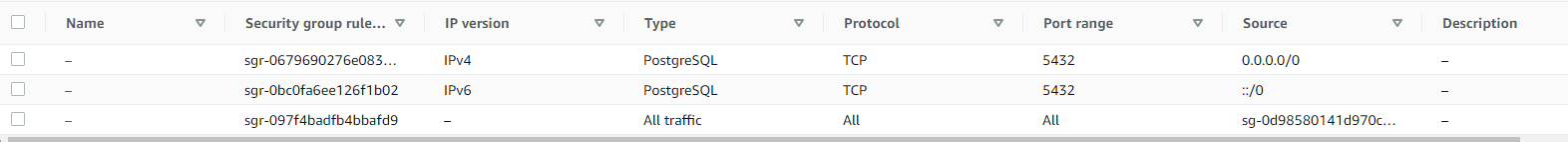
1. Open aws.amazon.com in your web browser and create new account or sign in to your existing account
2. Once signed in you will be directed to the AWS management console
3. At the top of the page click the services drop down menu highlighted below in yellow.
4. Search for RDS in services and select as show below

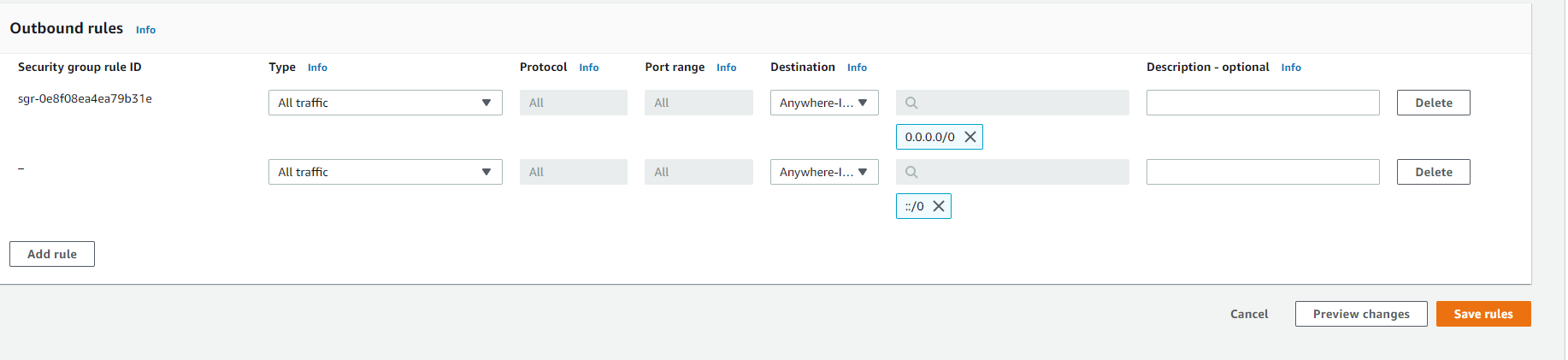


1. Click on create database orange button below in Database section and select “standard create”
2. Use Postgres as database engine
3. Version 12.8-R1
4. Select Free Tier template
5. Name the database instance
6. Create database username (covid19-data-analysis) and password, this is different from aws account user and password.
7. Move to connectivity section -> Additional connectivity -> Select Public Access as yes.
8. Create Database. Wait for the status to change as “available” from “creating database….” On top left corner as shown in screenshot.



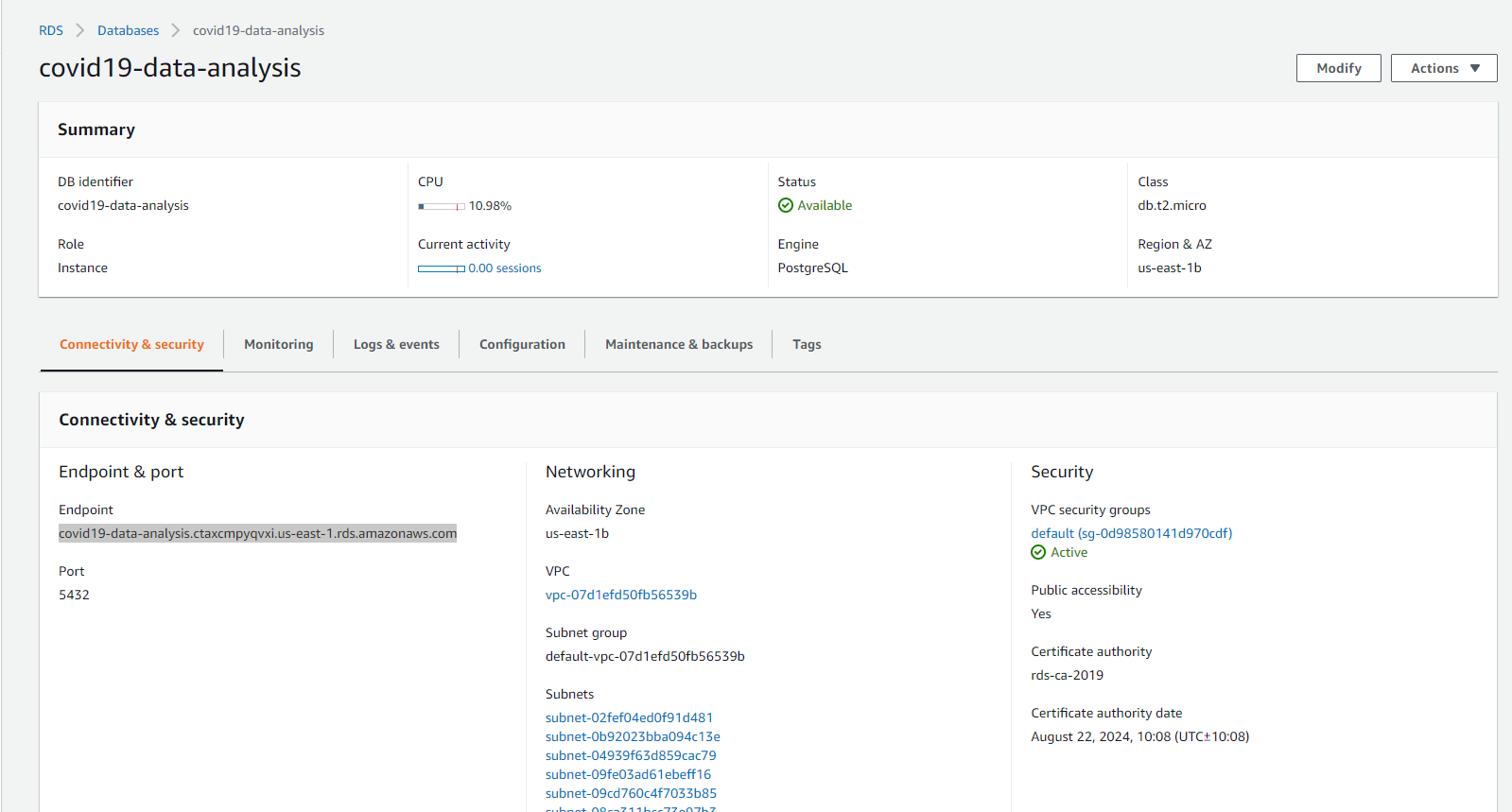
Setting up security rules for AWS

1. Select the database covid19-data-analysis from database page
2. From the database page scroll down to connectivity and security
3. Click the link under security section , note the id which begins with sg-followed by a set of numbers.
4. In the new security group page, you will see a list of security groups. Click on security id for your database.
5. Go to Edit inbound rules. This let’s you customize which IP addresses connect with your database.
6. In Type scroll down to add new rules and select PostgreSQL -> Use dropdown under Source and choose “Anywhere IPv4”. This should be avoided for PROD but okay for Development. Next click Save rule. Repeat this step for “Anywhere IP6”. You should have added 2 new rules by now.
   1. 
7. Click on Outbound rules -> Edit Outbound rules
8. Set Type “All Traffic” and Destination as “Anywhere” -> Save Rules.

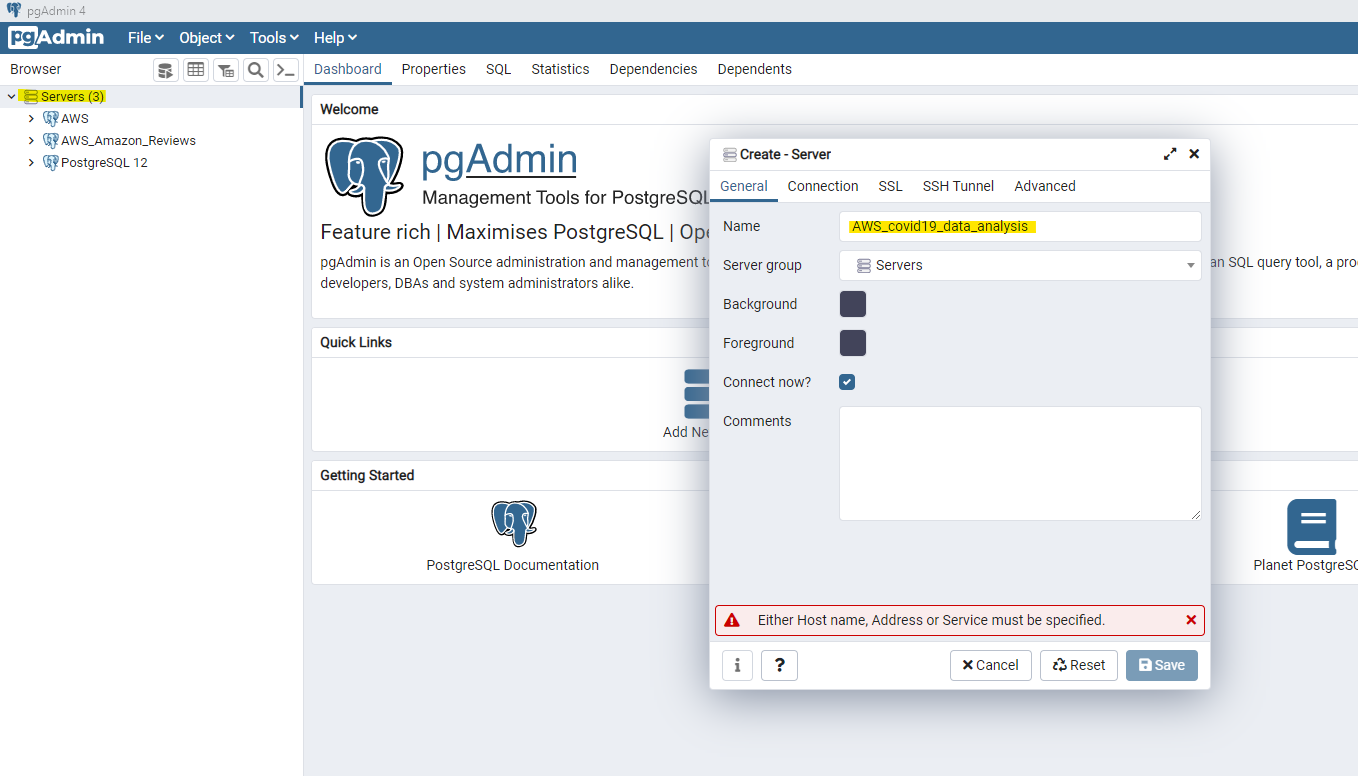


Setting up connection for AWS in PGAdmin4

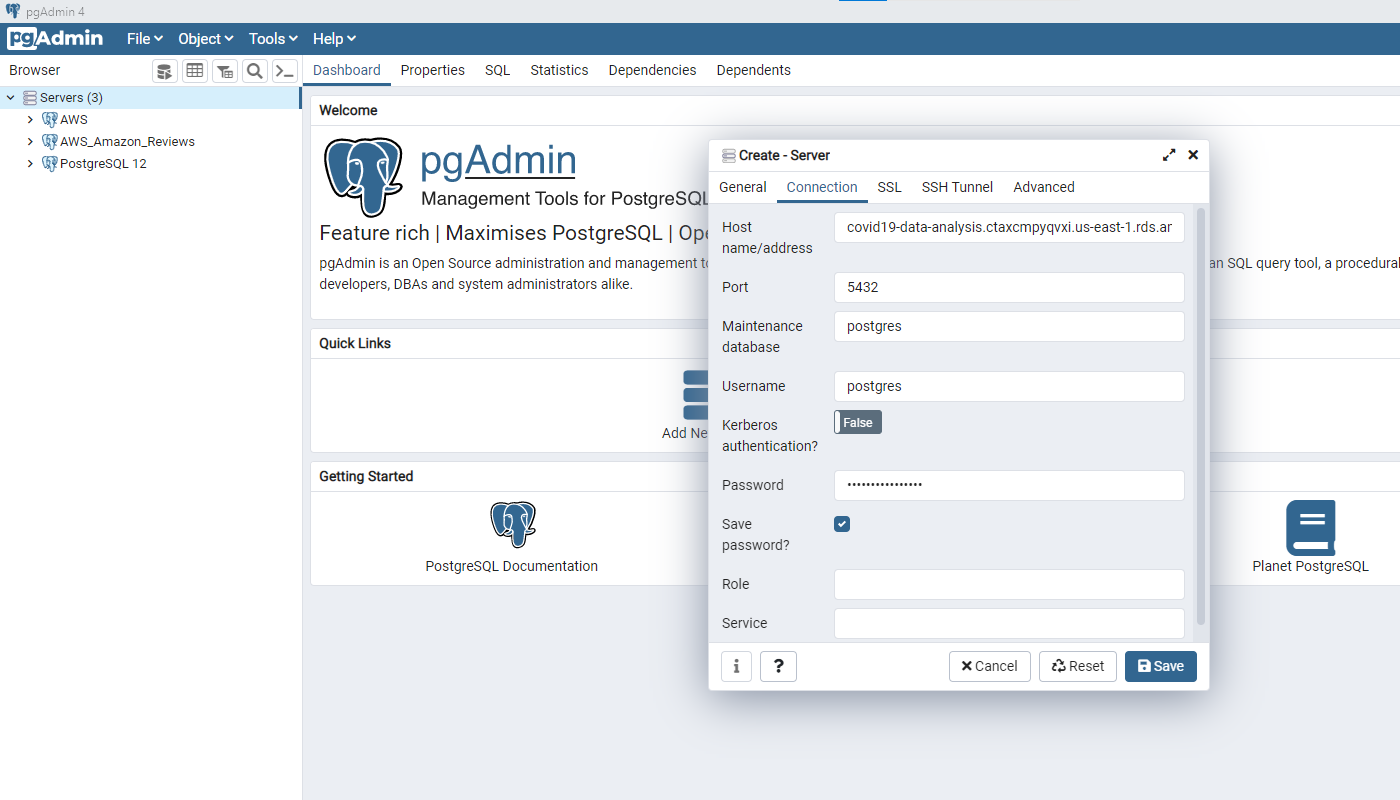
1. In your AWS account -> Services -> RDS -> DB instances link -> Covid database instance we created.
2. Under connectivity and Security tab copy the URL under endpoint heading



1. Open PGadmin4 -> Right click on Servers -> Create new Server



1. On connection Tab past the endpoint connection, we copied from aws console
2. Enter the database password you created while creating the instance in AWS , use port 5432 and click Save.



Connection Link for connecting AWS database to pandas

db\_string = f"postgresql://postgres:{db\_password}@covid19-data-analysis.ctaxcmpyqvxi.us-east-1.rds.amazonaws.com:5432/covid19\_data\_analysis"

password has been shared separately.