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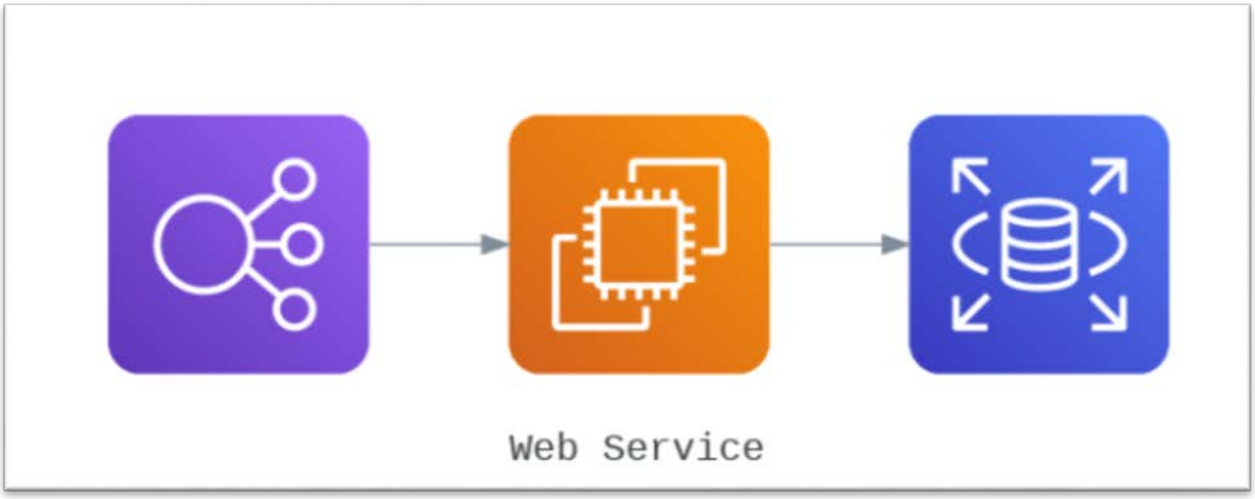
Assignment 5

Ques: Complete the below task:
1. Explain the below AWS Architecture
2. Implement the same in the AWS (only do a proper connection between service)



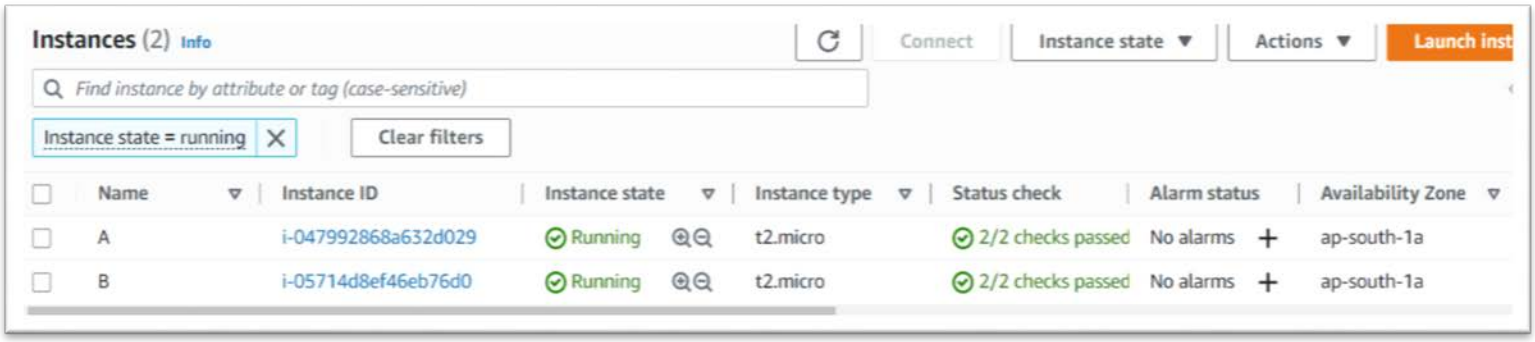
Explanation:

Here we need to do load balancing , so to implement load balancing we need to have at least two instances, and then only we will be able to verify whether load is distributed or not (accessing it through the ALB DNS name).

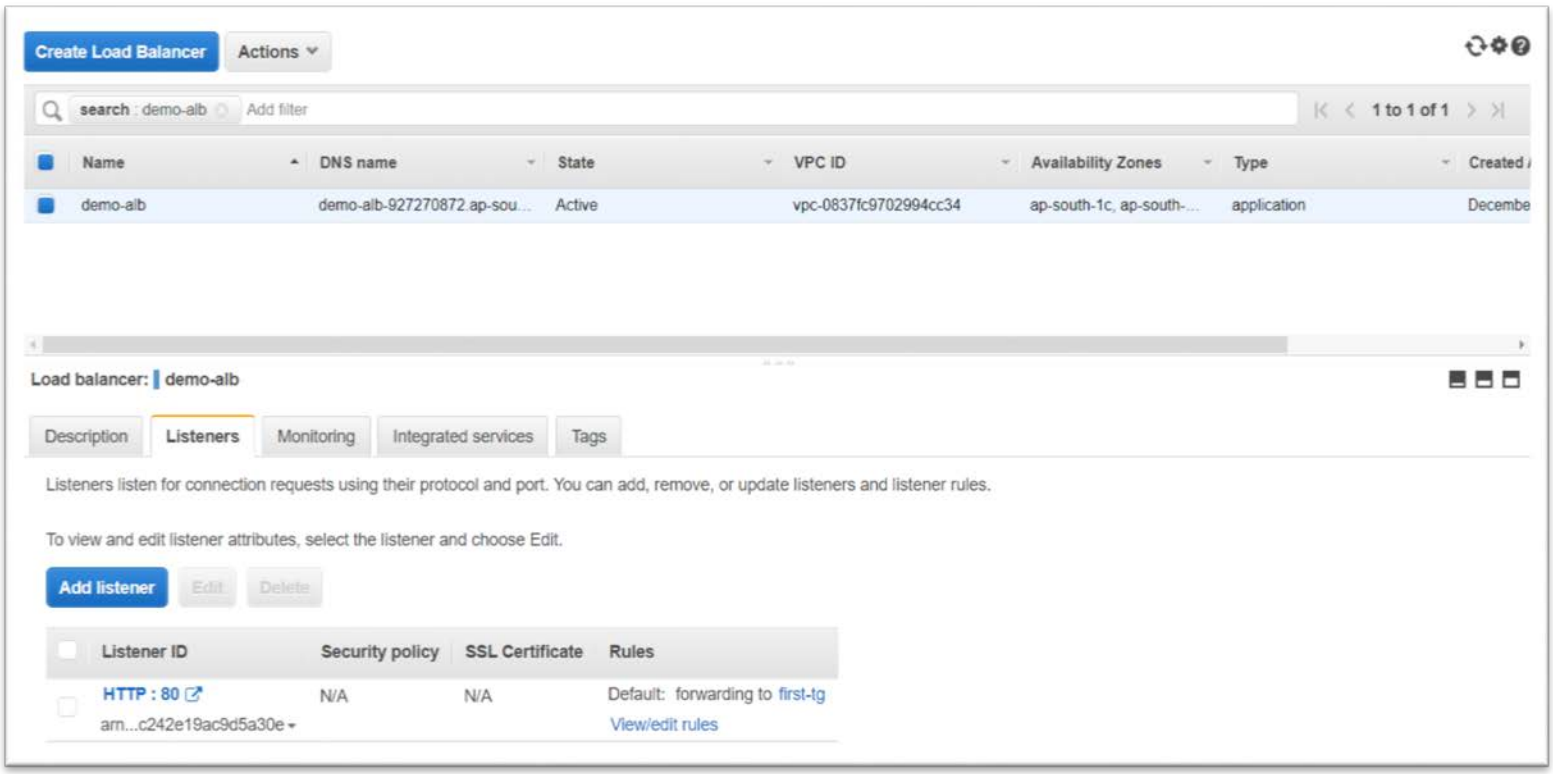
Following the completion of the preceding steps, we must connect one of our load-balanced instances to the RDS service.

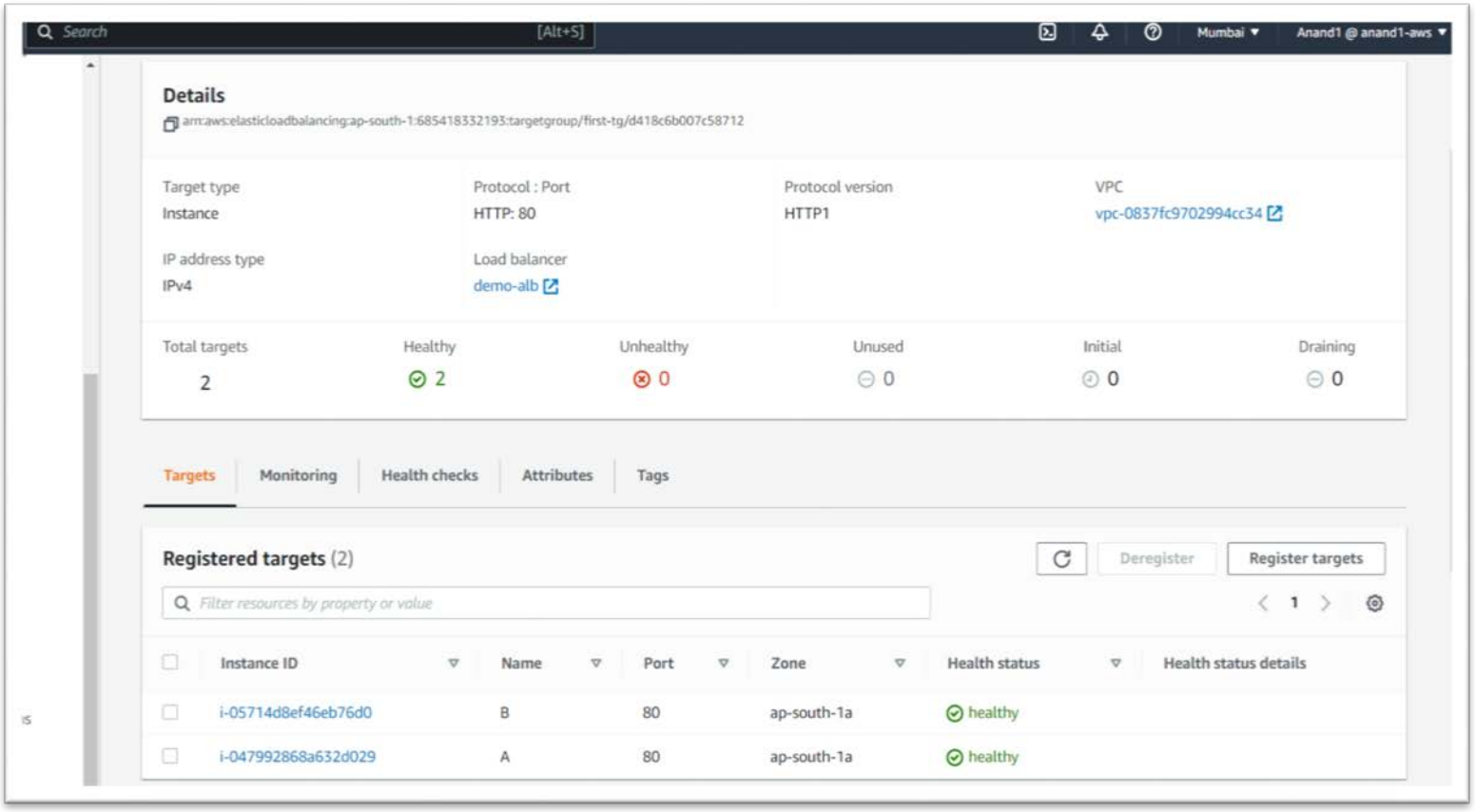
Implementation:

First of all, we have to launch two Linux instances.

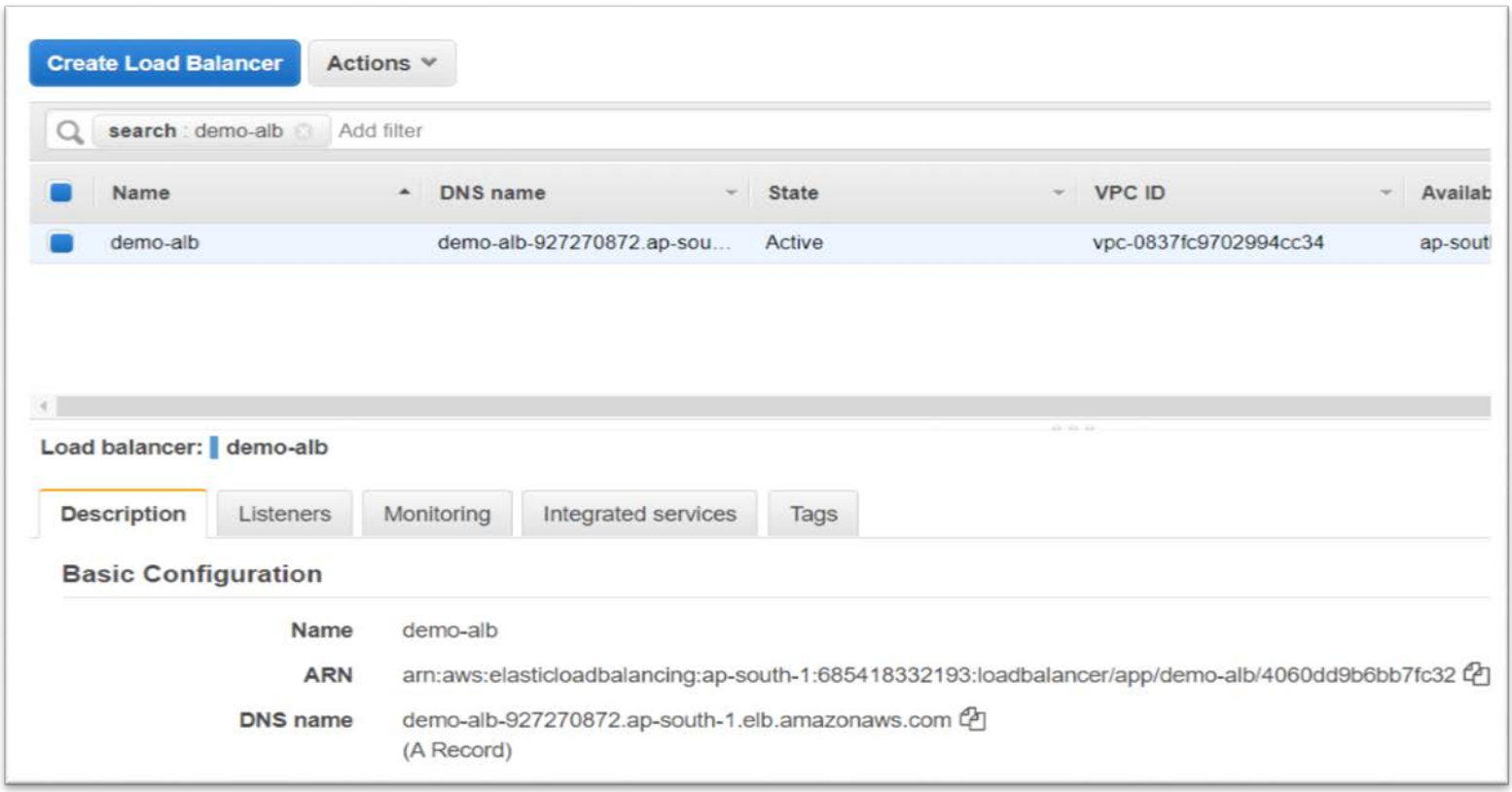


Now we need to load balance, so we will use ALB for that. Now we know in ALB we need to have a target group, so basically we will be using these two instances (A and B) in the target group. Our target group is referred to here as "first TG."

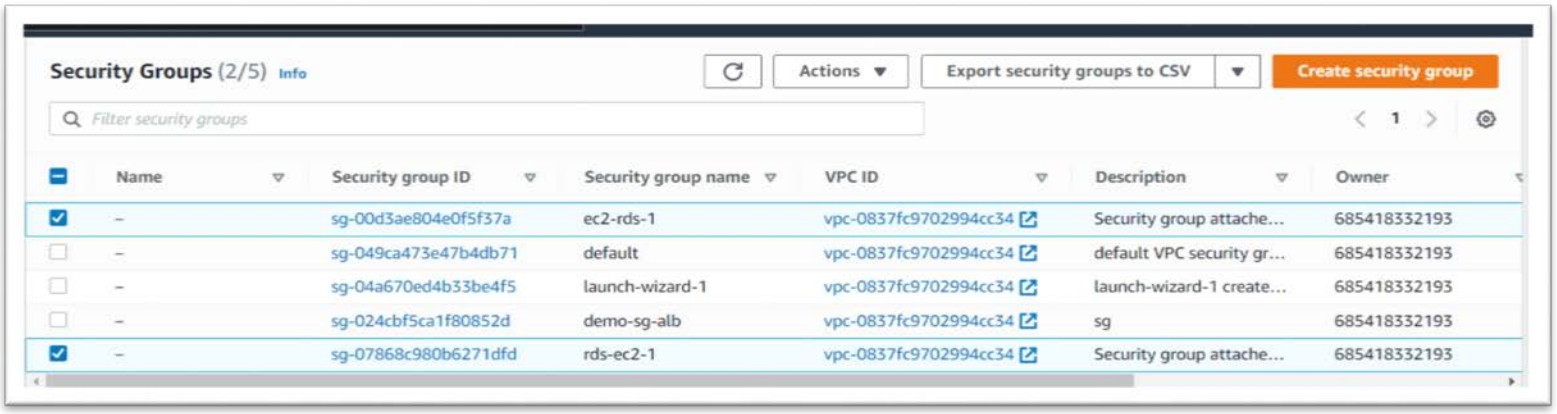




After doing all the above steps, we need to access our ALB using its DNS name to check if it is load balancing or not.

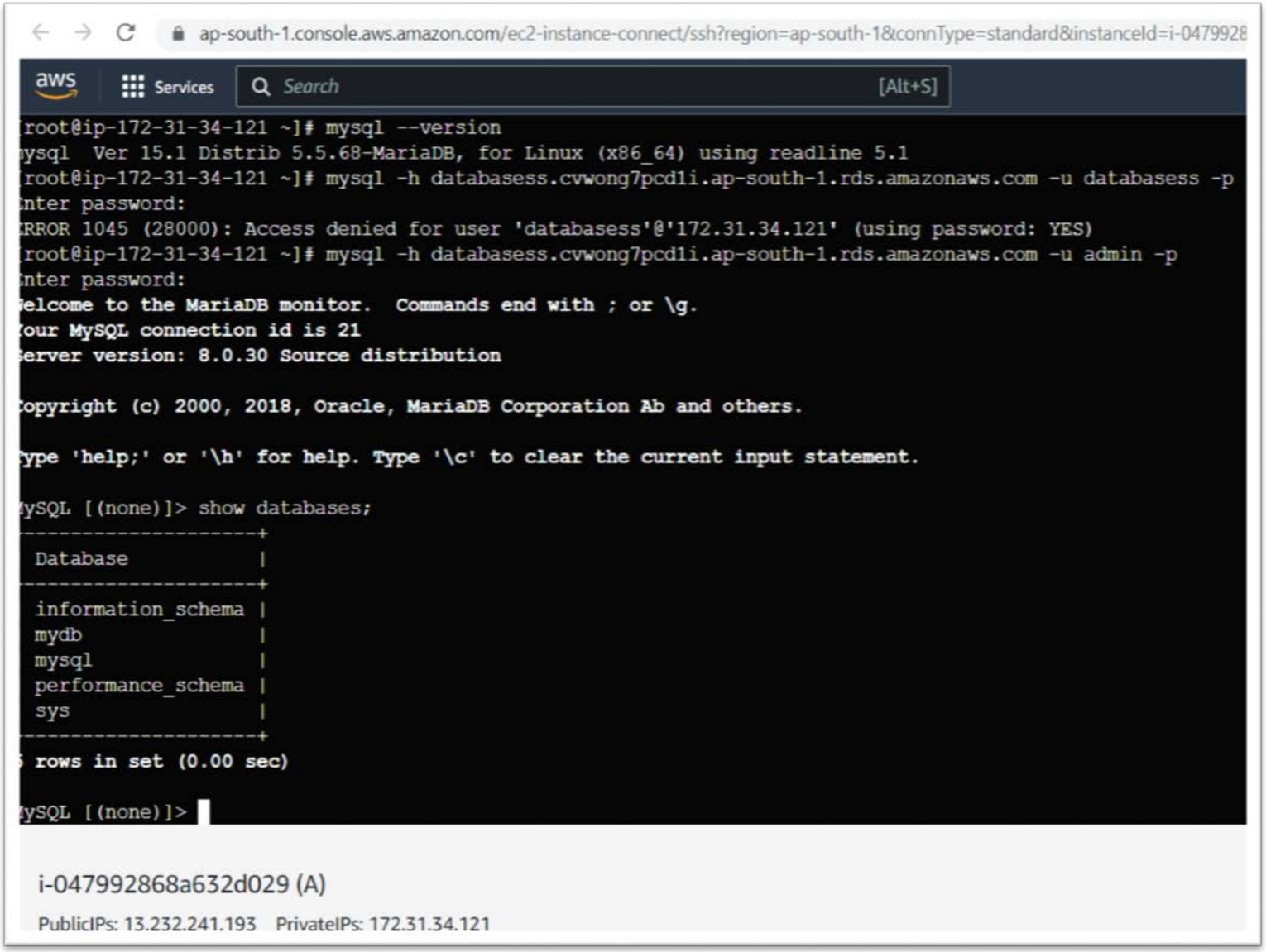


After associating one of the instances with RDS (MySQL) in free tier settings, AWS maintains these two security groups (ec2-rds-1 and rds-ec2-1) so that we can access our database without having to configure anything.



To check if connection is done properly or not we need access our DB from the attached instance (here instance A) . To do so first need install mysql on our instance:
command to install mysql is : **sudo yum install mysql**
To check version : **mysql –version**
To check connectivity: **mysql –h <database endpoint> -u < mater username> -p**
hit enter and then type your password

After following all above steps if we see below screen then our connection is done properly.


ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanceId=i-0479928
aws
Services
Search
[Alt+S]
[root@ip-172-31-34-121 ~]# mysql --version
mysql Ver 15.1 Distrib 5.5.68-MariaDB, for Linux (x86_64) using readline 5.1
[root@ip-172-31-34-121 ~]# mysql -h databasess.cvwong7pcd1i.ap-south-1.rds.amazonaws.com -u databasess -p
Enter password:
ERROR 1045 (28000): Access denied for user 'databasess'@'172.31.34.121' (using password: YES)
[root@ip-172-31-34-121 ~]# mysql -h databasess.cvwong7pcd1i.ap-south-1.rds.amazonaws.com -u admin -p
Enter password:
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MySQL connection id is 21
Server version: 8.0.30 Source distribution
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
MySQL [(none)]> show databases;
+--------------------+
| Database |
+--------------------+
| information_schema |
| mydb |
| mysql |
| performance_schema |
| sys |
+--------------------+
5 rows in set (0.00 sec)
MySQL [(none)]>
i-047992868a632d029 (A)
PublicIPs: 13.232.241.193 PrivateIPs: 172.31.34.121