

Writeups for Project

1. Create Database by choosing RDS engine (Standard create-MySQL).
2. Choose Database instance name(identifier)-ProjectDB and set database password, version,template.
3. Database storage- gp2(general provisioned ssd)
4. Select availability zone (EC2 must have same AZ as of database) also security group chosen while creating DB should be same in EC2 so that DB and EC2 can connect .
5. Click on Create Database.
6. Database has been created.
7. Create Launch Template for Auto Scaling Group.
8. Choose AMI(Linux) and instance type(t2.micro).
9. Add EBS storage volume.
10. Add Tags and click on Create launch Template.
11. Launch Template has been created.
12. Create Auto Scaling Group.Choose name for ASG and select the launch template that has been created above and click on Next.
13. Select AZ(should be same as used while creating DB).
14. Attach ASG to Load Balancer and click on next.
15. Specify Minimum,Maximum and Desired number of instances(Minimum should always be greater than 1). Click on next.
16. Add notifications if required.

17. Add Tags.
18. Review and click on create ASG.
19. ASG has been created successfully.
20. Number of EC2 instances created will be equal to number of instances specified in Desired capacity while creating ASG. Hence 3 EC2 instances have been created.
21. Now to connect the EC2 instance to database you must edit inbound rules and add mysql on port no 3306. Also to SSH into the instance port 80 must be specified in inbound rule.
22. Now connect to the EC2 instance by clicking on connect.
23. Below are the commands used to access the database through EC2 instance. Employee table has been created which has the employee details.

-sudo su

-yum install mysql

-mysql -h<endpoint> -P 3306 -u admin -p

Enter password

-show databases;

-create database Project;

-use Project;

-create table Project.employee(empid integer,empName varchar(20),empDept varchar(20),empSalary integer);

-insert into Project.employee values(1,"Rohit", "IT",50000);

-insert into Project.employee values(1,"Mansi", "Sales",55000);

-insert into Project.employee values(1,"Aditi", "HR",35000);

-select * from Project.employee;

-select empName from Project.employee where empid=3;