

1. Create EC2 machine.
2. Create RDS database.
 - a. Choose a database creation method->Standard Create
 - b. Engine options->MySQL
 - c. Templates->Free-tier
 - d. Settings
 - i. ->DB instance identifier:employee.
 - ii. ->Credentials Settings
 1. ->Master username:admin;
 2. ->Master password:adminadmin,
 3. ->Confirm master password:adminadmin
 - e. Storage autoscaling->Uncheck Enable storage autoscaling option.
 - f. Connectivity->Connect to an EC2 compute resource.
 - g. In the EC2 instance dropdown-> select EC2 instance.
 - h. Additional configuration->
 - i. Backup->Uncheck Enable automated backups.
 - i. Click on create Database button.
3. Create s3 bucket->addemployee
4. Connect to EC2 machine.
 - a. `sudo apt update`
 - b. `sudo apt install mysql-client`
 - c. `mysql -h employee.cvlrhiclnrl4.us-east-1.rds.amazonaws.com -u admin -p adminadmin`
 - d. `mysql> show databases;`
 - e. `mysql> create database employee;`
 - f. `mysql> use employee;`
 - g. `mysql> create table employee(`
 - h. `-> empid varchar(20),`
 - i. `-> fname varchar(20),`
 - j. `-> lname varchar(20),`
 - k. `-> pri_skill varchar(20),`
 - l. `-> location varchar(20));`
 - m. `mysql-> show tables;`
 - n. `mysql-> exit`
5. `ubuntu> git clone https://github.com/hshar94/aws-live.git`
6. `ubuntu> cd aws-live`
7. `ubuntu/aws-live> nano config.py`

- a. `customhost = "employee.cvlrhiclnrl4.us-east-1.rds.amazonaws.com"`
 - b. `customuser = "admin"`
 - c. `custompass = "adminadmin"`
 - d. `customdb = "employee"`
 - e. `custombucket = "addemployee"`
 - f. `customregion = "us-east-1"`
8. `ubuntu/aws-live>sudo apt-get install python3`
9. `ubuntu/aws-live>sudo apt-get install python3-flask`
10. `ubuntu/aws-live>sudo apt-get install python3-pymysql`
11. `ubuntu/aws-live>sudo apt-get install python3-boto3`
12. `ubuntu/aws-live>sudo python3 EmpApp.py`
13. In IAM service, create a role (EC2S3role) for EC2 for AdministrativeAccess
14. In IAM service
- a. Access Management-> Roles->CreateRole->AWS Service
 - b. ->Service or usecase->EC2->Next
 - c. ->Check Administrative Access->Next
 - d. ->Rolename-> EC2S3role->Click on createRole button.
15. Go to EC2 service.
16. Inside Actions->Security-ModifyIAMRole
17. Select EC2S3role->Click on UpdateRole button.