Cloud Based Enterprise System

Mini-Project

Submitted by:

Patil Amit Gurusidhappa (19104004)

Submitted to:

Dr. Bharat Gupta

Department of CSE/IT

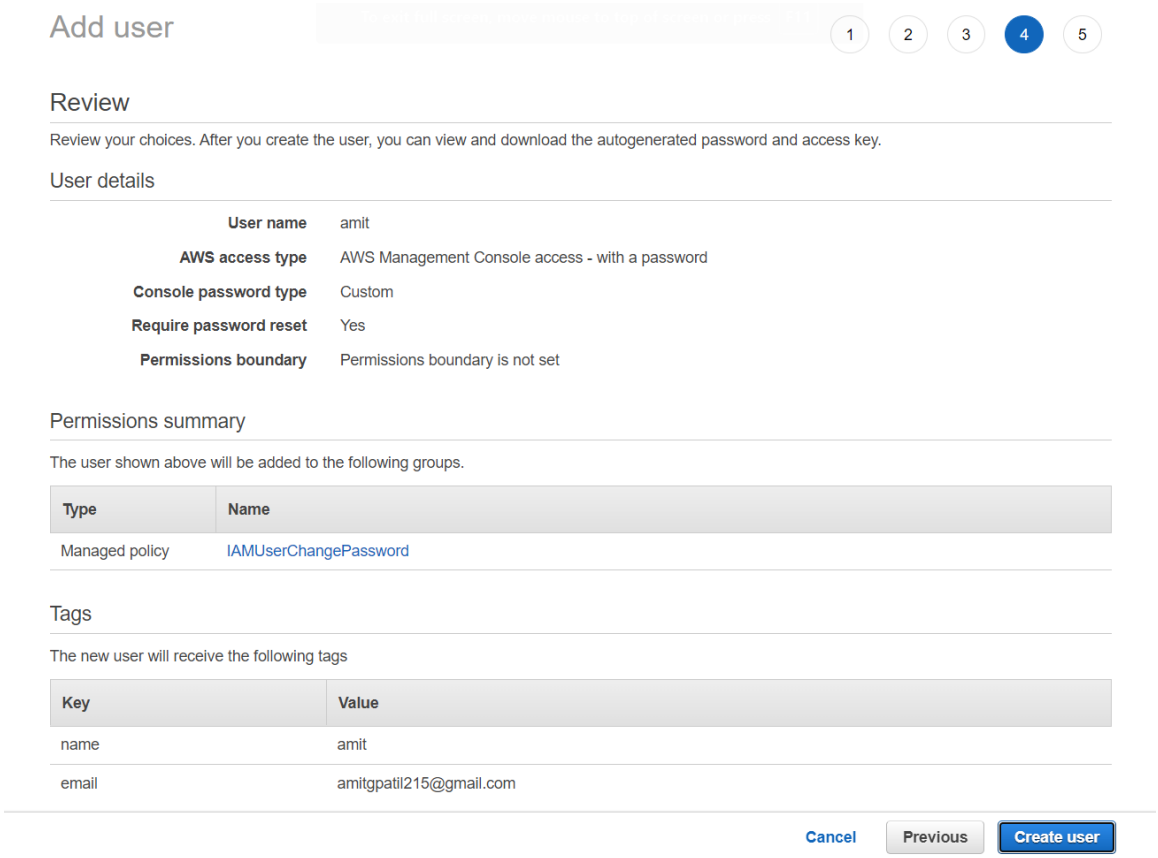
Jaypee Institute of Information Technology University, Noida

MAY 2022

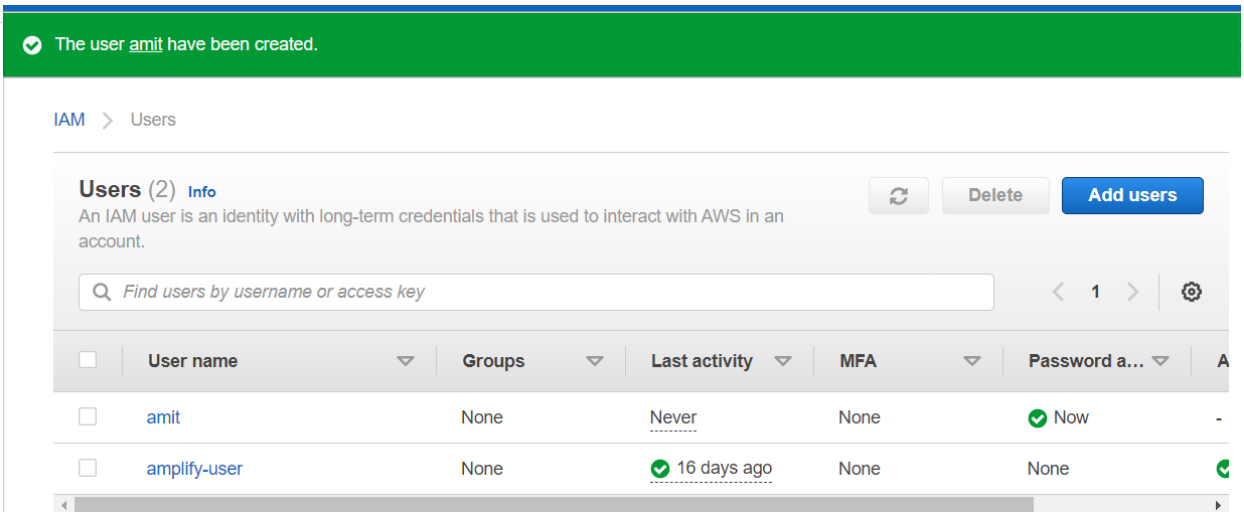
Table of Contents

1. User details in AWS.

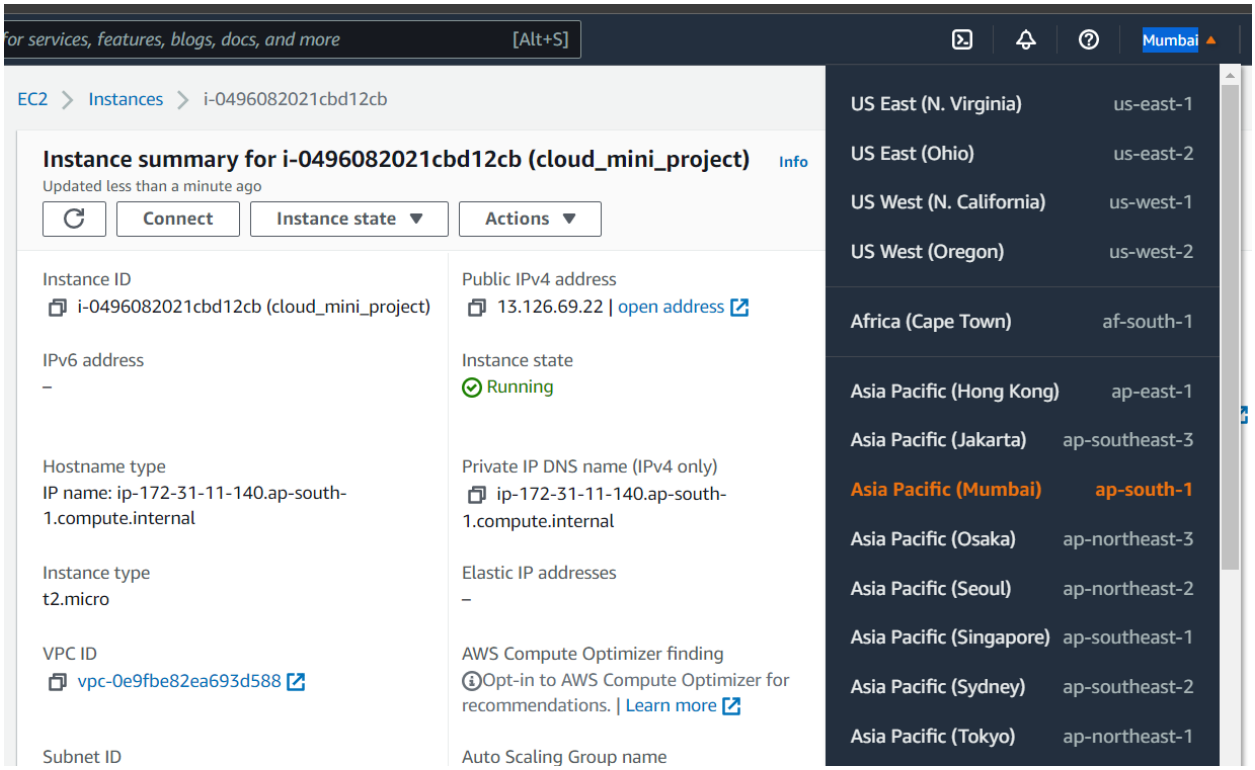
1.1 Adding new user



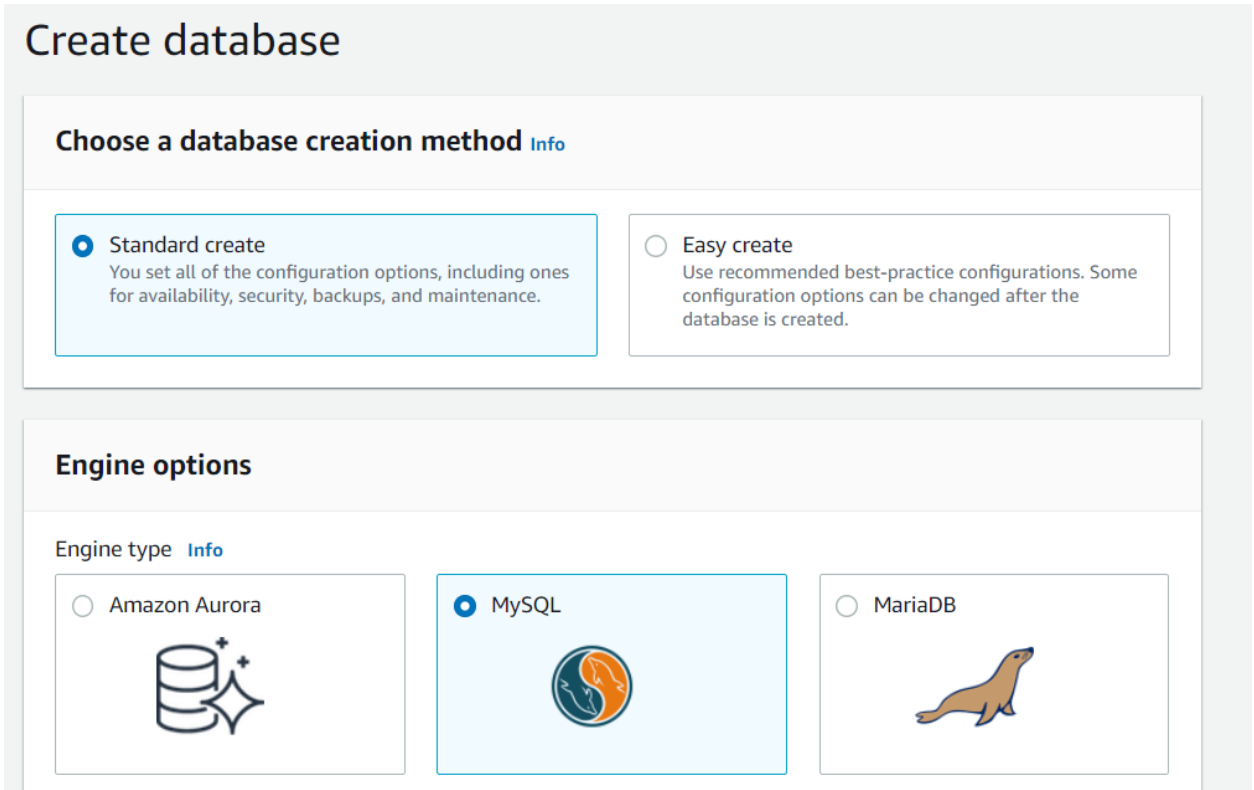
1.2 User Details



2. Region/Zone selected (Indian/ Data center) in AWS.



3. Developed application should have a database in AWS only e.g. AWS RDS



Creating react_mysql database

```
MariaDB [(none)]> create database react_node
    -> ;
```

Creating tables

```
MariaDB [(none)]> use react_node
Database changed
MariaDB [react_node]> CREATE TABLE admin ( id int(11) NOT NULL, name varchar(30) NOT NULL ) ENGINE=InnoDB DEFAULT CHARSET=utf8;
Query OK, 0 rows affected (0.052 sec)

MariaDB [react_node]> CREATE TABLE employees ( id int(11) NOT NULL, adminId int(11) NOT NULL, name varchar(30) NOT NULL ) ENGINE=InnoDB DEFAULT CHARSET=utf8;
Query OK, 0 rows affected (0.043 sec)

MariaDB [react_node]> CREATE TABLE performreview ( id int(11) NOT NULL, refid int(11) NOT NULL, content text NOT NULL ) ENGINE=InnoDB DEFAULT CHARSET=utf8;
Query OK, 0 rows affected (0.033 sec)

MariaDB [react_node]>
```

Show employee table

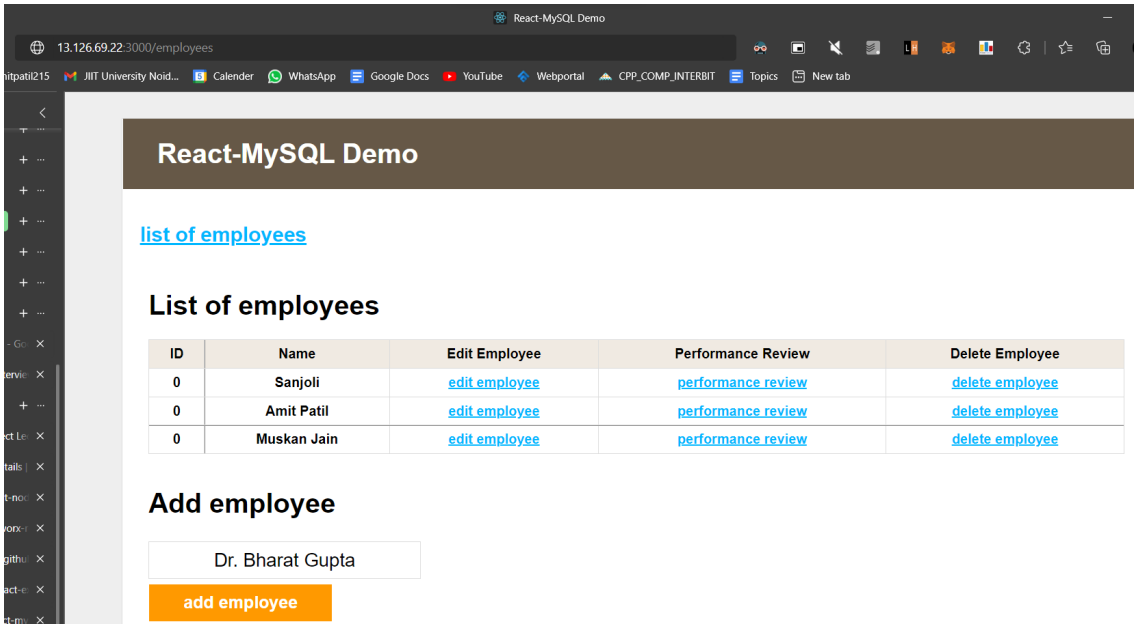
```
MariaDB [react_node]> select * from employees;
+----+---------+------------------+
| id | adminId | name             |
+----+---------+------------------+
|  0 |       1 | Amit patil       |
|  0 |       1 | Dr. Bharat Gupta |
|  0 |       1 | Sanjoli Goyal    |
|  0 |       1 | Muskan Jain      |
+----+---------+------------------+
4 rows in set (0.003 sec)
```

3.1Creating a student database in MYSQL/ other database

3.2 Creating tables (after normalization) for the above created database. It should consist of the student's details, subject registered, fees paid, grades, etc.

4 The application should be able to insert/ delete/ query data from a database stored in AWS.

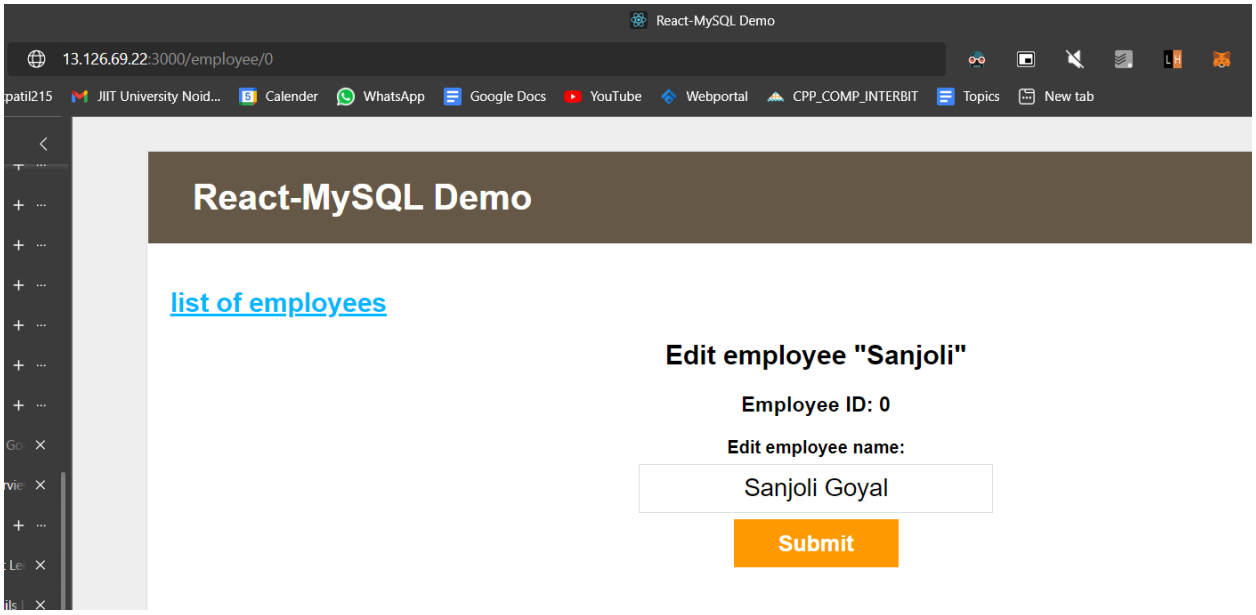
Insert New Employee



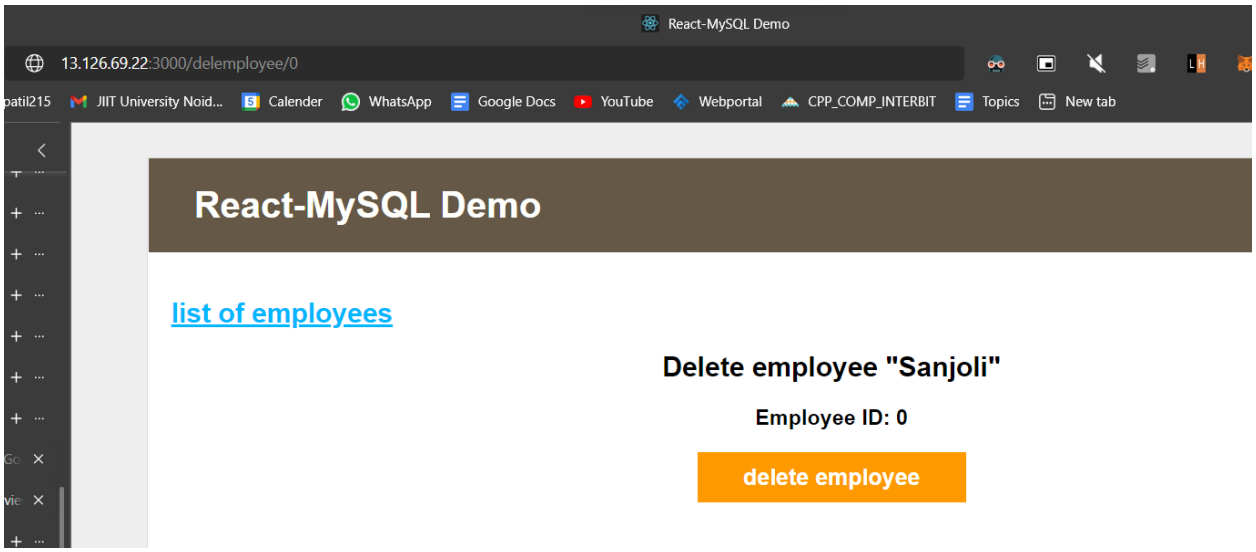
Console logs

```
Inserting a new employee...
{ newname: 'Amit Patil' }
OkPacket {
  fieldCount: 0,
  affectedRows: 1,
  insertId: 0,
  serverStatus: 2,
  changedRows: 0
}
```

Edit Employee Name

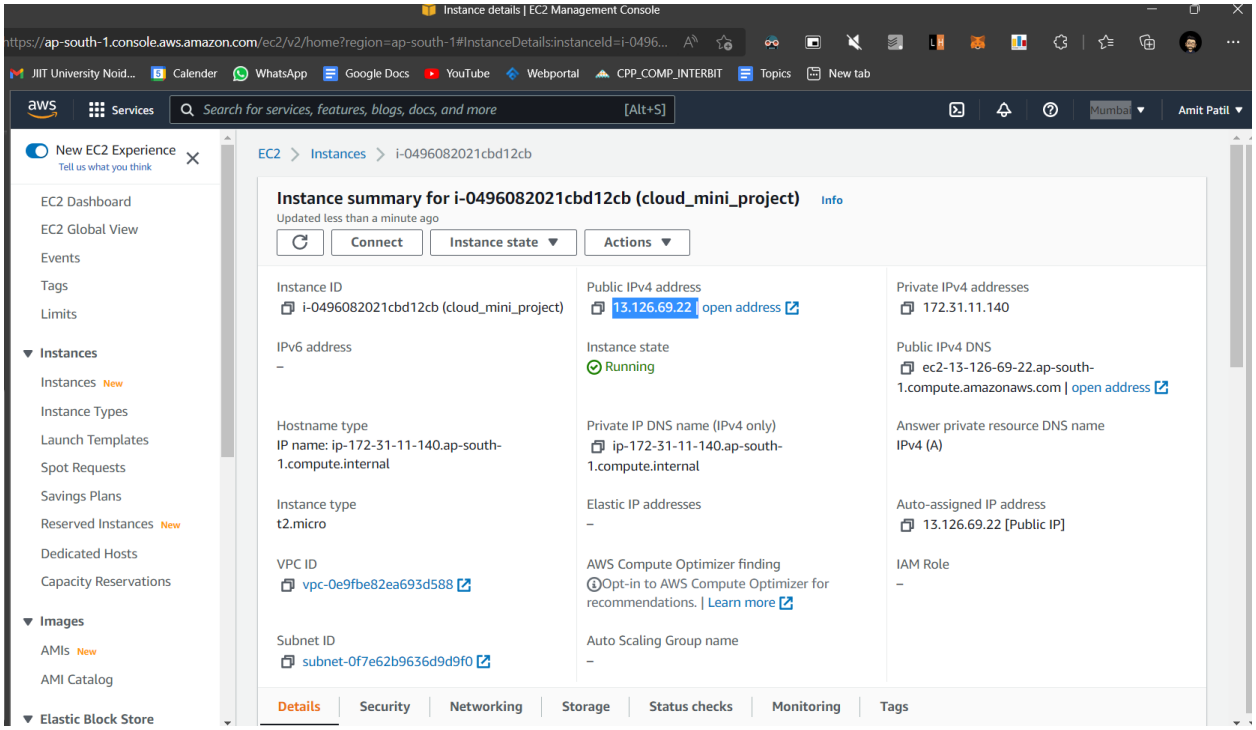


Delete Employee



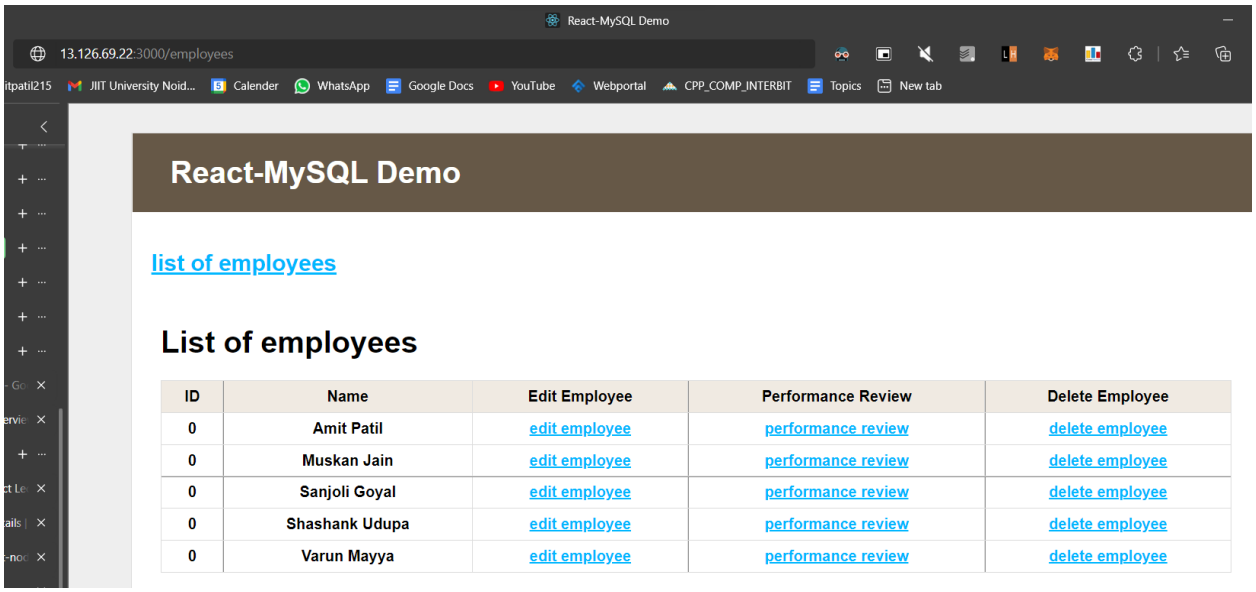
5 Snapshots of IP address, starting page URI of the application from the browser.

EC2 IP address Snapshot
IP address : **13.126.69.22**



Application Web Browser URL

Running on url : https:/13.126.69.22:3000/employees



6 Architecture diagram/ Flow Chart of the application

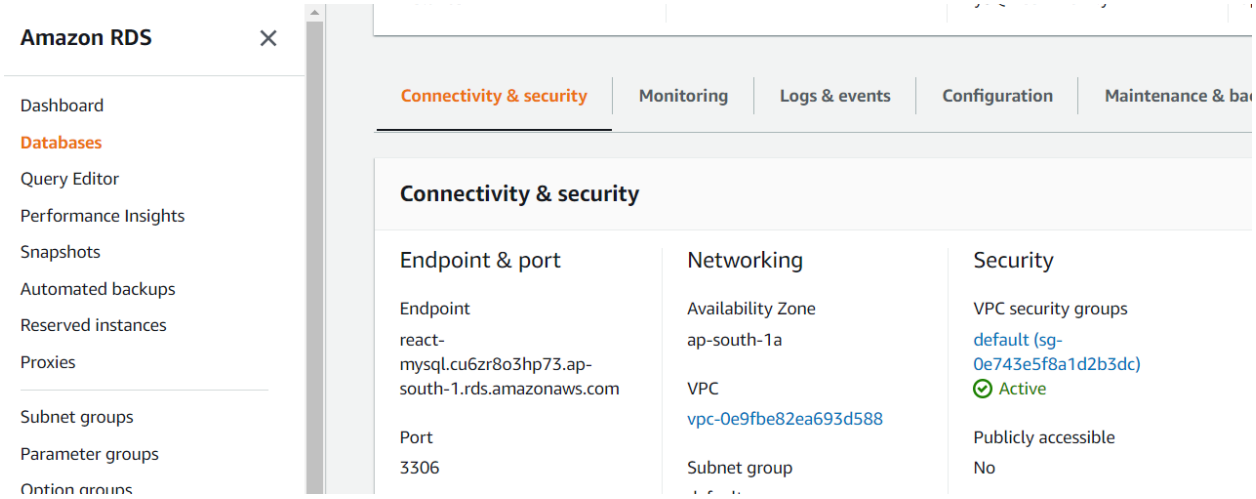
7 Tools and techniques used in AWS

8 Interaction between different modules in AWS (EC2, Database, S3, etc)

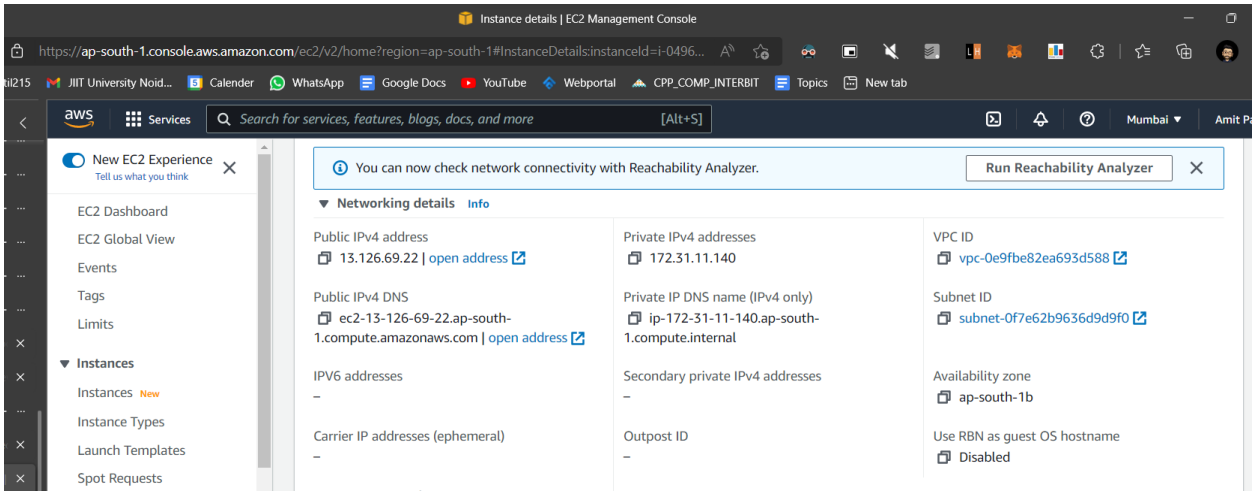
9 Data stored in Storage bucket (if used)

10 Snapshots of End point(s).

RDS Endpoints

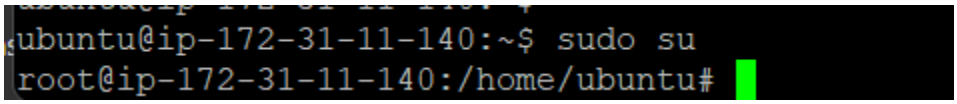


EC2 Endpoints

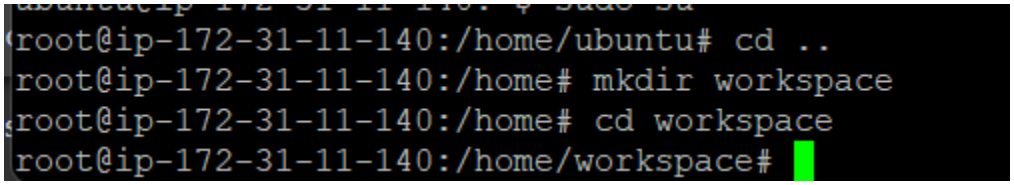


11 Installation of the software(s) in AWS

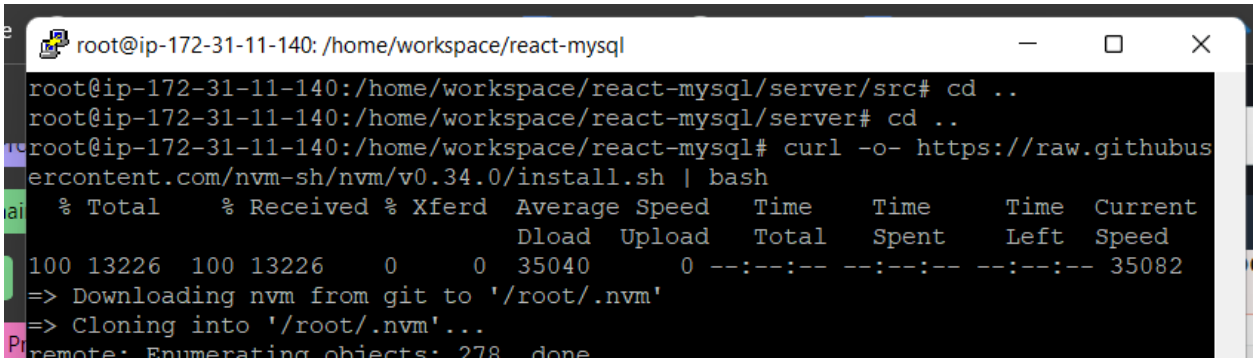
Getting root access



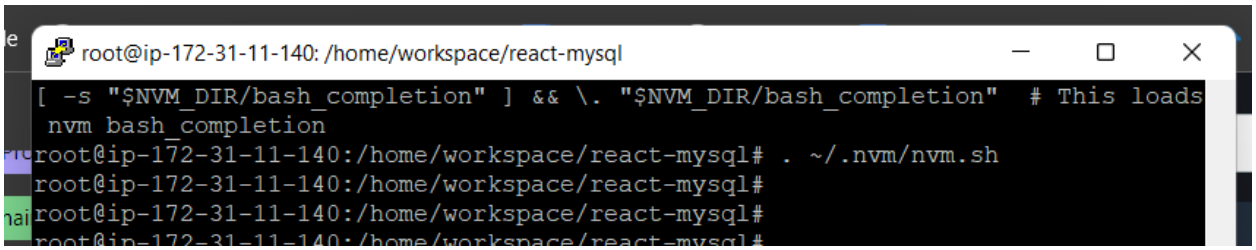
Creating Workspace Folder in home directory



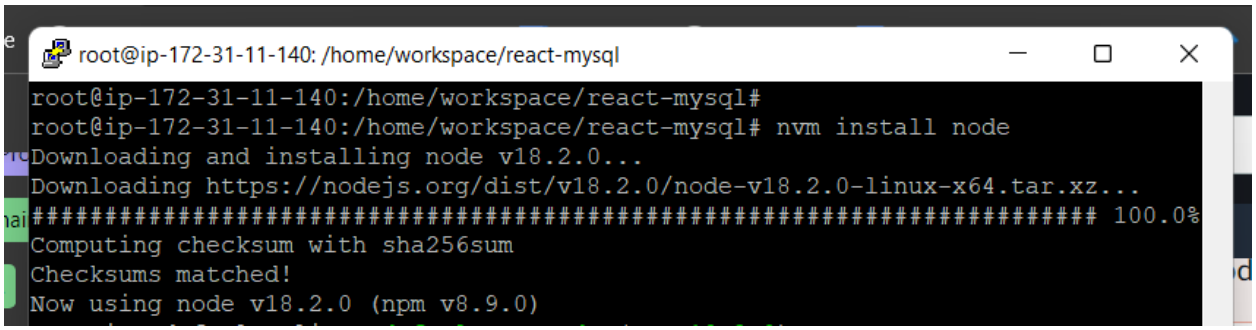
Install nvm



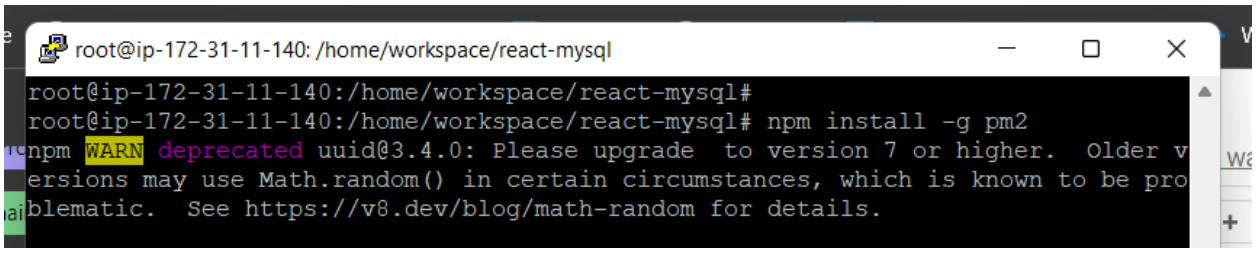
Activate nvm



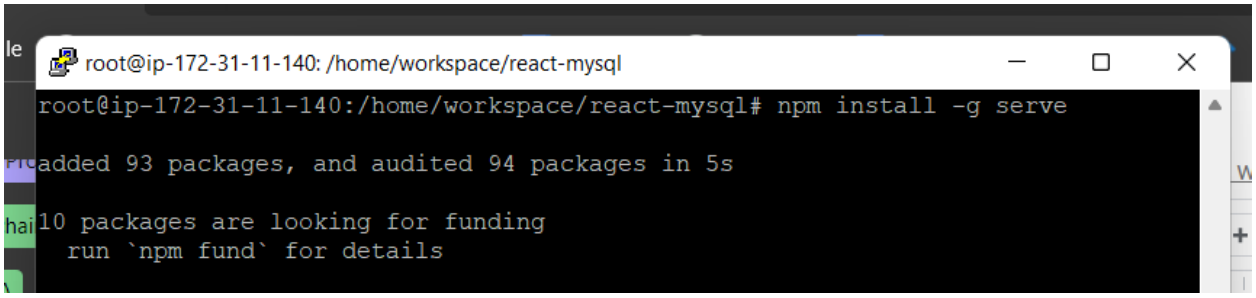
Install nodejs



Install PM2 Server

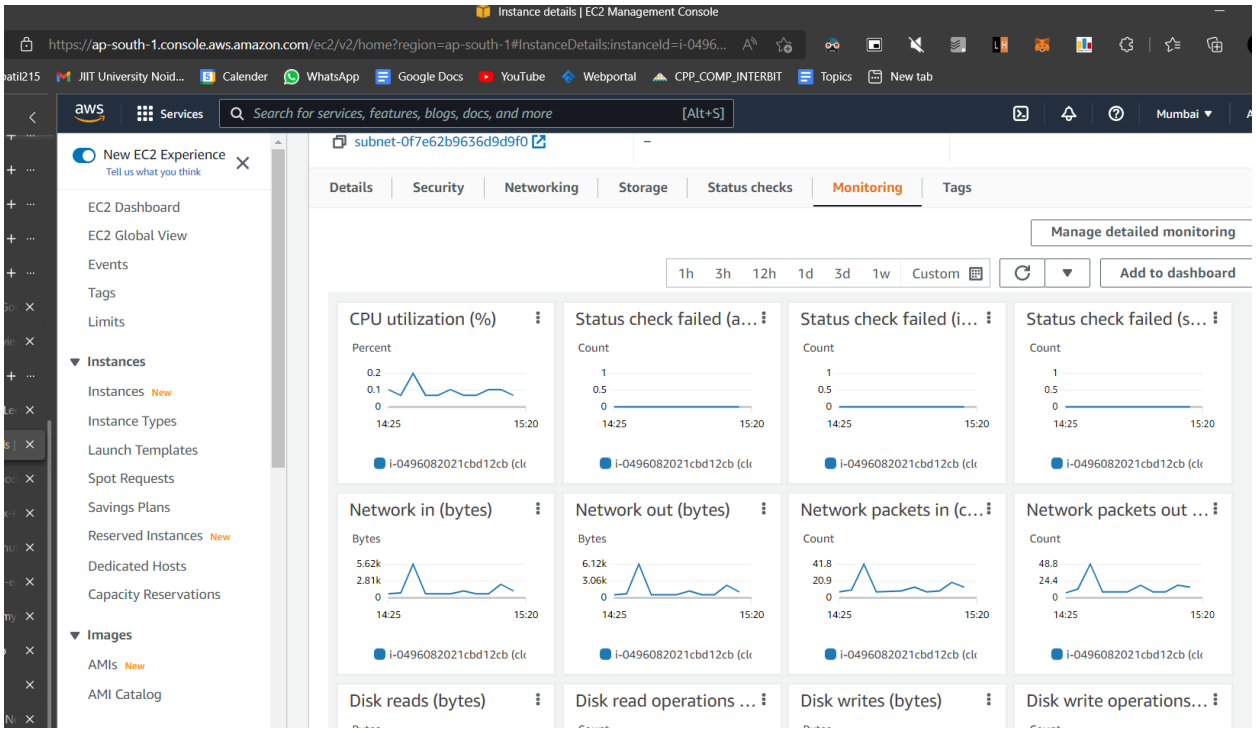


Install Serve



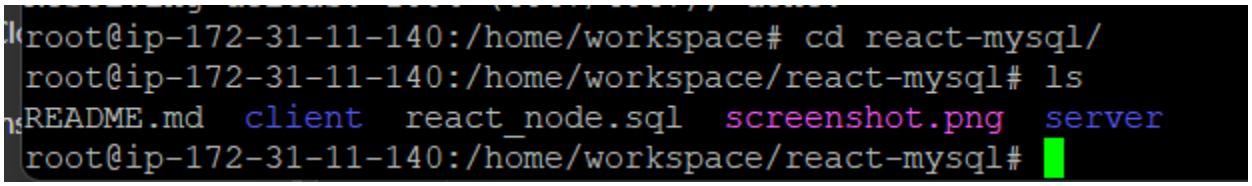
12 Steps of developed application execution

13 EC2 usage in the application (if used)

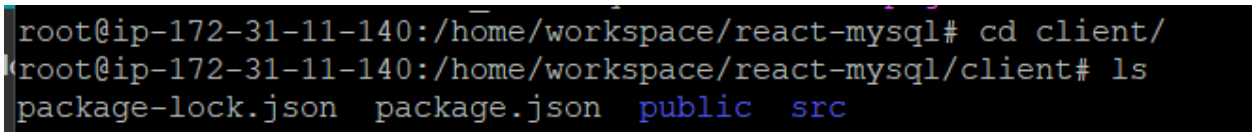


14 Code storage location (screenshots)

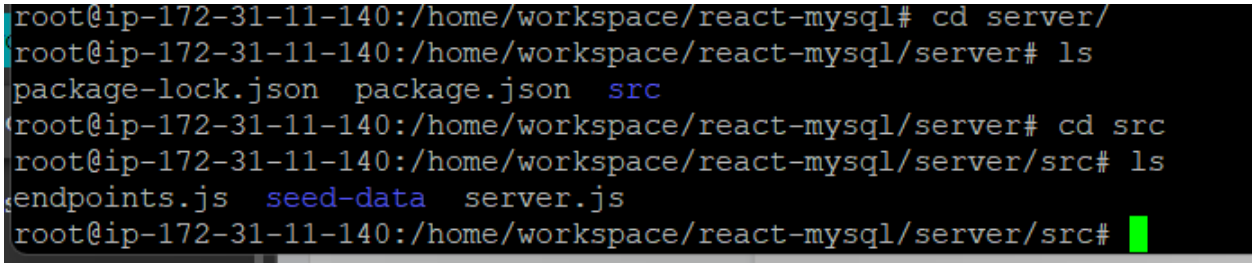
Workspace folder



Client Directory



Server Directory



15 References (along with Access Date for URL)

References