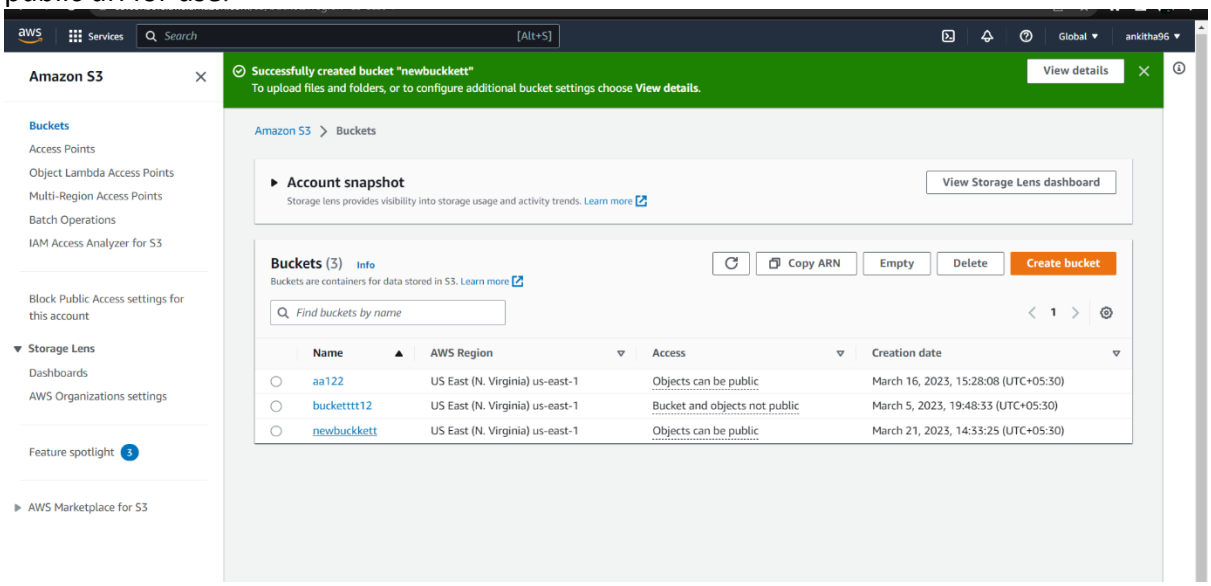
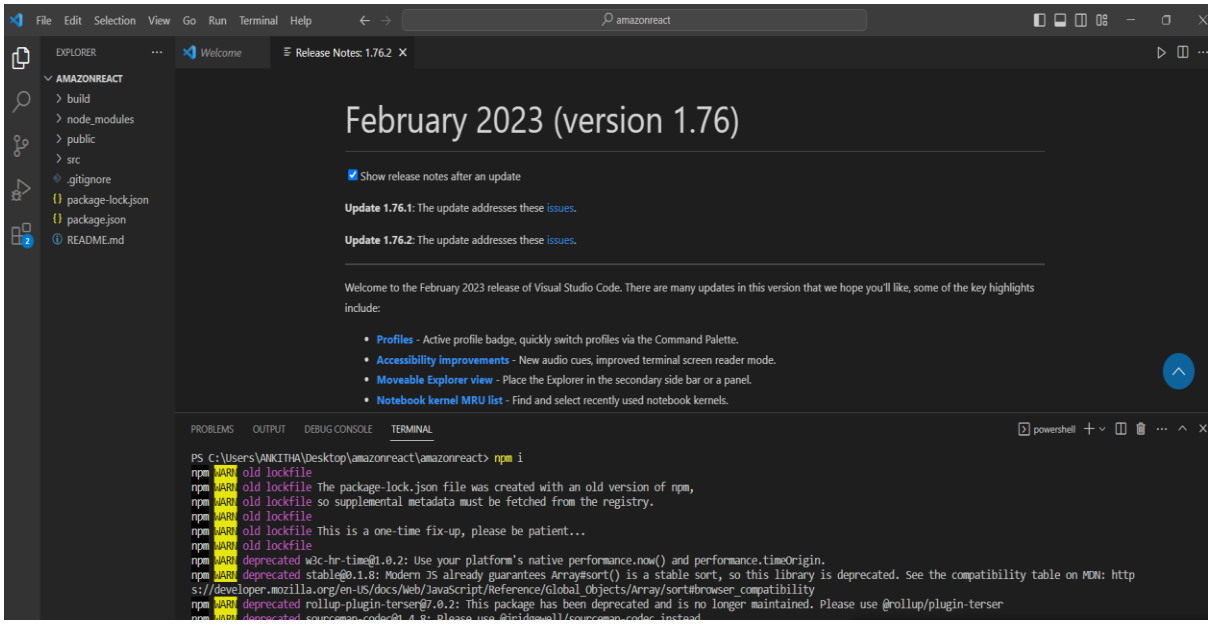
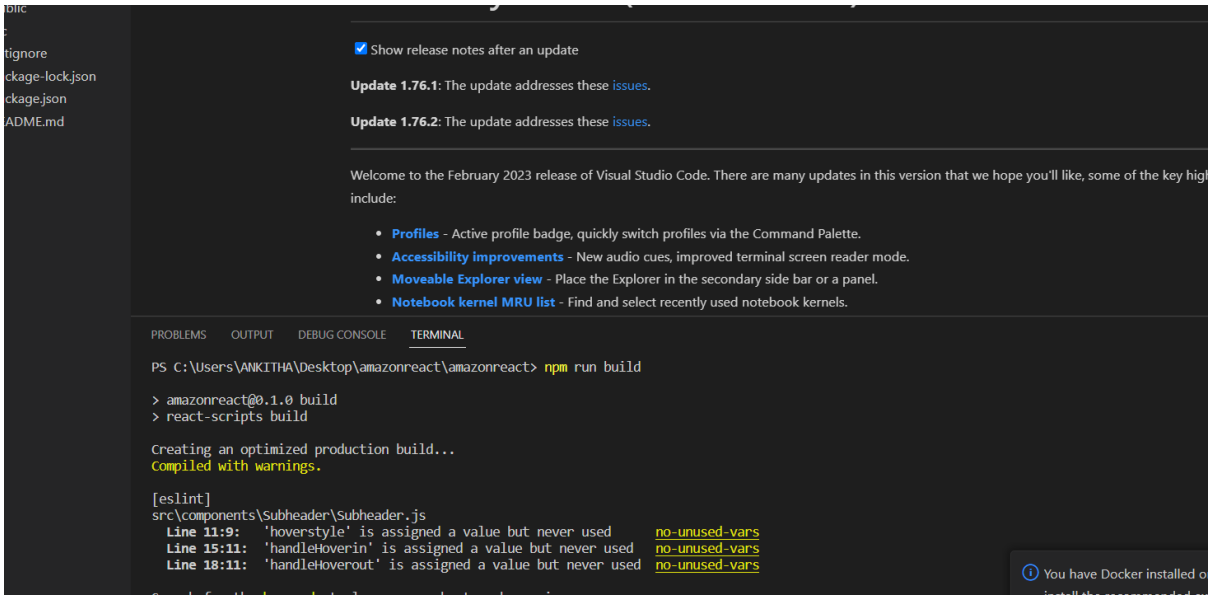
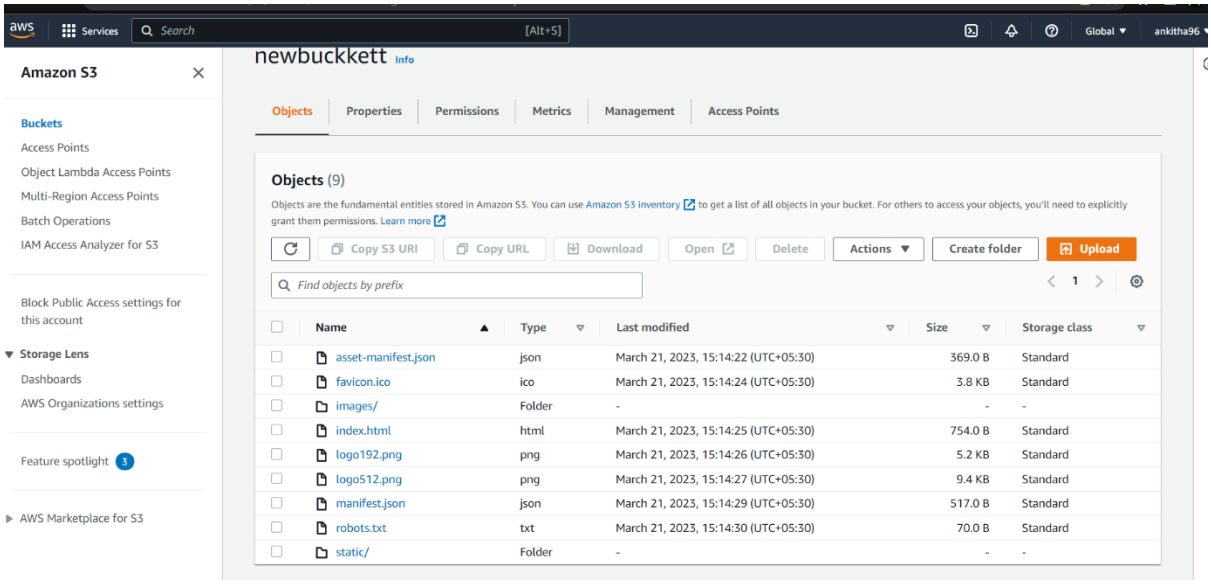
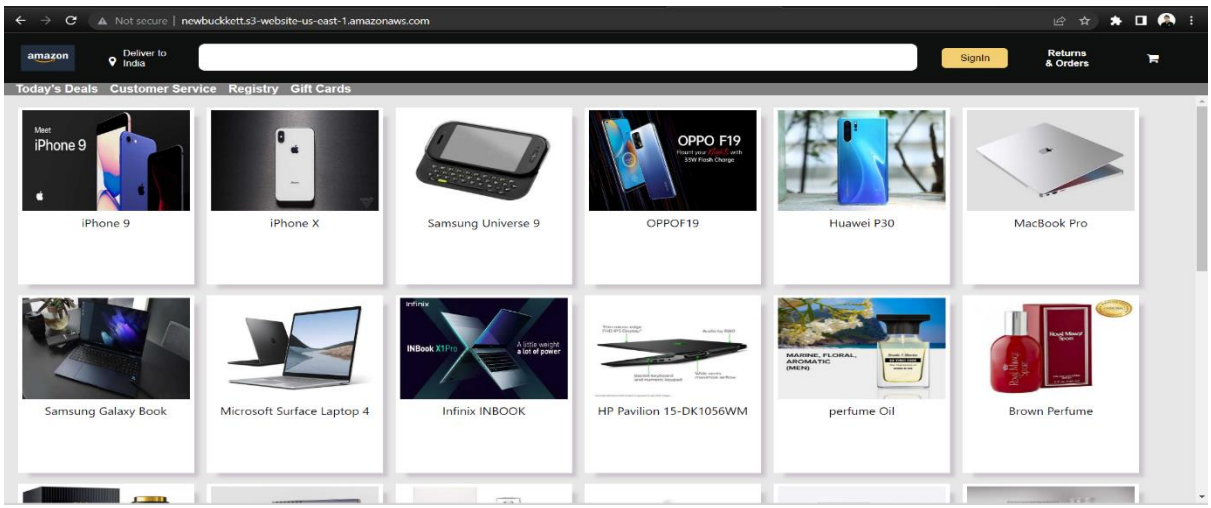
Q4. Create an S3 bucket and deploy the reactjs static application on it and provide with the public url for use.





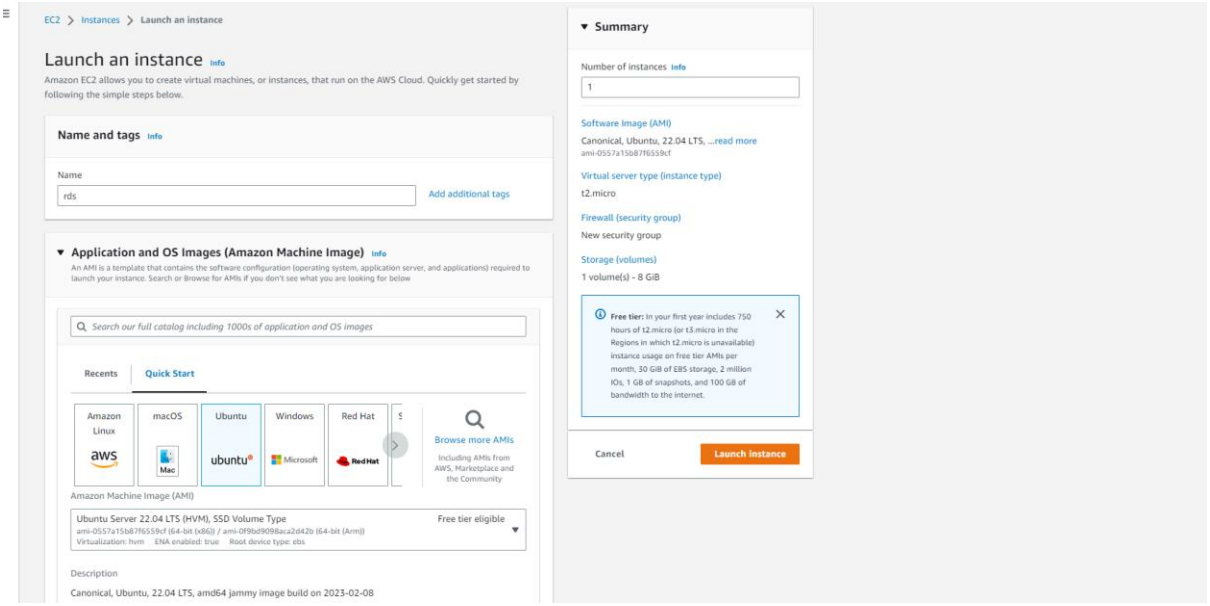


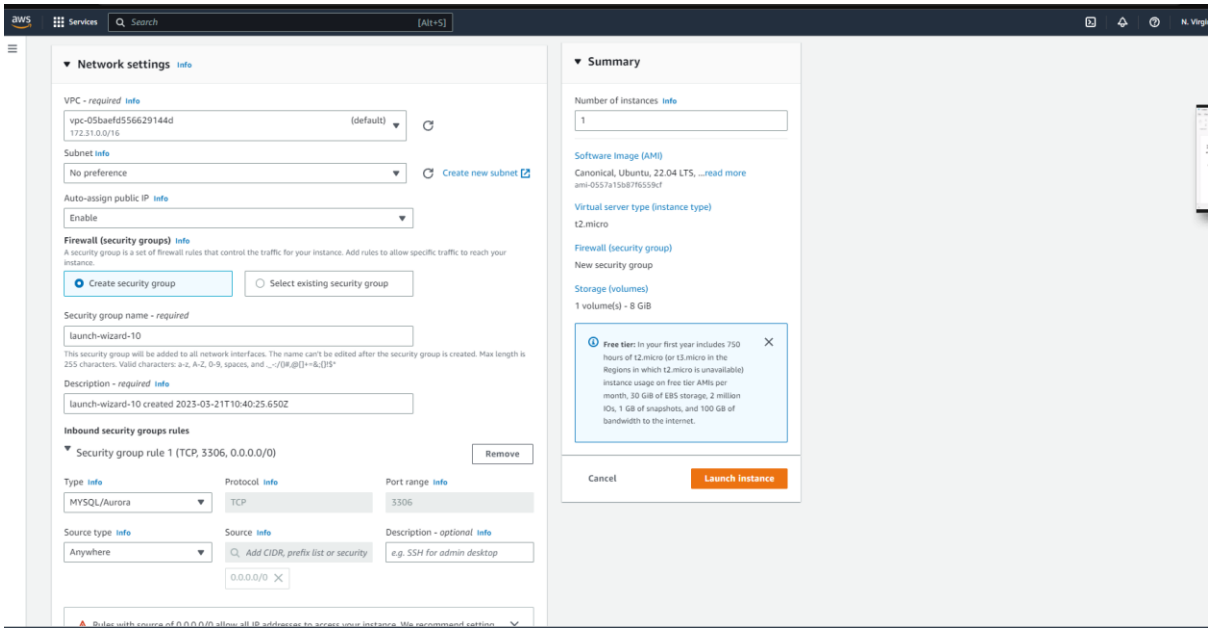


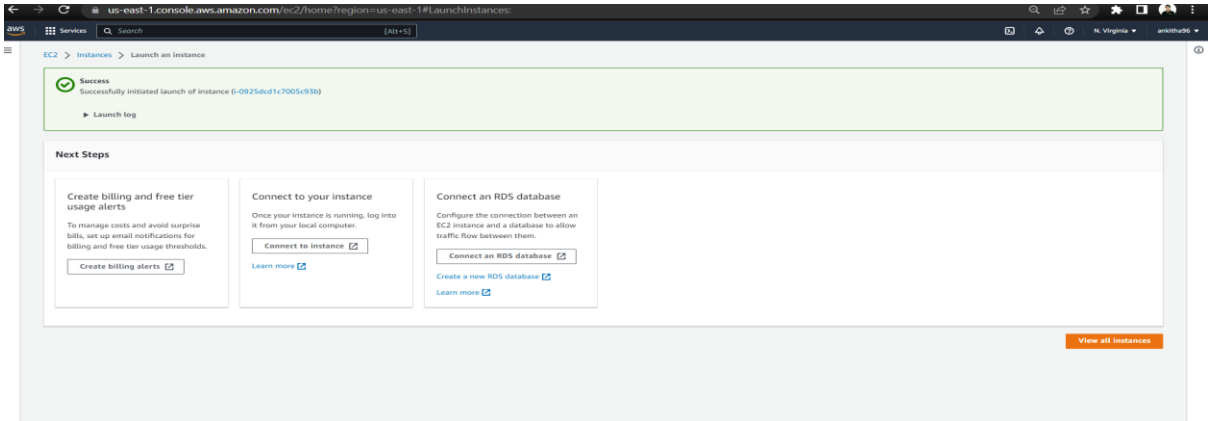


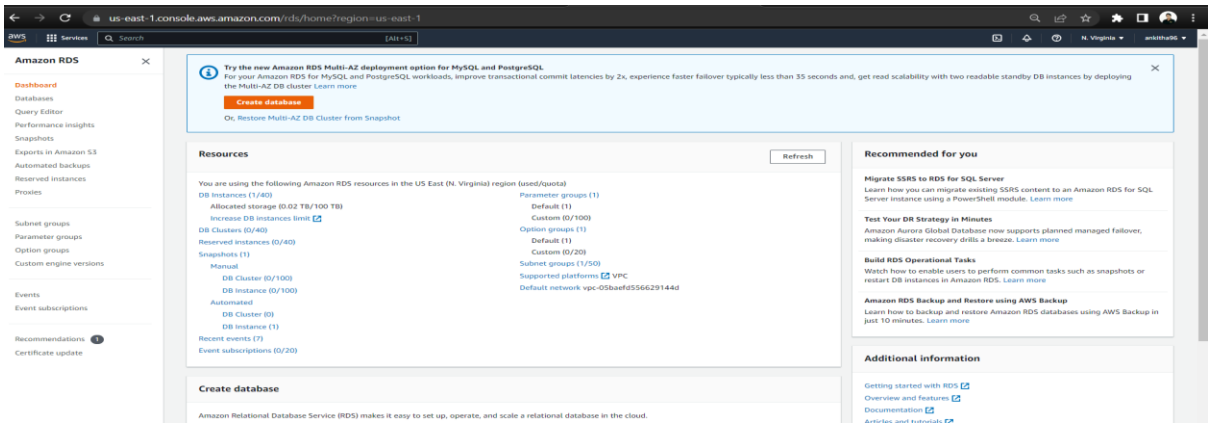
URL: http://newbuckkett.s3-website-us-east-1.amazonaws.com

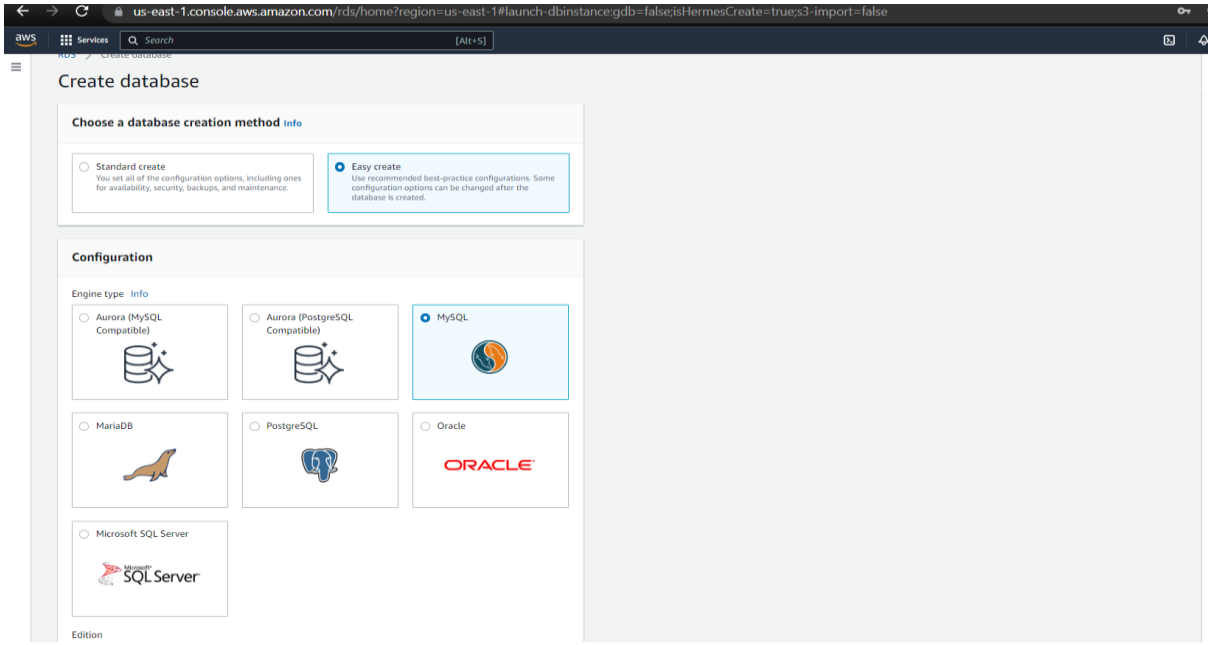
Q3. Create an rds connection with ec2 instance and use it to create an sql database and a sample table.

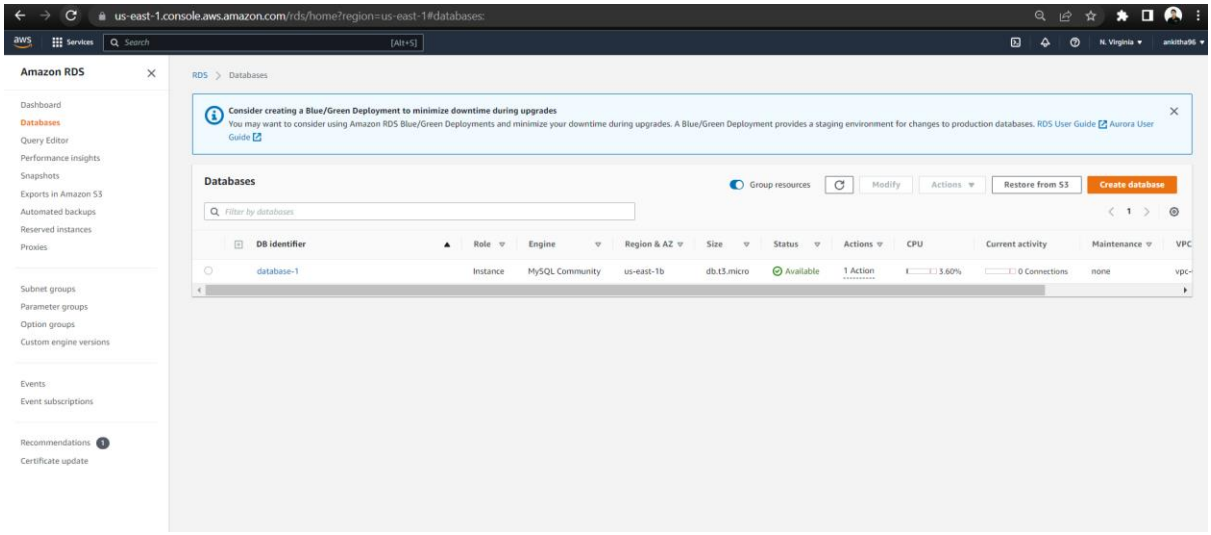


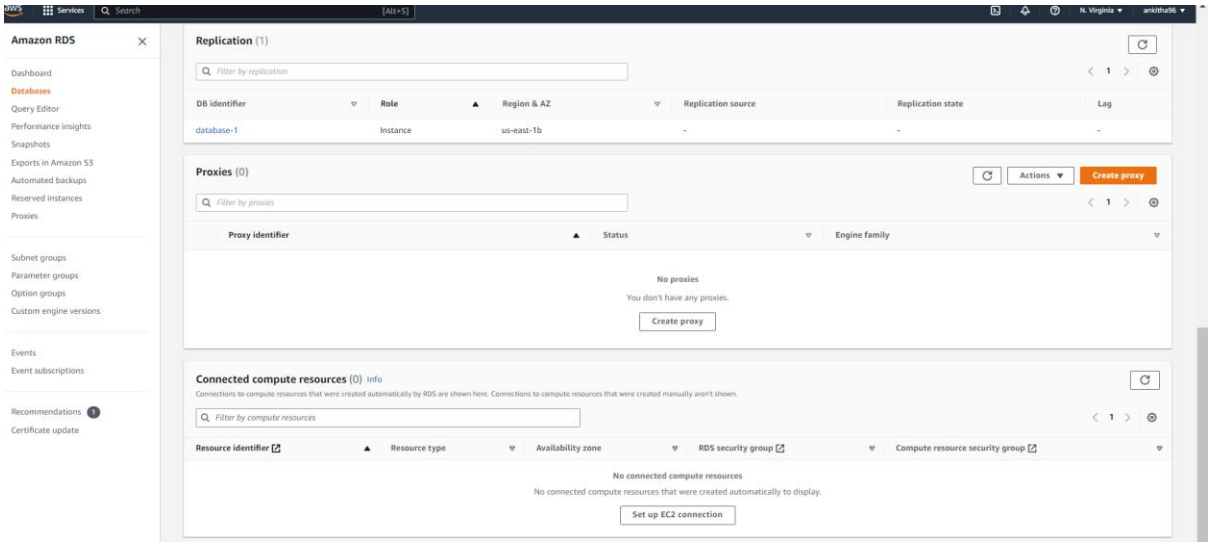


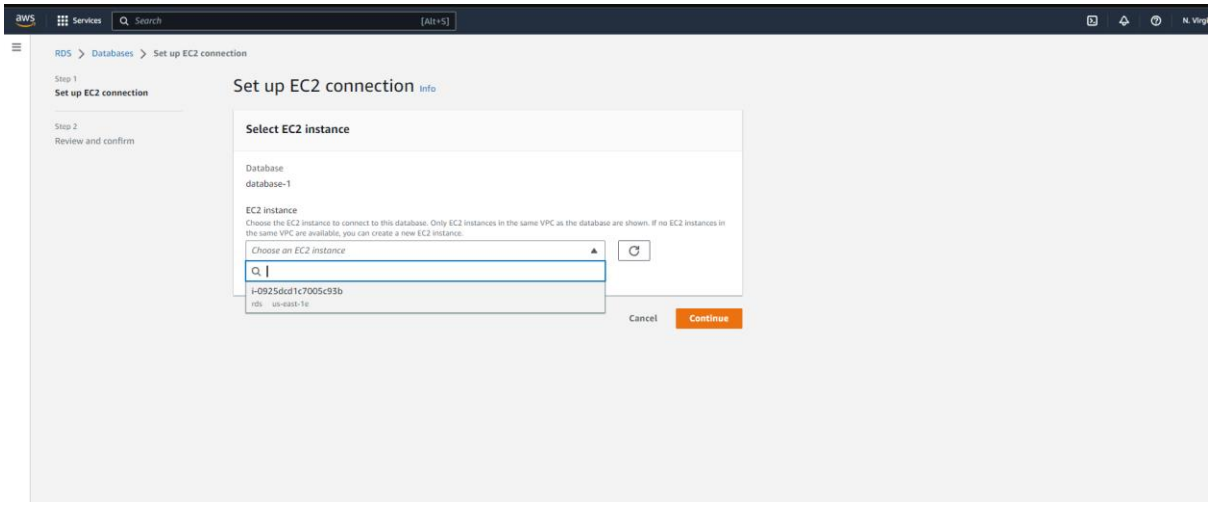


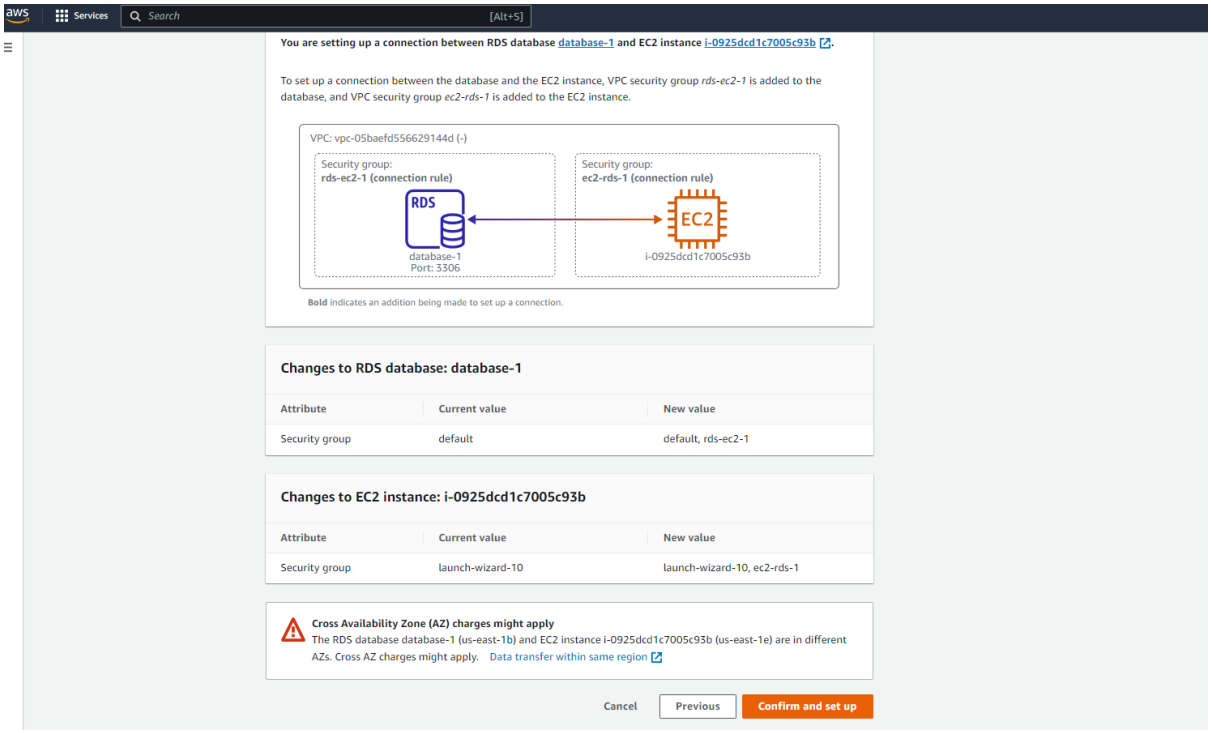

us-east-1.console.aws.amazon.com/rds/home?region=us-east-1
Amazon RDS
Dashboard
Databases
Query Editor
Performance insights
Snapshots
Exports in Amazon S3
Automated backups
Reserved instances
Proxies
Subnet groups
Parameter groups
Option groups
Custom engine versions
Events
Event subscriptions
Recommendations
Certificate update
Try the new Amazon RDS Multi-AZ deployment option for MySQL and PostgreSQL
Create database
Or, Restore Multi-AZ DB Cluster from Snapshot
Resources
Refresh
You are using the following Amazon RDS resources in the US East (N. Virginia) region (used/quota)
DB Instances (1/40)
Allocated storage (0.02 TB/100 TB)
Increase DB instances limit
DB Clusters (0/40)
Reserved instances (0/40)
Snapshots (1)
Manual
DB Cluster (0/100)
DB Instance (0/100)
Automated
DB Cluster (0)
DB Instance (1)
Recent events (7)
Event subscriptions (0/20)
Parameter groups (1)
Default (1)
Custom (0/100)
Option groups (1)
Default (1)
Custom (0/20)
Subnet groups (1/50)
Supported platforms VPC
Default network vpc-05baefd556629144d
Recommended for you
Migrate SSRS to RDS for SQL Server
Test Your DR Strategy in Minutes
Build RDS Operational Tasks
Amazon RDS Backup and Restore using AWS Backup
Additional information
Getting started with RDS
Overview and features
Documentation
Create database
Amazon Relational Database Service (RDS) makes it easy to set up, operate, and scale a relational database in the cloud.

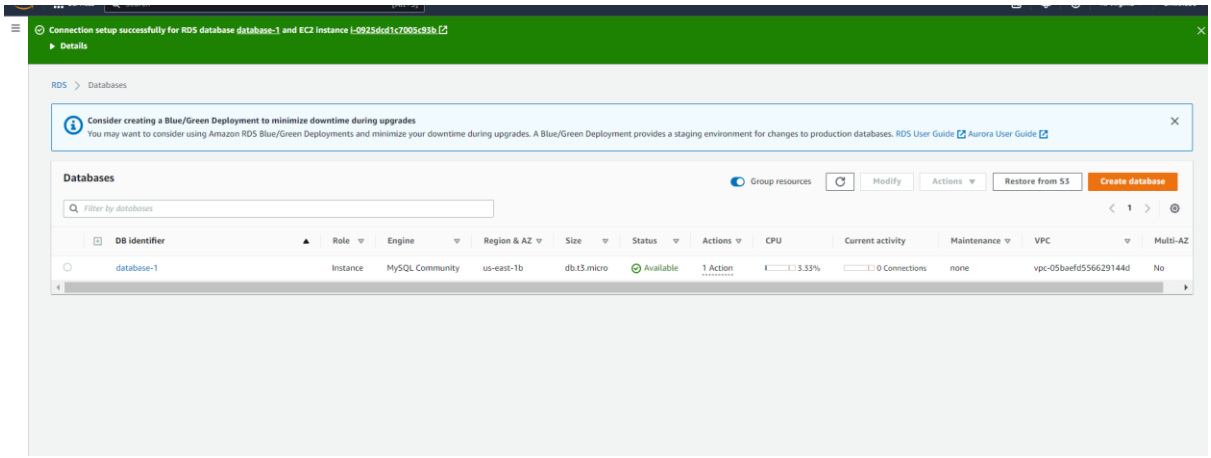

us-east-1.console.aws.amazon.com/rds/home?region=us-east-1#launch-dbinstance:gdb=false;isHermesCreate=true;s3-import=false
Create database
Choose a database creation method Info
Standard create
You set all of the configuration options, including ones for availability, security, backups, and maintenance.
Easy create
Use recommended best-practice configurations. Some configuration options can be changed after the database is created.
Configuration
Engine type Info
Aurora (MySQL Compatible)
Aurora (PostgreSQL Compatible)
MySQL
MariaDB
PostgreSQL
Oracle
Microsoft SQL Server
Edition

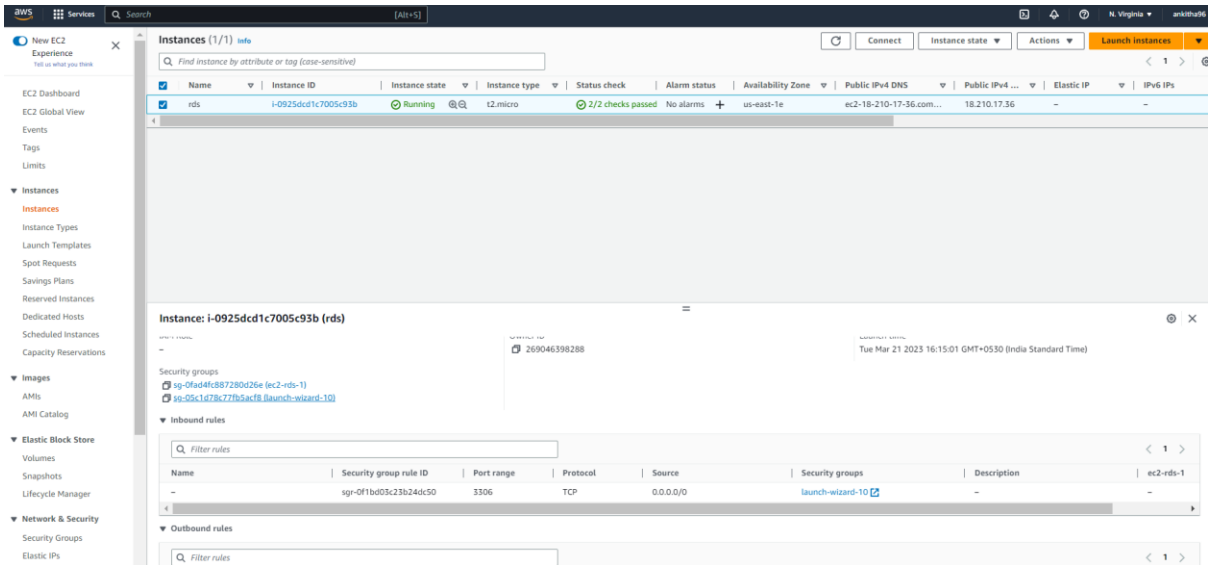

us-east-1.console.aws.amazon.com/rds/home?region=us-east-1#databases:
Amazon RDS
RDS > Databases
Consider creating a Blue/Green Deployment to minimize downtime during upgrades
Databases
Group resources
Modify
Actions
Restore from S3
Create database
Filter by databases
DB identifier
Role
Engine
Region & AZ
Size
Status
Actions
CPU
Current activity
Maintenance
database-1
Instance
MySQL Community
us-east-1b
db.t3.micro
Available
1 Action
3.60%
0 Connections
none

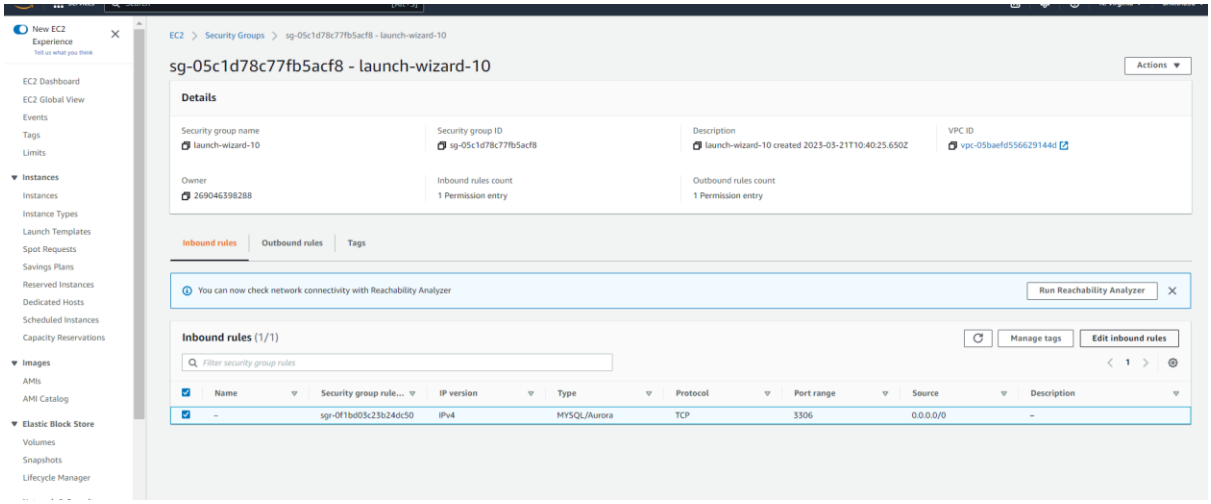

Amazon RDS
Dashboard
Databases
Query Editor
Performance insights
Snapshots
Exports in Amazon S3
Automated backups
Reserved instances
Proxies
Subnet groups
Parameter groups
Option groups
Custom engine versions
Events
Event subscriptions
Recommendations
Certificate update
Replication (1)
DB identifier
Role
Region & AZ
Replication source
Replication state
Lag
database-1
Instance
us-east-1b
Proxies (0)
Actions
Create proxy
Proxy identifier
Status
Engine family
No proxies
You don't have any proxies.
Create proxy
Connected compute resources (0) Info
Resource identifier
Resource type
Availability zone
RDS security group
Compute resource security group
No connected compute resources
No connected compute resources that were created automatically to display.
Set up EC2 connection

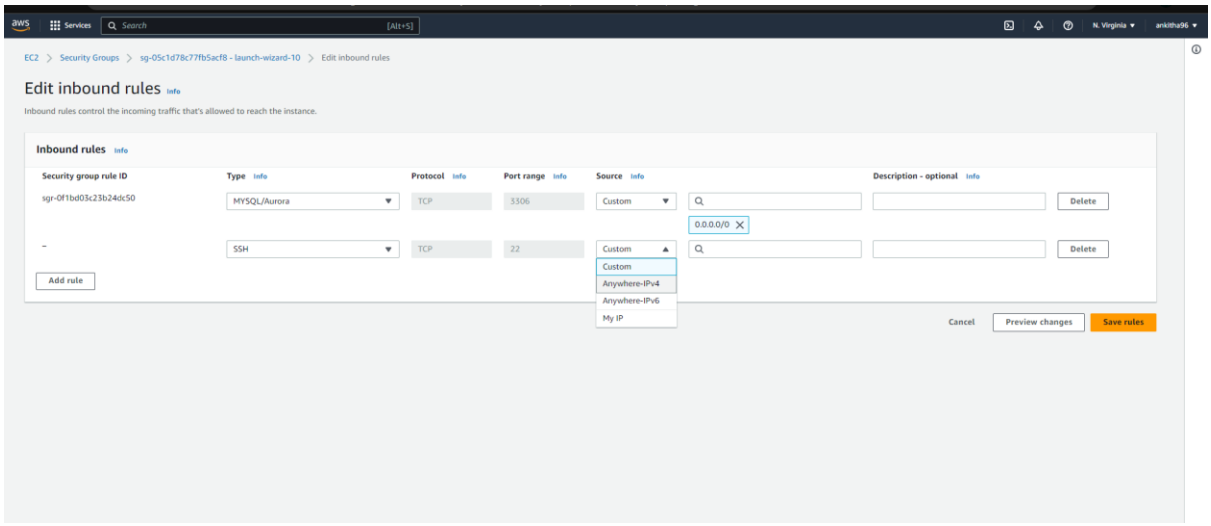

RDS > Databases > Set up EC2 connection
Step 1
Set up EC2 connection
Step 2
Review and confirm
Set up EC2 connection Info
Select EC2 instance
Database
database-1
EC2 instance
Choose an EC2 instance
i-0925dcd1c7005c93b
rds us-east-1e
Cancel
Continue

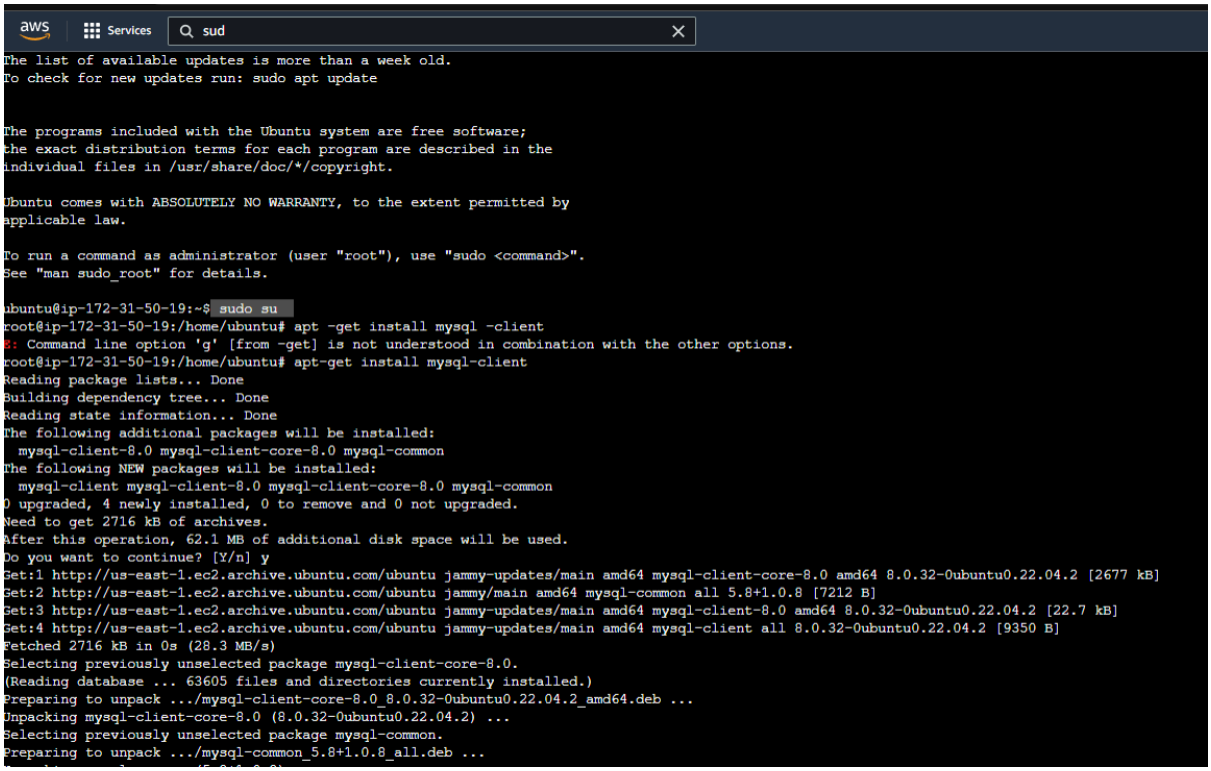

aws
Services
Search
[Alt+S]
You are setting up a connection between RDS database database-1 and EC2 instance i-0925dcd1c7005c93b.
To set up a connection between the database and the EC2 instance, VPC security group rds-ec2-1 is added to the database, and VPC security group ec2-rds-1 is added to the EC2 instance.
VPC: vpc-05baefd556629144d (-)
Security group:
rds-ec2-1 (connection rule)
RDS
database-1
Port: 3306
Security group:
ec2-rds-1 (connection rule)
EC2
i-0925dcd1c7005c93b
Bold indicates an addition being made to set up a connection.
Changes to RDS database: database-1
Attribute
Current value
New value
Security group
default
default, rds-ec2-1
Changes to EC2 instance: i-0925dcd1c7005c93b
Attribute
Current value
New value
Security group
launch-wizard-10
launch-wizard-10, ec2-rds-1
Cross Availability Zone (AZ) charges might apply
The RDS database database-1 (us-east-1b) and EC2 instance i-0925dcd1c7005c93b (us-east-1e) are in different AZs. Cross AZ charges might apply.
Data transfer within same region
Cancel
Previous
Confirm and set up


Connection setup successfully for RDS database database-1 and EC2 instance i-0925dcd1c7005c93b
Details
RDS
Databases
Consider creating a Blue/Green Deployment to minimize downtime during upgrades
You may want to consider using Amazon RDS Blue/Green Deployments and minimize your downtime during upgrades. A Blue/Green Deployment provides a staging environment for changes to production databases.
RDS User Guide
Aurora User Guide
Databases
Group resources
Modify
Actions
Restore from S3
Create database
Filter by databases
DB identifier
Role
Engine
Region & AZ
Size
Status
Actions
CPU
Current activity
Maintenance
VPC
Multi-AZ
database-1
Instance
MySQL Community
us-east-1b
db.t3.micro
Available
1 Action
3.33%
0 Connections
none
vpc-05baefd556629144d
No


aws
Services
Search
[Alt+S]
N. Virginia
ankitha96
New EC2 Experience
Tell us what you think
EC2 Dashboard
EC2 Global View
Events
Tags
Limits
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Scheduled Instances
Capacity Reservations
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
Snapshots
Lifecycle Manager
Network & Security
Security Groups
Elastic IPs
Instances (1/1) Info
Find instance by attribute or tag (case-sensitive)
Connect
Instance state
Actions
Launch instances
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
Public IPv4 DNS
Public IPv4 ...
Elastic IP
IPv6 IPs
rds
i-0925dcd1c7005c93b
Running
t2.micro
2/2 checks passed
No alarms
us-east-1e
ec2-18-210-17-36.com...
18.210.17.36
Instance: i-0925dcd1c7005c93b (rds)
269046398288
Tue Mar 21 2023 16:15:01 GMT+0530 (India Standard Time)
Security groups
sg-0fad4fc887280d26e (ec2-rds-1)
sg-05c1d78c77fb5acf8 (launch-wizard-10)
Inbound rules
Filter rules
Name
Security group rule ID
Port range
Protocol
Source
Security groups
Description
ec2-rds-1
sgr-0f1bd03c23b24dc50
3306
TCP
0.0.0.0/0
launch-wizard-10
Outbound rules
Filter rules


New EC2 Experience
EC2 Dashboard
EC2 Global View
Events
Tags
Limits
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Scheduled Instances
Capacity Reservations
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
Snapshots
Lifecycle Manager
EC2 > Security Groups > sg-05c1d78c77fb5acf8 - launch-wizard-10
sg-05c1d78c77fb5acf8 - launch-wizard-10
Actions
Details
Security group name
launch-wizard-10
Security group ID
sg-05c1d78c77fb5acf8
Description
launch-wizard-10 created 2023-03-21T10:40:25.650Z
VPC ID
vpc-05baefd556629144d
Owner
269046398288
Inbound rules count
1 Permission entry
Outbound rules count
1 Permission entry
Inbound rules
Outbound rules
Tags
You can now check network connectivity with Reachability Analyzer
Run Reachability Analyzer
Inbound rules (1/1)
Manage tags
Edit inbound rules
Filter security group rules
Name
Security group rule...
IP version
Type
Protocol
Port range
Source
Description
-
sgr-0f1bd03c23b24dc50
IPv4
MYSQL/Aurora
TCP
3306
0.0.0.0/0
-


aws
Services
Search
[Alt+S]
N. Virginia
ankitha96
EC2 > Security Groups > sg-05c1d78c77fb5acf8 - launch-wizard-10 > Edit inbound rules
Edit inbound rules
Info
Inbound rules control the incoming traffic that's allowed to reach the instance.
Inbound rules
Info
Security group rule ID
Type
Protocol
Port range
Source
Description - optional
sgr-0f1bd03c23b24dc50
MYSQL/Aurora
TCP
3306
Custom
0.0.0.0/0
Delete
-
SSH
TCP
22
Custom
Custom
Anywhere-IPv4
Anywhere-IPv6
My IP
Delete
Add rule
Cancel
Preview changes
Save rules


aws
Services
sud
The list of available updates is more than a week old.
To check for new updates run: sudo apt update
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.
ubuntu@ip-172-31-50-19:~$ sudo su
root@ip-172-31-50-19:/home/ubuntu# apt -get install mysql -client
E: Command line option 'g' [from -get] is not understood in combination with the other options.
root@ip-172-31-50-19:/home/ubuntu# apt-get install mysql-client
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
mysql-client-8.0 mysql-client-core-8.0 mysql-common
The following NEW packages will be installed:
mysql-client mysql-client-8.0 mysql-client-core-8.0 mysql-common
0 upgraded, 4 newly installed, 0 to remove and 0 not upgraded.
Need to get 2716 kB of archives.
After this operation, 62.1 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 mysql-client-core-8.0 amd64 8.0.32-0ubuntu0.22.04.2 [2677 kB]
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 mysql-common all 5.8+1.0.8 [7212 B]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 mysql-client-8.0 amd64 8.0.32-0ubuntu0.22.04.2 [22.7 kB]
Get:4 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 mysql-client all 8.0.32-0ubuntu0.22.04.2 [9350 B]
Fetched 2716 kB in 0s (28.3 MB/s)
Selecting previously unselected package mysql-client-core-8.0.
(Reading database ... 63605 files and directories currently installed.)
Preparing to unpack .../mysql-client-core-8.0_8.0.32-0ubuntu0.22.04.2_amd64.deb ...
Unpacking mysql-client-core-8.0 (8.0.32-0ubuntu0.22.04.2) ...
Selecting previously unselected package mysql-common.
Preparing to unpack .../mysql-common_5.8+1.0.8_all.deb ...

```
The list of available updates is more than a week old.
To check for new updates run: sudo apt update


The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@ip-172-31-50-19:~$ sudo su
root@ip-172-31-50-19:/home/ubuntu# apt -get install mysql -client
E: Command line option 'g' [from -get] is not understood in combination with the other options.
root@ip-172-31-50-19:/home/ubuntu# apt-get install mysql-client
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  mysql-client-8.0 mysql-client-core-8.0 mysql-common
The following NEW packages will be installed:
  mysql-client mysql-client-8.0 mysql-client-core-8.0 mysql-common
0 upgraded, 4 newly installed, 0 to remove and 0 not upgraded.
Need to get 2716 kB of archives.
After this operation, 62.1 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 mysql-client-core-8.0 amd64 8.
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 mysql-common all 5.8+1.0.8 [7212 B]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 mysql-client-8.0 amd64 8.0.32-
Get:4 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 mysql-client all 8.0.32-0ubunt
```

```
Preparing to unpack .../mysql-client_8.0.32-0ubuntu0.22.04.2_all.deb ...
Unpacking mysql-client (8.0.32-0ubuntu0.22.04.2) ...
Setting up mysql-common (5.8+1.0.8) ...
update-alternatives: using /etc/mysql/my.cnf.fallback to provide /etc/mysql/my.cnf (my.cnf) in auto mode
Setting up mysql-client-core-8.0 (8.0.32-0ubuntu0.22.04.2) ...
Setting up mysql-client-8.0 (8.0.32-0ubuntu0.22.04.2) ...
Setting up mysql-client (8.0.32-0ubuntu0.22.04.2) ...
Processing triggers for man-db (2.10.2-1) ...
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
root@ip-172-31-50-19:/home/ubuntu# mysql --version
mysql  Ver 8.0.32-0ubuntu0.22.04.2 for Linux on x86_64 ((Ubuntu))
root@ip-172-31-50-19:/home/ubuntu# mysql -h database-1.cgnhnnypdmqe.us-east-1.rds.amazonaws.com -P 3306 -u admin -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 29
Server version: 8.0.28 Source distribution

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Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> CREATE DATABASE dbs;
```

```
No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
root@ip-172-31-50-19:/home/ubuntu# mysql --version
mysql  Ver 8.0.32-0ubuntu0.22.04.2 for Linux on x86_64 ((Ubuntu))
root@ip-172-31-50-19:/home/ubuntu# mysql -h database-1.cgnhnnypdmqe.us-east-1.rds.amazonaws.com -P 3306 -u admin -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 29
Server version: 8.0.28 Source distribution

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> CREATE DATABASE dbs;
Query OK, 1 row affected (0.01 sec)

mysql> USE dbs;
Database changed
mysql> CREATE TABLE t1 (id INT NOT NULL AUTO_INCREMENT,name VARCHAR(50) NOT NULL,PRIMARY KEY(id));
Query OK, 0 rows affected (0.03 sec)
```
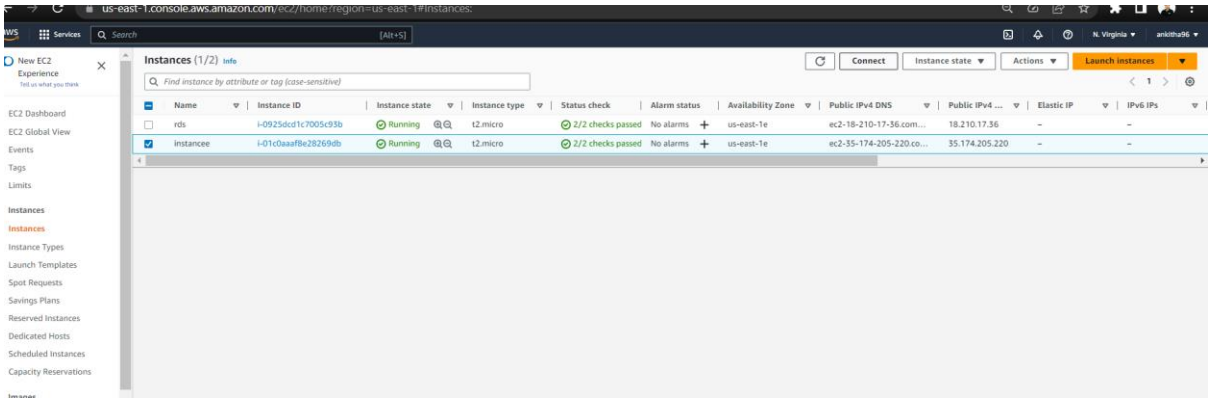

```
mysql> CREATE DATABASE dbs;
Query OK, 1 row affected (0.01 sec)

mysql> USE dbs;
Database changed
mysql> CREATE TABLE t1 (id INT NOT NULL AUTO_INCREMENT,name VARCHAR(50) NOT NULL,PRIMARY KEY(id));
Query OK, 0 rows affected (0.03 sec)

mysql> INTO t1 (name) VALUES ('ankitha')
    -> select * from t1;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'INTO t1 (name) VALUES ('ankitha')
select * from t1' at line 1
mysql> insert into t1 (name) values ('ankitha'),('mounika'),('deepika'),('bhavana'),('indhu');
Query OK, 5 rows affected (0.01 sec)
Records: 5  Duplicates: 0  Warnings: 0

mysql> select * from t1;
+----+---------+
| id | name    |
+----+---------+
|  1 | ankitha |
|  2 | mounika |
|  3 | deepika |
|  4 | bhavana |
|  5 | indhu   |
+----+---------+
5 rows in set (0.00 sec)

mysql>
```

i-0925dcd1c7005c93b (rds)

PublicIPs: 18.210.17.36 PrivateIPs: 172.31.50.19

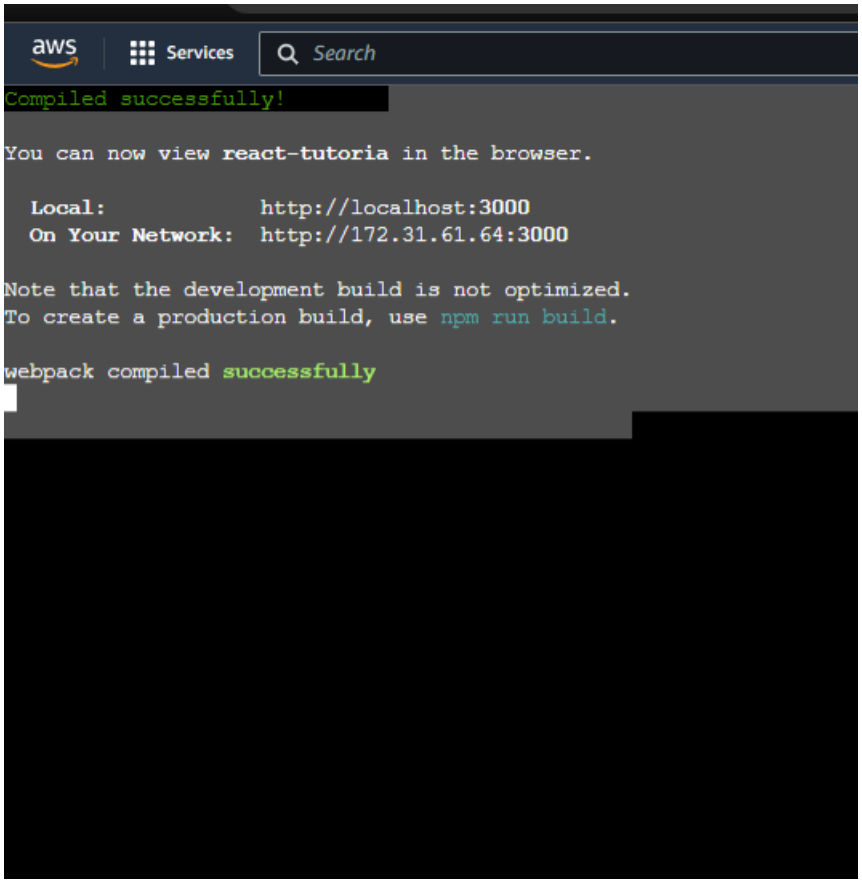
Q2. Create an EC2 intance for a Reactjs application and deploy the application and provide the public ip for it, also enable the cloud monitoring on these instances.

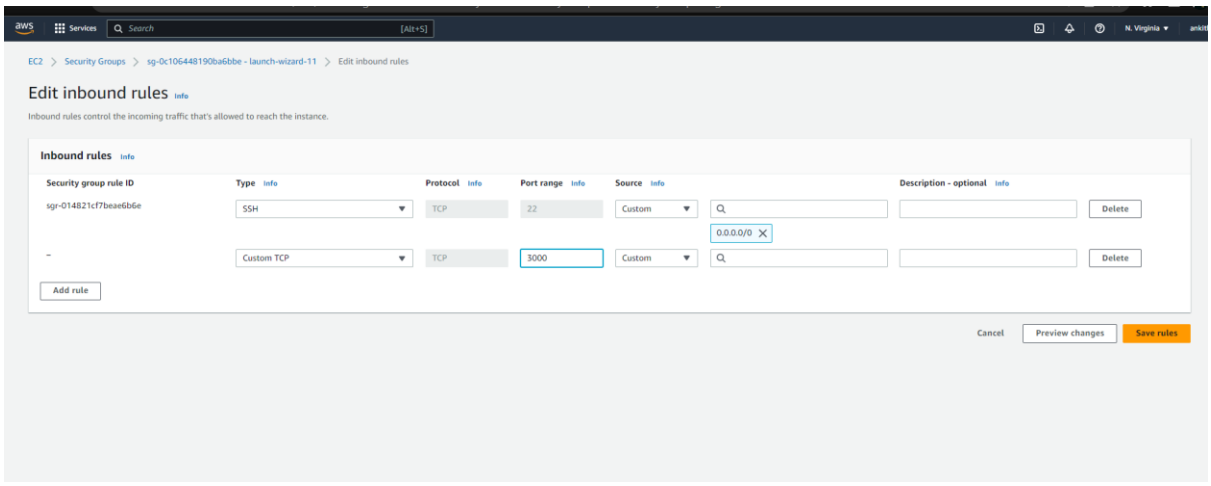


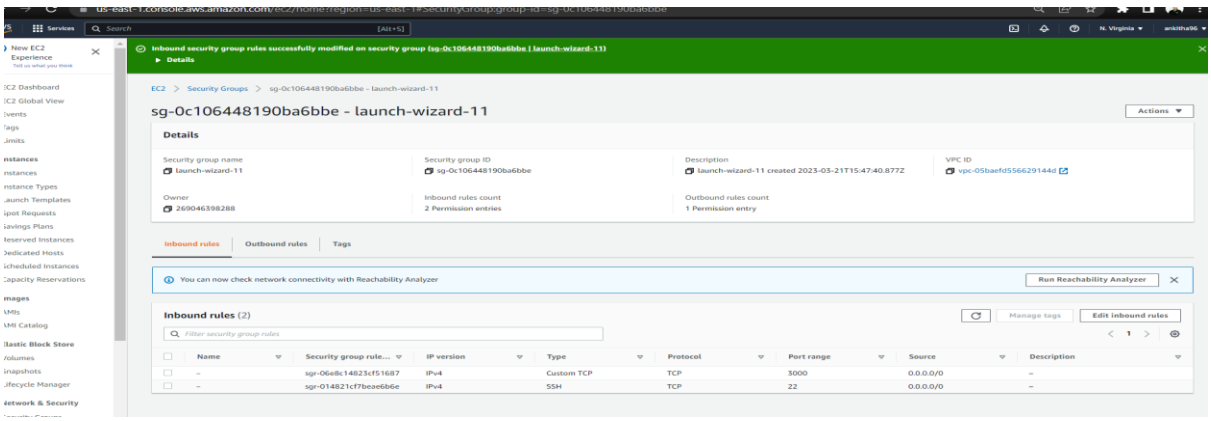

```
  System load:  0.3125            Processes:             101
  Usage of /:   19.8% of 7.57GB   Users logged in:       0
  Memory usage: 19%               IPv4 address for eth0: 172.31.61.64
  Swap usage:   0%

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status


The list of available updates is more than a week old.
To check for new updates run: sudo apt update


The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@ip-172-31-61-64:~$ sudo apt-get update
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease [107 kB]
Get:4 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Get:5 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 Packages [14.1 MB]
Get:6 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe Translation-en [5652 kB]
Get:7 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 c-n-f Metadata [286 kB]
Get:8 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse amd64 Packages [217 kB]
Get:9 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse Translation-en [112 kB]
Get:10 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse amd64 c-n-f Metadata [8372 B]
Get:11 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [948 kB]
Get:12 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main Translation-en [205 kB]
Get:13 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 c-n-f Metadata [13.8 kB]
Get:14 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 Packages [684 kB]
```

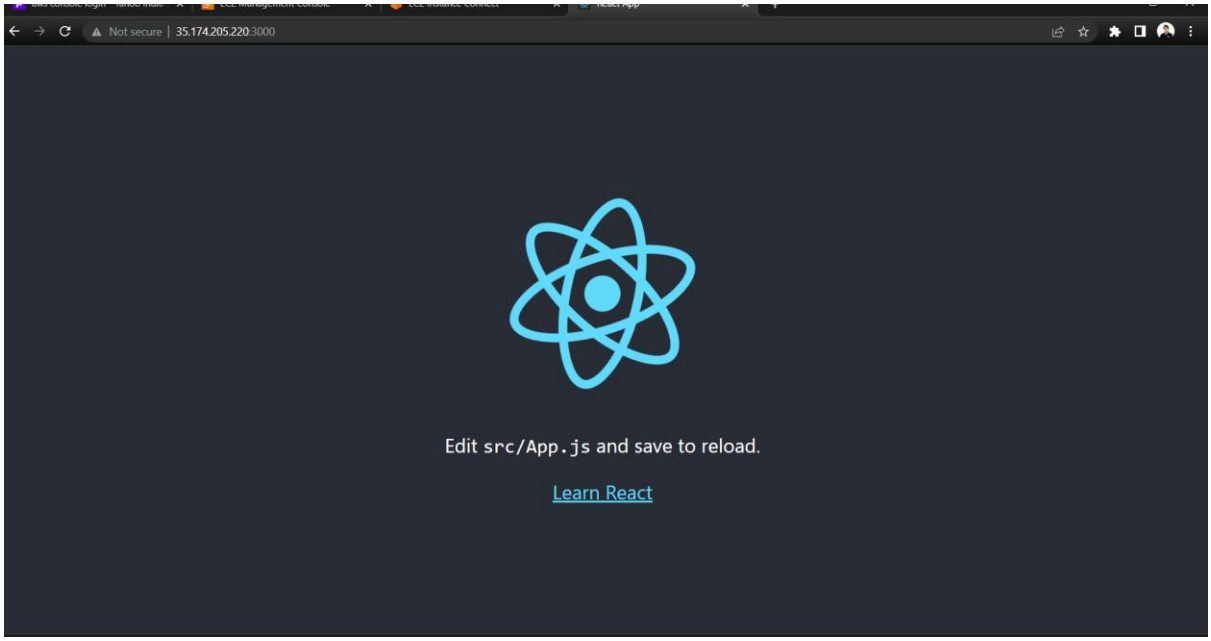
```
Get:18 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe Translation-en [179 kB]
Get:19 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 c-n-f Metadata [18.4 kB]
Get:20 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 Packages [24.1 kB]
Get:21 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse Translation-en [6312 B]
Get:22 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 c-n-f Metadata [444 B]
Get:23 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 Packages [40.7 kB]
Get:24 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main Translation-en [9800 B]
Get:25 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 c-n-f Metadata [392 B]
Get:26 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/restricted amd64 c-n-f Metadata [116 B]
Get:27 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 Packages [19.5 kB]
Get:28 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe Translation-en [14.0 kB]
Get:29 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 c-n-f Metadata [392 B]
Get:30 http://security.ubuntu.com/ubuntu jammy-security/main amd64 Packages [692 kB]
Get:31 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/multiverse amd64 c-n-f Metadata [116 B]
Get:32 http://security.ubuntu.com/ubuntu jammy-security/main Translation-en [142 kB]
Get:33 http://security.ubuntu.com/ubuntu jammy-security/main amd64 c-n-f Metadata [9016 B]
Get:34 http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 Packages [642 kB]
Get:35 http://security.ubuntu.com/ubuntu jammy-security/restricted Translation-en [100 kB]
Get:36 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 Packages [713 kB]
Get:37 http://security.ubuntu.com/ubuntu jammy-security/universe Translation-en [118 kB]
Get:38 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 c-n-f Metadata [14.1 kB]
Get:39 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 Packages [19.4 kB]
Get:40 http://security.ubuntu.com/ubuntu jammy-security/multiverse Translation-en [4068 B]
Get:41 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 c-n-f Metadata [240 B]
Fetched 26.3 MB in 5s (5664 kB/s)
Reading package lists... Done
ubuntu@ip-172-31-61-64:~$ sudo apt-get upgrade
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Calculating upgrade... Done
The following packages have been kept back:
  grub-efi-amd64-bin grub-efi-amd64-signed linux-aws linux-headers-aws linux-image-aws
The following packages will be upgraded:
  apparmor base-files curl fwupd-signed git git-man intel-microcode isc-dhcp-client isc-dhcp-common less libapparmor1 libc
  libnss-systemd libnss3 libpam-systemd libpython3.10 libpython3.10-minimal libpython3.10-stdlib libqmi-glib5 libqmi-proxy
  python-apt-common python3-apt python3-distupgrade python3-software-properties python3.10 python3.10-minimal rsync shim-s
  ubuntu-release-upgrader-core udev vim vim-common vim-runtime vim-tiny xxd
58 upgraded, 0 newly installed, 0 to remove and 5 not upgraded.
Need to get 42.7 MB of archives.
After this operation, 7940 kB of additional disk space will be used.
Do you want to continue? [Y/n]
```

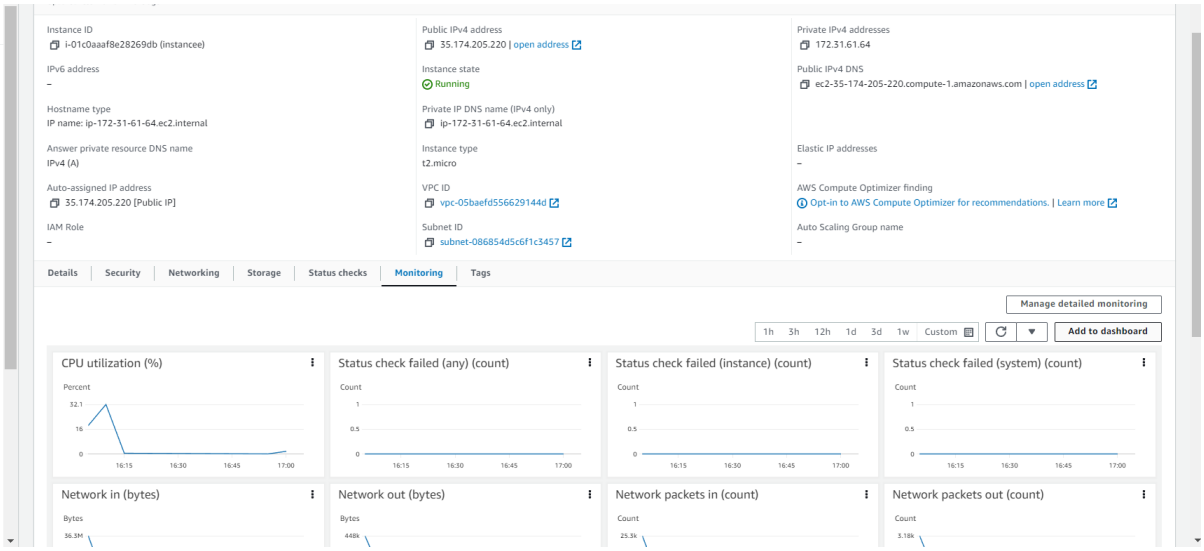
```
update-initramfs: Generating /boot/initrd.img-5.15.0-1028-aws
Processing triggers for libc-bin (2.35-0ubuntu3.1) ...
Processing triggers for man-db (2.10.2-1) ...
Scanning processes...
Scanning candidates...
Scanning linux images...

Running kernel seems to be up-to-date.

Restarting services...
 systemctl restart chrony.service multipathd.service packagekit.service polkit.service rsyslog.service ssh.service
Service restarts being deferred:
 /etc/needrestart/restart.d/dbus.service
 systemctl restart networkd-dispatcher.service
 systemctl restart systemd-logind.service
 systemctl restart unattended-upgrades.service
 systemctl restart user@1000.service

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-61-64:~$ sudo apt-get install nginx -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  fontconfig-config fonts-dejavu-core libdeflate0 libfontconfig1 libgd3 libjbig0 libjpeg-turbo8 libjpeg8 libnginx-mod-http-geoip2 libng
  libnginx-mod-stream-geoip2 libtiff5 libwebp7 libxpm4 nginx-common nginx-core
Suggested packages:
  libgd-tools fcgiwrap nginx-doc ssl-cert
The following NEW packages will be installed:
  fontconfig-config fonts-dejavu-core libdeflate0 libfontconfig1 libgd3 libjbig0 libjpeg-turbo8 libjpeg8 libnginx-mod-http-geoip2 libng
  libnginx-mod-stream-geoip2 libtiff5 libwebp7 libxpm4 nginx nginx-common nginx-core
0 upgraded, 20 newly installed, 0 to remove and 5 not upgraded.
Need to get 2689 kB of archives.
After this operation, 8335 kB of additional disk space will be used.
Get:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 fonts-dejavu-core all 2.37-2build1 [1041 kB]
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 fontconfig-config all 2.13.1-4.2ubuntu5 [29.1 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 libdeflate0 amd64 1.10-2 [70.9 kB]
```

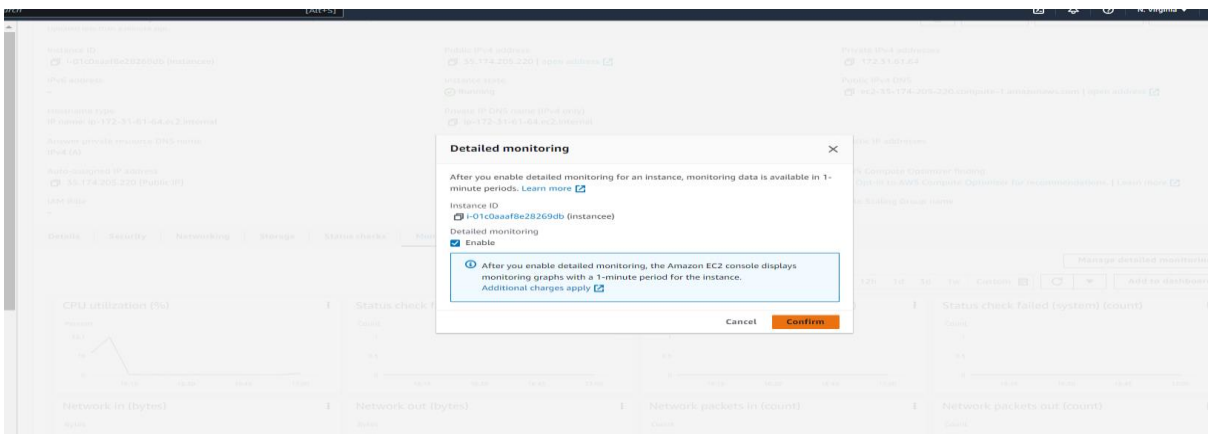

aws
Services
Search
Compiled successfully!
You can now view react-tutoria in the browser.
Local: http://localhost:3000
On Your Network: http://172.31.61.64:3000
Note that the development build is not optimized.
To create a production build, use npm run build.
webpack compiled successfully

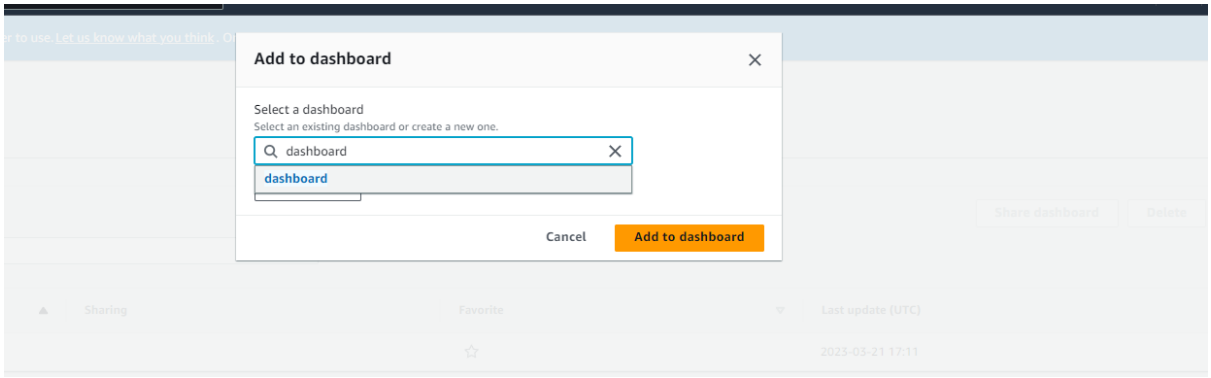

EC2 > Security Groups > sg-0c106448190ba6bbe - launch-wizard-11 > Edit inbound rules
Edit inbound rules
Inbound rules control the incoming traffic that's allowed to reach the instance.
Inbound rules
Security group rule ID
Type
Protocol
Port range
Source
Description - optional
sgr-014821cf7beae6b6e
SSH
TCP
22
Custom
0.0.0.0/0
Delete
Custom TCP
TCP
3000
Custom
Delete
Add rule
Cancel
Preview changes
Save rules

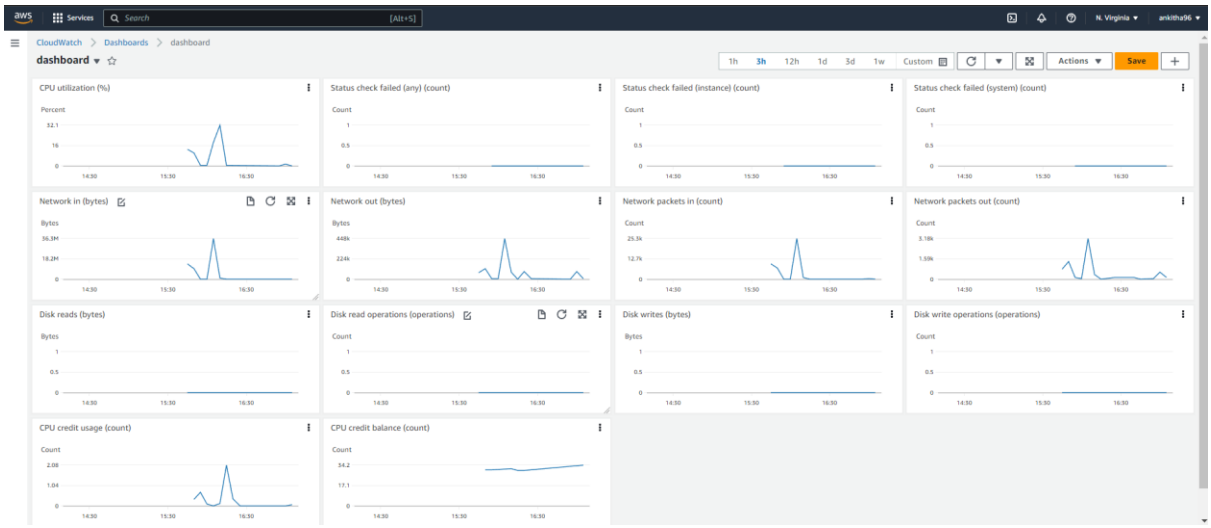

Inbound security group rules successfully modified on security group (sg-0c106448190ba6bbe | launch-wizard-11)
Details
EC2 > Security Groups > sg-0c106448190ba6bbe - launch-wizard-11
sg-0c106448190ba6bbe - launch-wizard-11
Actions
Details
Security group name
launch-wizard-11
Security group ID
sg-0c106448190ba6bbe
Description
launch-wizard-11 created 2023-03-21T15:47:40.877Z
VPC ID
Owner
269046398288
Inbound rules count
2 Permission entries
Outbound rules count
1 Permission entry
Inbound rules
Outbound rules
Tags
You can now check network connectivity with Reachability Analyzer
Run Reachability Analyzer
Inbound rules (2)
Manage tags
Edit inbound rules
Name
Security group rule...
IP version
Type
Protocol
Port range
Source
Description
sgr-06e8c14823cf51687
IPv4
Custom TCP
TCP
3000
0.0.0.0/0
sgr-014821cf7beae6b6e
IPv4
SSH
TCP
22
0.0.0.0/0


Not secure | 35.174.205.220:3000
Edit src/App.js and save to reload.
Learn React


Instance ID
i-01c0aaaf8e28269db (instancee)
Public IPv4 address
35.174.205.220 | open address
Private IPv4 addresses
172.31.61.64
IPv6 address
–
Instance state
Running
Public IPv4 DNS
ec2-35-174-205-220.compute-1.amazonaws.com | open address
Hostname type
IP name: ip-172-31-61-64.ec2.internal
Private IP DNS name (IPv4 only)
ip-172-31-61-64.ec2.internal
Answer private resource DNS name
IPv4 (A)
Instance type
t2.micro
Elastic IP addresses
–
Auto-assigned IP address
35.174.205.220 [Public IP]
VPC ID
vpc-05baefd556629144d
AWS Compute Optimizer finding
Opt-in to AWS Compute Optimizer for recommendations. | Learn more
IAM Role
–
Subnet ID
subnet-086854d5c6f1c3457
Auto Scaling Group name
–
Details
Security
Networking
Storage
Status checks
Monitoring
Tags
Manage detailed monitoring
1h
3h
12h
1d
3d
1w
Custom
Add to dashboard
CPU utilization (%)
Status check failed (any) (count)
Status check failed (instance) (count)
Status check failed (system) (count)
Network in (bytes)
Network out (bytes)
Network packets in (count)
Network packets out (count)


Detailed monitoring
After you enable detailed monitoring for an instance, monitoring data is available in 1-minute periods. Learn more
Instance ID
i-01c0aaaf8e28269db (instancee)
Detailed monitoring
Enable
After you enable detailed monitoring, the Amazon EC2 console displays monitoring graphs with a 1-minute period for the instance.
Additional charges apply
Cancel
Confirm


Add to dashboard
Select a dashboard
Select an existing dashboard or create a new one.
dashboard
dashboard
Cancel
Add to dashboard
Share dashboard
Delete
Sharing
Favorite
Last update (UTC)
2023-03-21 17:11


Services
Search
[Alt+S]
N. Virginia
ankitha96
CloudWatch
Dashboards
dashboard
dashboard
1h
3h
12h
1d
3d
1w
Custom
Actions
Save
CPU utilization (%)
Status check failed (any) (count)
Status check failed (instance) (count)
Status check failed (system) (count)
Network in (bytes)
Network out (bytes)
Network packets in (count)
Network packets out (count)
Disk reads (bytes)
Disk read operations (operations)
Disk writes (bytes)
Disk write operations (operations)
CPU credit usage (count)
CPU credit balance (count)