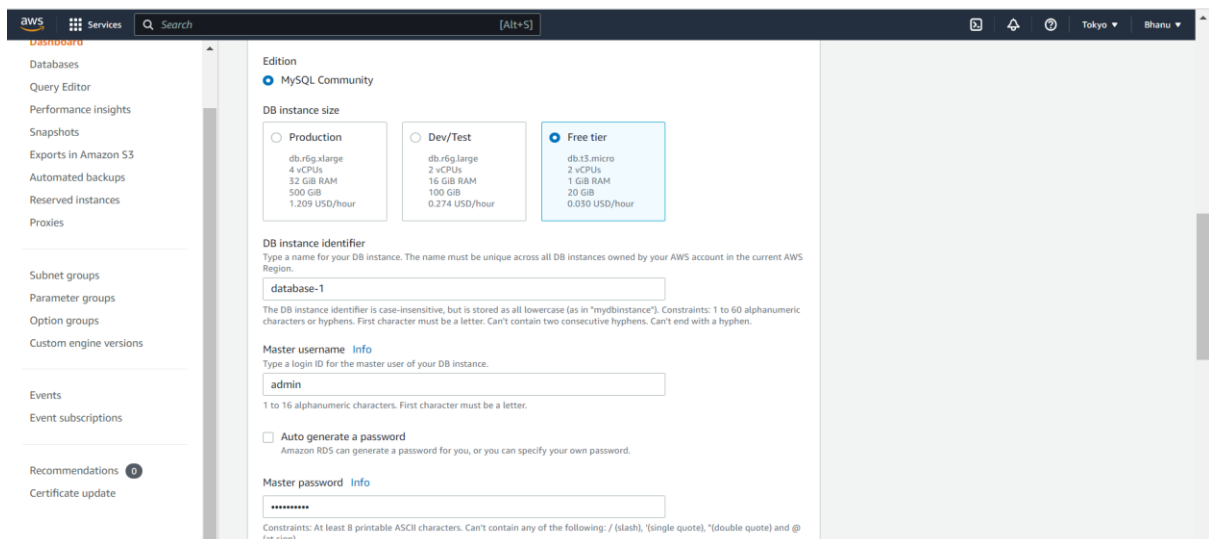
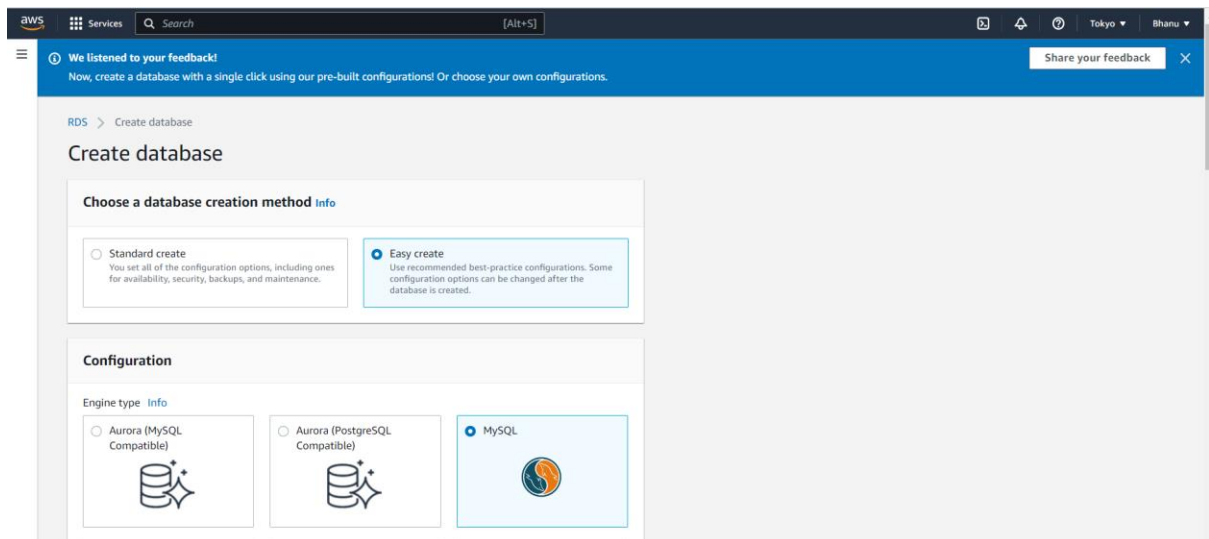
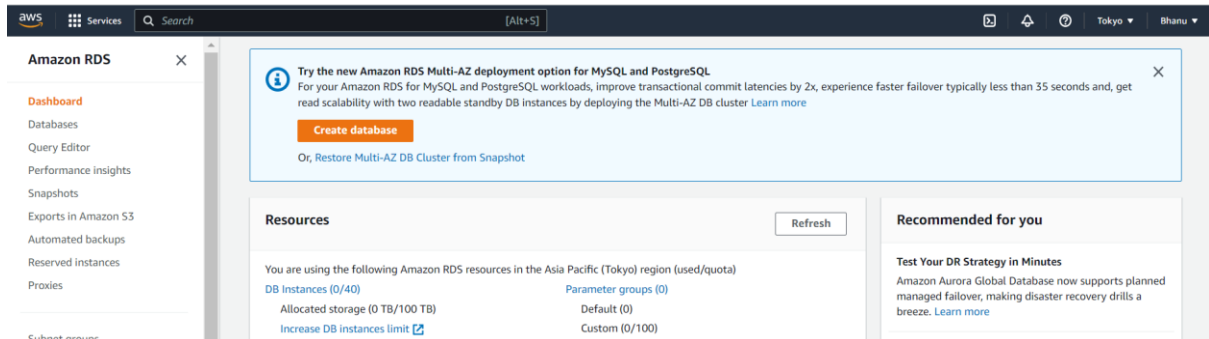
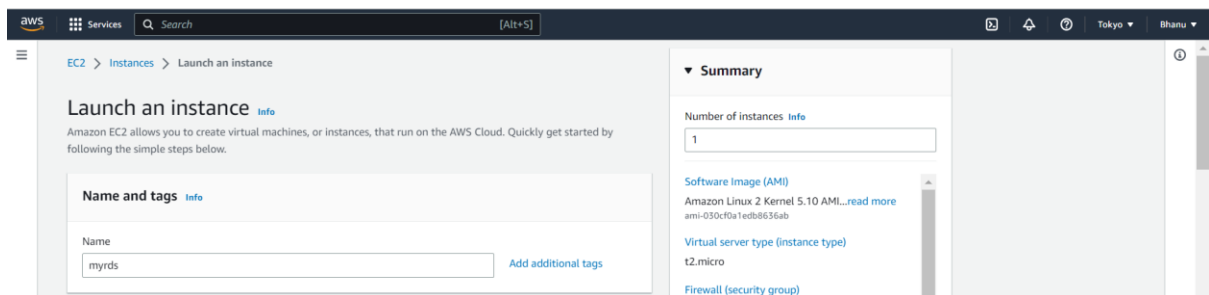
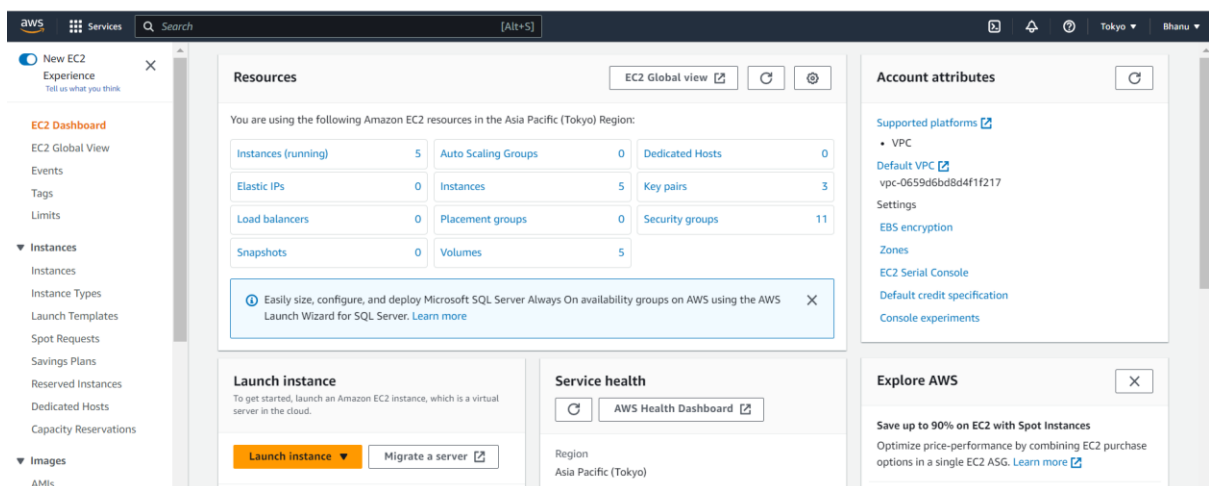
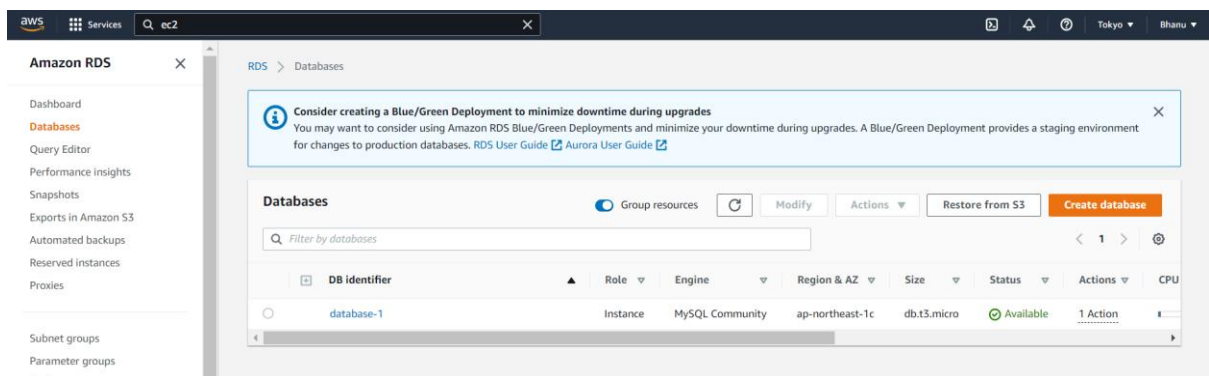
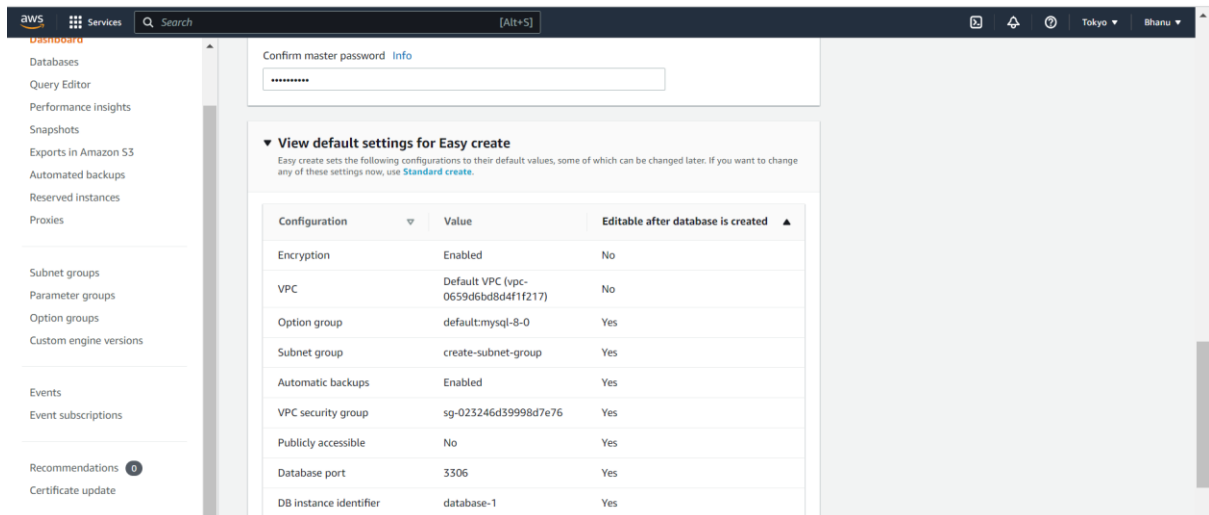


3. Create an rds connection with ec2 instance and use it to create an sql database and a sample table.





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▼ Application and OS Images (Amazon Machine Image) Info

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below

Search our full catalog including 1000s of application and OS images

RecentsQuick Start

Amazon Linux

macOS

Ubuntu

Windows

Red Hat

S

Browse more AMIs

Amazon Machine Image (AMI)

Amazon Linux 2 AMI (HVM) - Kernel 5.10, SSD Volume Type
ami-030cfa1edb8636ab (64-bit (x86)) / ami-0ed2199a781e8ff5 (64-bit (ARM))
Virtualization: hvm ENA enabled: true Root device type: ebs

Free tier eligible

Description

Amazon Linux 2 Kernel 5.10 AMI 2.0.20230307.0 x86_64 HVM gp2

Architecture

AMI ID

64-bit (x86)

ami-030cfa1edb8636ab

Verified provider

▼ Summary

Number of instances Info

1

Software Image (AMI)

Amazon Linux 2 Kernel 5.10 AMI...read more
ami-030cfa1edb8636ab

Virtual server type (instance type)

t2.micro

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million IOPS, 1 GB of

CancelLaunch instance

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New EC2 Experience

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Instances

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Savings Plans

Reserved Instances

Dedicated Hosts

▼ Instance type Info

Instance type

t2.micro

Family: t2 1 vCPU 1 GiB Memory

On-Demand Windows pricing: 0.0198 USD per Hour

On-Demand SUSE pricing: 0.0152 USD per Hour

On-Demand RHEL pricing: 0.0752 USD per Hour

On-Demand Linux pricing: 0.0152 USD per Hour

Free tier eligible

Compare instance types

▼ Key pair (login) Info

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - required

rdsskey

Create new key pair

▼ Summary

Number of instances Info

1

Software Image (AMI)

Amazon Linux 2 Kernel 5.10 AMI...read more
ami-030cfa1edb8636ab

Virtual server type (instance type)

t2.micro

Firewall (security group)

New security group

Storage (volumes)

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Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in

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▼ Images

AMIs

AMI Catalog

▼ Elastic Block Store

▼ Network settings Info

VPC - required Info

vpc-0659d6bd8d4f1f217

172.31.0.0/16

Subnet Info

subnet-0381e12212ab9a7c

VPC: vpc-0659d6bd8d4f1f217 Owner: 817201678563

Availability Zone: ap-northeast-1c IP addresses available: 4088 CIDR: 172.31.0.0/20

Auto-assign public IP Info

Enable

Firewall (security groups) Info

A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

Create security groupSelect existing security group

Security group name - required

rdssg

Description - required Info

rdssg created 2023-03-21T06:07:33.168Z

Inbound security groups rules

Security group rule 1 (TCP, 22, 117.205.68.99/32)

Remove

▼ Summary

Number of instances Info

1

Software Image (AMI)

Amazon Linux 2 Kernel 5.10 AMI...read more
ami-030cfa1edb8636ab

Virtual server type (instance type)

t2.micro

Firewall (security group)

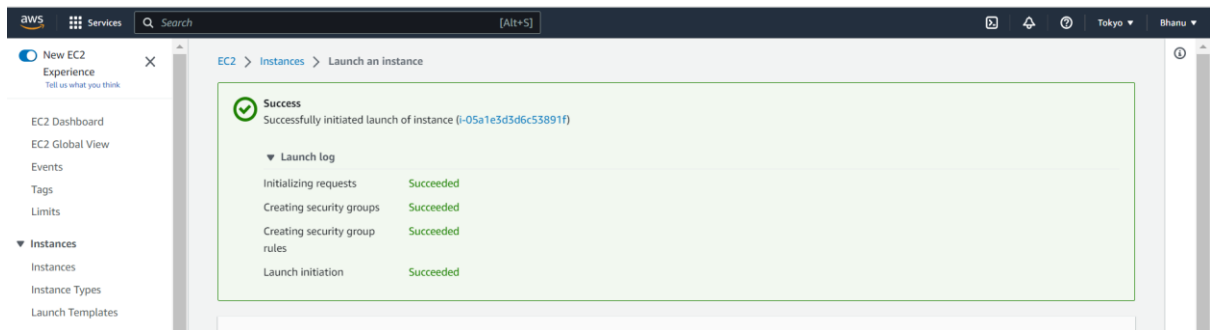
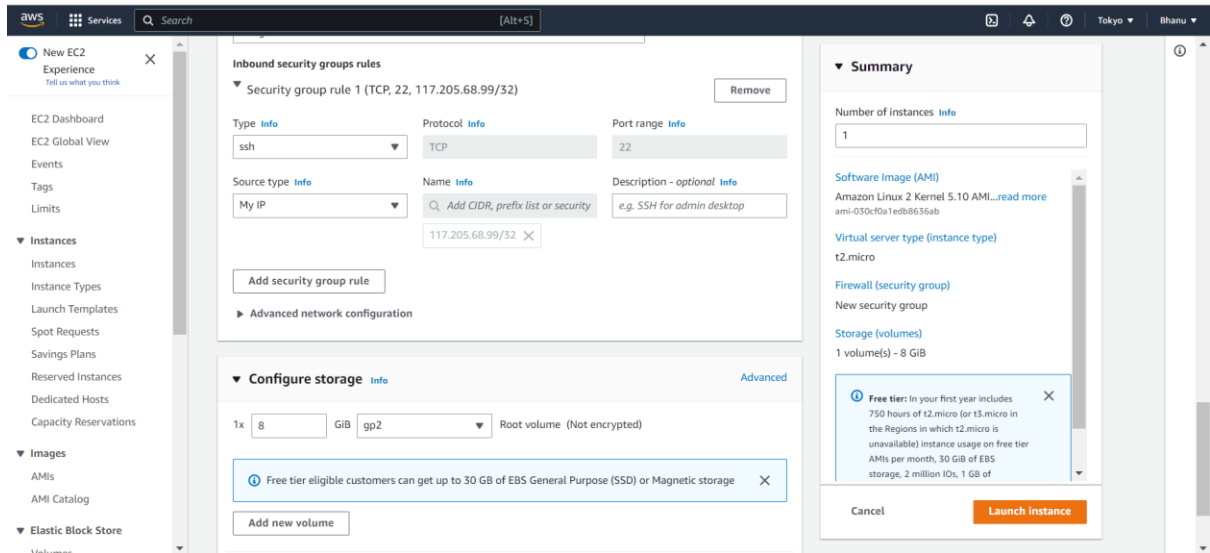
New security group

Storage (volumes)

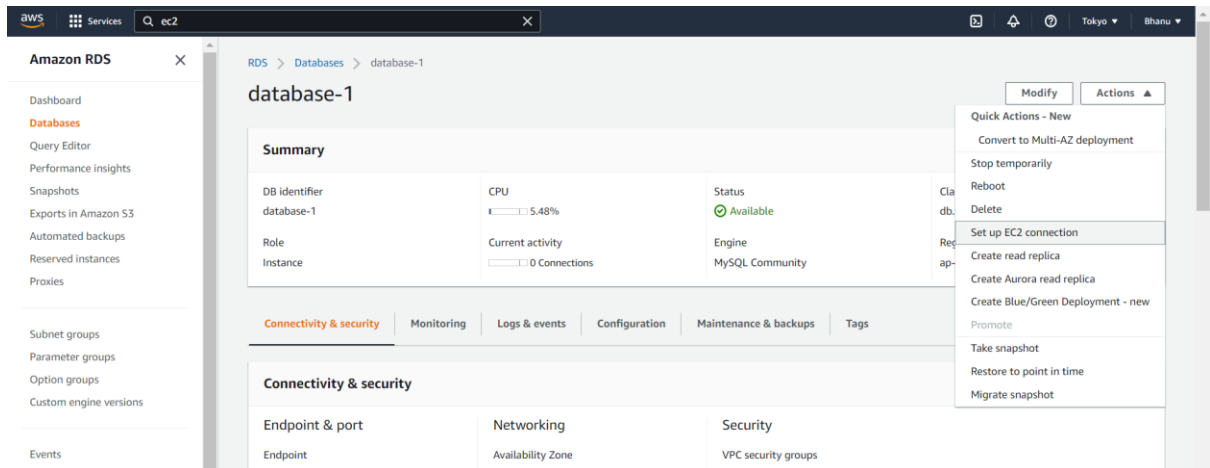
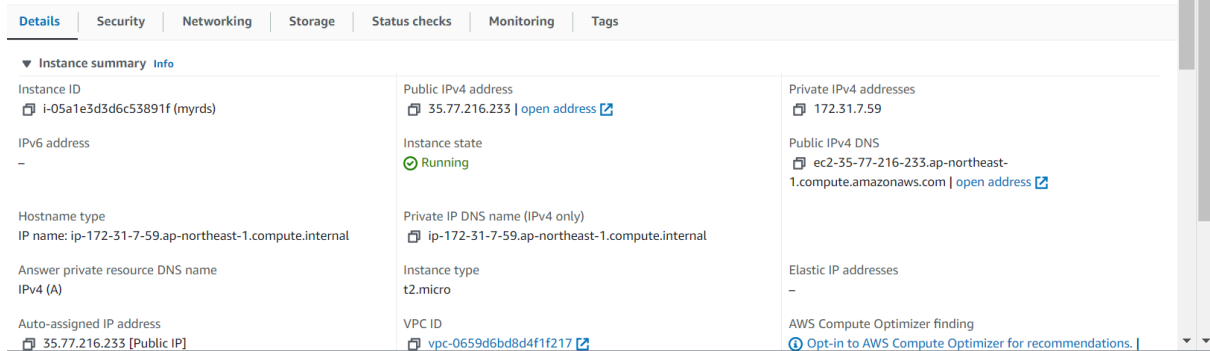
1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million IOPS, 1 GB of

CancelLaunch instance



Instance: i-05a1e3d3d6c53891f (myrds)



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Services

ec2

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RDS > Databases > Set up EC2 connection

Step 1
Set up EC2 connection

Step 2
Review and confirm

Set up EC2 connection

Select EC2 instance

Database
database-1

EC2 instance
Choose the EC2 instance to connect to this database. Only EC2 instances in the same VPC as the database are shown. If no EC2 instances in the same VPC are available, you can create a new EC2 instance.

i-05a1e3d3d6c53891f
myrds ap-northeast-1c

↻

Create EC2 instance

Cancel

Continue

aws

Services

ec2

Tokyo

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RDS > Databases > Set up EC2 connection

Step 1
Set up EC2 connection

Step 2
Review and confirm

Review and confirm

Connection summary

You are setting up a connection between RDS database **database-1** and EC2 instance **i-05a1e3d3d6c53891f**.

To set up a connection between the database and the EC2 instance, VPC security group **rdsg-ec2-1** is added to the database, and VPC security group **ec2-rds-1** is added to the EC2 instance.

VPC: vpc-0659d6bd8d4f1f217 (-)

Security group: **rdsg-ec2-1** (connection rule)
RDS
database-1
Port: 3306

Security group: **ec2-rds-1** (connection rule)
EC2
i-05a1e3d3d6c53891f

Bold indicates an addition being made to set up a connection.

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Services

ec2

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RDS > Databases > Set up EC2 connection

Step 1
Set up EC2 connection

Step 2
Review and confirm

VPC: vpc-0659d6bd8d4f1f217 (-)

Security group: **rdsg-ec2-1** (connection rule)
RDS
database-1
Port: 3306

Security group: **ec2-rds-1** (connection rule)
EC2
i-05a1e3d3d6c53891f

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, rdsg-ec2-1

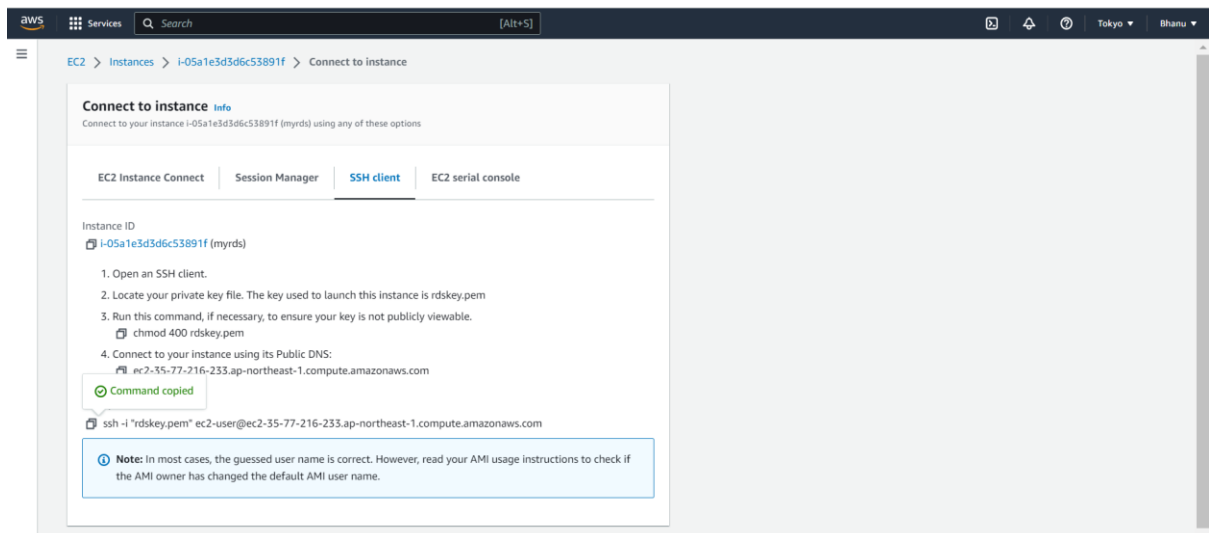
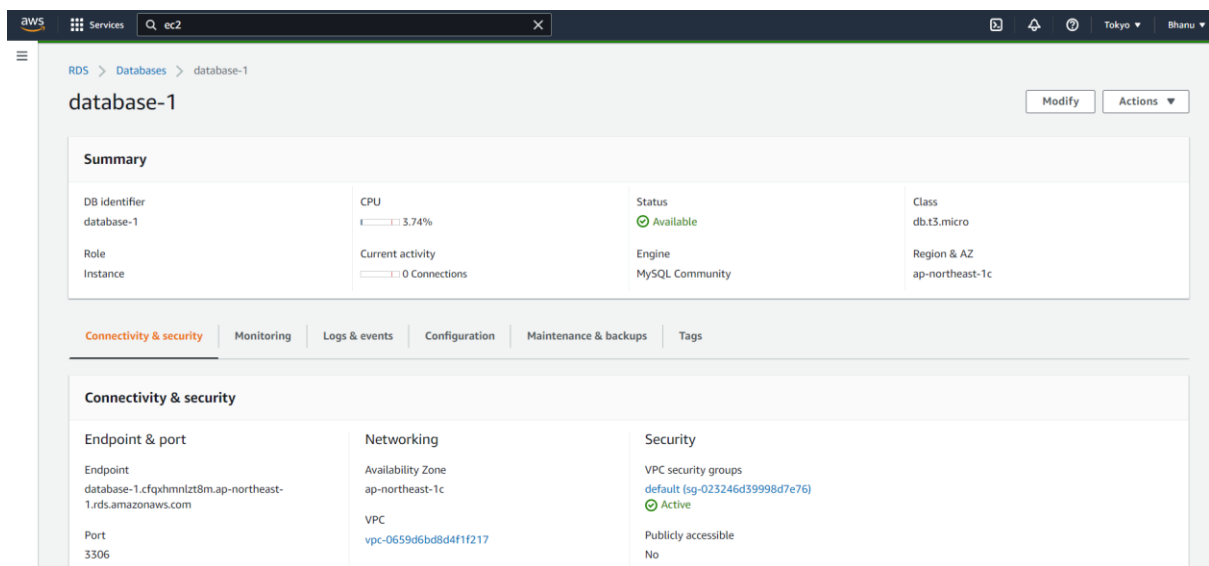
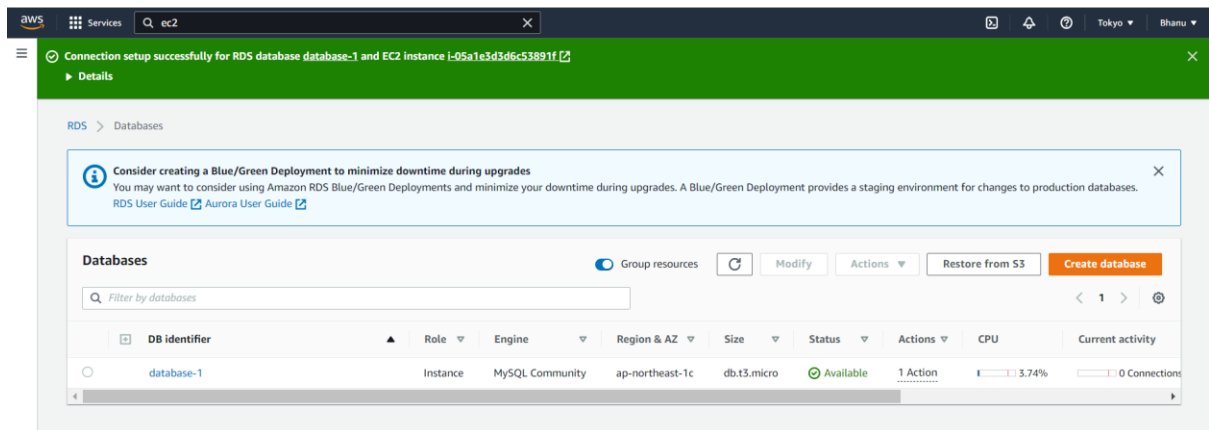
Changes to EC2 instance: i-05a1e3d3d6c53891f

Attribute	Current value	New value
Security group	rdsg	rdsg, ec2-rds-1

Cancel

Previous

Confirm and set up



```
ec2-user@ip-172-31-7-59:~
```

```
Microsoft Windows [Version 10.0.19044.2728]
```

```
(c) Microsoft Corporation. All rights reserved.
```

```
C:\Users\DELL>cd downloads
```

```
C:\Users\DELL\Downloads>ssh -i "rdskey.pem" ec2-user@ec2-35-77-216-233.ap-northeast-1.compute.amazonaws.com
```

```
The authenticity of host 'ec2-35-77-216-233.ap-northeast-1.compute.amazonaws.com (35.77.216.233)' can't be established.
```

```
ECDSA key fingerprint is SHA256:kQx8ECw3tc76CaVcaY3kdYso9ktF2qGqMWSYDuIQnFk.
```

```
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
```

```
Warning: Permanently added 'ec2-35-77-216-233.ap-northeast-1.compute.amazonaws.com,35.77.216.233' (ECDSA) to the list of known hosts.
```

```
 _ | _ | )  
 _ | ( _ /  Amazon Linux 2 AMI  
 _ | \ _ | _ |
```

```
https://aws.amazon.com/amazon-linux-2/
```

```
[ec2-user@ip-172-31-7-59 ~]$ sudo yum update -y
```

```
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
```

```
amzn2-core | 3.7 kB 00:00:00
```

```
No packages marked for update
```

```
[ec2-user@ip-172-31-7-59 ~]$ sudo yum install mariadb
```

```
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
```

```
Resolving Dependencies
```

```
--> Running transaction check
```

```
---> Package mariadb.x86_64 1:5.5.68-1.amzn2 will be installed
```

```
--> Finished Dependency Resolution
```

```
Dependencies Resolved
```

```
===== Package  
rsion Repository Size  
=====Install  
mariadb x86_64 1:5.5.68-1.amzn2 amzn2-core 8.8 M
```

```
Transaction Summary
```

```
=====Install
```

```
Total download size: 8.8 M
```

```
Installed size: 49 M
```

```
Is this ok [y/d/N]: y
```

```
Downloading packages:
```

```
ec2-user@ip-172-31-7-59:~
```

```
Installed size: 49 M
```

```
Is this ok [y/d/N]: y
```

```
Downloading packages:
```

```
mariadb-5.5.68-1.amzn2.x86_64.rpm | 8.8 MB 00:00:00
```

```
Running transaction check
```

```
Running transaction test
```

```
Transaction test succeeded
```

```
Running transaction
```

```
Installing : 1:mariadb-5.5.68-1.amzn2.x86_64 1/1
```

```
Verifying : 1:mariadb-5.5.68-1.amzn2.x86_64 1/1
```

```
Installed:
```

```
mariadb.x86_64 1:5.5.68-1.amzn2
```

```
Complete!
```

```
ec2-user@ip-172-31-7-59:~
```

```
Complete!
```

```
[ec2-user@ip-172-31-7-59 ~]$ mysql -h database-1.cfqxhmlzt8m.ap-northeast-1.rds.amazonaws.com -P 3306 -u admin -p
```

```
Enter password:
```

```
Welcome to the MariaDB monitor. Commands end with ; or \g.
```

```
Your MySQL connection id is 19
```

```
Server version: 8.0.28 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)]> SELECT CURRENT_TIMESTAMP;
```

```
+-----+  
| CURRENT_TIMESTAMP |
```

```
+-----+  
| 2023-03-21 06:22:40 |
```

```
+-----+
```

```
1 row in set (0.00 sec)
```

```
ec2-user@ip-172-31-7-59:~  
[ec2-user@ip-172-31-7-59 ~]$ mysql -h database-1.cfqxhmlzt8m.ap-northeast-1.rds.amazonaws.com -P 3306 -u admin -p  
Enter password:  
Welcome to the MariaDB monitor.  Commands end with ; or \g.  
Your MySQL connection id is 21  
Server version: 8.0.28 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.
```

```
C:\ ec2-user@ip-172-31-7-59:~
```

```
MySQL [(none)]> CREATE DATABASE sampled;
Query OK, 1 row affected (0.01 sec)
```

```
C:\ ec2-user@ip-172-31-7-59:~
```

```
MySQL [(none)]> USE sampled;
MySQL [(none)]> CREATE TABLE sampletable (
    id INT NOT NULL AUTO_INCREMENT,
    name VARCHAR(50) NOT NULL
) Database changed
MySQL [sampled]>
MySQL [sampled]> CREATE TABLE sampletable (
    -> id INT NOT NULL AUTO_INCREMENT,
    -> name VARCHAR(50) NOT NULL,
    -> PRIMARY KEY (id)
    -> );
Query OK, 0 rows affected (0.02 sec)
```

```
C:\ ec2-user@ip-172-31-7-59:~
```

```
MySQL [sampled]> SHOW TABLES;
+-----+
| Tables_in_sampled |
+-----+
| sampletable       |
+-----+
1 row in set (0.00 sec)
```

```
C:\ ec2-user@ip-172-31-7-59:~
```

```
MySQL [sampled]> INSERT INTO sampletable (name) VALUES ('John');
MySQL [sampled]> INSERT INTO sampletable (name) VALUES ('Jane');
Query OK, 1 row affected (0.01 sec)

MySQL [sampled]> INSERT INTO sampletable (name) VALUES ('Jane');
Query OK, 1 row affected (0.01 sec)
```


ec2-user@ip-172-31-7-59:~

```
MySQL [sampledb]> SELECT * FROM sampletable;
```

```
+-----+-----+
```

```
| id | name |
```

```
+-----+-----+
```

```
| 1 | John |
```

```
| 2 | Jane |
```

```
+-----+-----+
```

```
2 rows in set (0.00 sec)
```

```
MySQL [sampledb]> 
```