Console Home | us-east-1   subnets | VPC Console ✕   Dashboard | EC2 | us-east-1   RDS | us-east-1   +

us-east-1.console.aws.amazon.com/vpcconsole/home?region=us-east-1#subnets:

● VPN

aws   ::: Services   Q Search   [Alt+S]   N. Virginia ▼   Subham Pradhan ▼

VPC dashboard ✕

EC2 Global View ☑

Filter by VPC:

Select a VPC ▼

▼ **Virtual private cloud**

Your VPCs

Subnets

Route tables

Internet gateways

Egress-only internet gateways

Carrier gateways

DHCP option sets

Elastic IPs

Managed prefix lists

Endpoints

Endpoint services

NAT gateways

Peering connections

▼ **Security**

Network ACLs

Security groups

Subnets (1/1)   Info   ⟳   Actions ▼   **Create subnet**

< 1 >   ⚙

Q Find resources by attribute or tag

☑	Name	▽	Subnet ID	▽	State	▽	VPC	▽	IPv4 CIDR	▽	IPv6 CIDR
☑	RDS-SUBNET		subnet-0fb66eea867ab257c		⊘ Available		vpc-0750fd0b067b5246d	VPC...		10.0.1.0/24		–

subnet-0fb66eea867ab257c / RDS-SUBNET

Details   Flow logs   Route table   Network ACL   CIDR reservations   Sharing   Tags

Details

Subnet ID
🗗 subnet-0fb66eea867ab257c

Available IPv4 addresses
🗗 251

Network border group
🗗 us-east-1

Default subnet
No

Subnet ARN
🗗 arn:aws:ec2:us-east-1:782921506756:subnet/subnet-0fb66eea867ab257c

IPv6 CIDR
–

VPC
vpc-0750fd0b067b5246d | VPC-RDS

Auto-assign public IPv4 address

State
⊘ Available

Availability Zone
🗗 us-east-1a

Route table
rtb-0dc5c4053007ecdb9 | RDS-RT

Auto-assign IPv6 address
No

IPv4 CIDR
🗗 10.0.1.0/24

Availability Zone ID
🗗 use1-az2

Network ACL
acl-0ce8c03cabbd88e3d

Auto-assign customer-owned IPv4 address
No

▶ CloudShell   Feedback   © 2023, Amazon Web Services, Inc. or its affiliates.   Privacy   Terms   Cookie preferences

Type here to search   29°C Haze   ENG   11:40 AM   12-11-2023

us-east-1.console.aws.amazon.com/rds/home?region=us-east-1#launch-dbinstance:

aws | Services | Q Search | [Alt+S] | N. Virginia ▾ | Subham Pradhan ▾

RDS > Create database

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.

Engine options

Engine type Info

○ Aurora (MySQL Compatible)

○ Aurora (PostgreSQL Compatible)

● MySQL

○ MariaDB

○ PostgreSQL

○ Oracle

ORACLE

MySQL ✕

MySQL is the most popular open source database in the world. MySQL on RDS offers the rich features of the MySQL community edition with the flexibility to easily scale compute resources or storage capacity for your database.

- Supports database size up to 64 TiB.

- Supports General Purpose, Memory Optimized, and Burstable Performance instance classes.

- Supports automated backup and point-in-time recovery.

- Supports up to 15 Read Replicas per instance, within a single Region or 5 read replicas cross-region.

Type here to search   29°C Haze   ENG   11:50 AM   12-11-2023

us-east-1.console.aws.amazon.com/rds/home?region=us-east-1#launch-dbinstance:

aws | Services | Q Search | [Alt+S] | N. Virginia ▾ | Subham Pradhan ▾

MySQL 8.0.33

MySQL ✕

MySQL is the most popular open source database in the world. MySQL on RDS offers the rich features of the MySQL community edition with the flexibility to easily scale compute resources or storage capacity for your database.

Templates
Choose a sample template to meet your use case.

○ **Production**
Use defaults for high availability and fast, consistent performance.

○ **Dev/Test**
This instance is intended for development use outside of a production environment.

◉ **Free tier**
Use RDS Free Tier to develop new applications, test existing applications, or gain hands-on experience with Amazon RDS.
Info

- Supports database size up to 64 TiB.

- Supports General Purpose, Memory Optimized, and Burstable Performance instance classes.

- Supports automated backup and point-in-time recovery.

- Supports up to 15 Read Replicas per instance, within a single Region or 5 read replicas cross-region.

Availability and durability

Deployment options **Info**
The deployment options below are limited to those supported by the engine you selected above.

○ Multi-AZ DB Cluster - *new*
Creates a DB cluster with a primary DB instance and two readable standby DB instances, with each DB instance in a different Availability Zone (AZ). Provides high availability, data redundancy and increases capacity to serve read workloads.

○ Multi-AZ DB instance (not supported for Multi-AZ DB cluster snapshot)
Creates a primary DB instance and a standby DB instance in a different AZ. Provides high availability and data redundancy, but the standby DB instance doesn't support connections for read workloads.

○ Single DB instance (not supported for Multi-AZ DB cluster snapshot)
Creates a single DB instance with no standby DB instances.

Settings

Type here to search | 29°C Haze | ENG | 11:53 AM 12-11-2023

aws   ⠿ Services   🔍 Search   [Alt+S]   ⧉   ⬤   ?   ⚙   N. Virginia ▾   Subham Pradhan ▾

≡

Connectivity Info   ⟳

Compute resource

Choose whether to set up a connection to a compute resource for this database. Setting up a connection will automatically change connectivity settings so that the compute resource can connect to this database.

○ **Don't connect to an EC2 compute resource**

Don't set up a connection to a compute resource for this database. You can manually set up a connection to a compute resource later.

● **Connect to an EC2 compute resource**

Set up a connection to an EC2 compute resource for this database.

EC2 instance Info

Choose the EC2 instance to add as the compute resource for this database. A VPC security group is added to this EC2 instance. A VPC security group is also added to the database with an inbound rule that allows the EC2 instance to access the database.

i-06c4d5eb60c69b60d   ▾   ⟳
EC2-RDS

ⓘ **Some VPC settings can't be changed when a compute resource is added**

Adding an EC2 compute resource automatically selects the VPC, DB subnet group, and public access settings for this database. To allow the EC2 instance to access the database, a VPC security group rds-ec2-X is added to the database and another called ec2-rds-X to the EC2 instance. You can remove the new security group for the database only by removing the compute resource.

Virtual private cloud (VPC) Info

Choose the VPC. The VPC defines the virtual networking environment for this DB instance.

VPC-RDS (vpc-0750fd0b067b5246d)   ▾
1 Subnets, 1 Availability Zones

Only VPCs with a corresponding DB subnet group are listed.

ⓘ After a database is created, you can't change its VPC

MySQL   ✕

MySQL is the most popular open source database in the world. MySQL on RDS offers the rich features of the MySQL community edition with the flexibility to easily scale compute resources or storage capacity for your database.

- Supports database size up to 64 TiB.

- Supports General Purpose, Memory Optimized, and Burstable Performance instance classes.

- Supports automated backup and point-in-time recovery.

- Supports up to 15 Read Replicas per instance, within a single Region or 5 read replicas cross-region.

us-east-1.console.aws.amazon.com/rds/home?region=us-east-1#launch-dbinstance:

aws | Services | Q Search | [Alt+S] | N. Virginia ▼ | Subham Pradhan ▼

Connectivity Info

MySQL ✕

MySQL is the most popular open source database in the world. MySQL on RDS offers the rich features of the MySQL community edition with the flexibility to easily scale compute resources or storage capacity for your database.

- Supports database size up to 64 TiB.

- Supports General Purpose, Memory Optimized, and Burstable Performance instance classes.

- Supports automated backup and point-in-time recovery.

- Supports up to 15 Read Replicas per instance, within a single Region or 5 read replicas cross-region.

Compute resource

Choose whether to set up a connection to a compute resource for this database. Setting up a connection will automatically change connectivity settings so that the compute resource can connect to this database.

◉ **Don't connect to an EC2 compute resource**
Don't set up a connection to a compute resource for this database. You can manually set up a connection to a compute resource later.

○ **Connect to an EC2 compute resource**
Set up a connection to an EC2 compute resource for this database.

Virtual private cloud (VPC) Info

Choose the VPC. The VPC defines the virtual networking environment for this DB instance.

VPC-RDS (vpc-0750fd0b067b5246d)
1 Subnets, 1 Availability Zones ▼

Only VPCs with a corresponding DB subnet group are listed.

ⓘ After a database is created, you can't change its VPC.

DB subnet group Info

Choose the DB subnet group. The DB subnet group defines which subnets and IP ranges the DB instance can use in the VPC that you selected.

Create new DB Subnet Group ▼

Public access Info

○ **Yes**
RDS assigns a public IP address to the database. Amazon EC2 instances and other resources outside of the VPC can connect to your database. Resources inside the VPC can also connect to the database. Choose one or more VPC security groups that specify which resources can connect to the database.

◉ **No**
RDS doesn't assign a public IP address to the database. Only Amazon EC2 instances and other resources inside the VPC can

Type here to search | 31°C Haze | ENG | 11:55 AM 12-11-2023

```
ASUS@LAPTOP-Q9QDRNKO MINGW64 ~/Downloads
$ chmod 400 test-key.pem

ASUS@LAPTOP-Q9QDRNKO MINGW64 ~/Downloads
$ ssh -i "test-key.pem" ec2-user@ec2-34-233-120-231.compute-1.amazonaws.com
The authenticity of host 'ec2-34-233-120-231.compute-1.amazonaws.com (64:ff9b::2
2e9:78e7)' can't be established.
ED25519 key fingerprint is SHA256:gfSng7wv/wC1pQl0bIgAoDegQN+GASvpOjWpZSqD8pU.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-34-233-120-231.compute-1.amazonaws.com' (ED25519
) to the list of known hosts.
      ,        #_
   ~\_  ####_        Amazon Linux 2023
  ~~  \_#####\
  ~~     \###|
  ~~      \#/ ___    https://aws.amazon.com/linux/amazon-linux-2023
   ~~     V~' '->
    ~~~        /
     ~~._.  _/
        _/ _/
       _/m/'
Last login: Sun Nov 12 10:10:49 2023 from 18.206.107.27
[ec2-user@ip-10-0-2-238 ~]$ sudo su
```

```
[root@ip-10-0-2-238 ec2-user]#
[root@ip-10-0-2-238 ec2-user]# mysql -h rds-test.c0capommwqmn.us-east-1.rds.amazonaws.com -P 3306 -u admi
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MySQL connection id is 24
Server version: 8.0.33 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)]> show databses;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL
 1
MySQL [(none)]> show databases;
+--------------------+
| Database           |
+--------------------+
| admin123           |
| information_schema |
| mysql              |
| performance_schema |
| sys                |
+--------------------+
5 rows in set (0.003 sec)

MySQL [(none)]>
```

```
1
MySQL [(none)]> show databases;
+--------------------+
| Database           |
+--------------------+
| admin123           |
| information_schema |
| mysql              |
| performance_schema |
| sys                |
+--------------------+
5 rows in set (0.003 sec)

MySQL [(none)]> CREATE DATABASE STUDENT;
Query OK, 1 row affected (0.005 sec)

MySQL [(none)]> show databases;
+--------------------+
| Database           |
+--------------------+
| STUDENT            |
| admin123           |
| information_schema |
| mysql              |
| performance_schema |
| sys                |
+--------------------+
6 rows in set (0.001 sec)

MySQL [(none)]>
```

```
MySQL [STUDENT]> CREATE TABLE EMPLOYEE(
    ->     EMP_id INT AUTO_INCREMENT PRIMARY KEY,
    ->     EMP_name VARCHAR(50) NOT NULL,
    ->     EMP_age INT,
    ->     EMP_grade VARCHAR(10)
    -> );
Query OK, 0 rows affected (0.024 sec)

MySQL [STUDENT]> INSERT INTO EMPLOYEE( EMP_id,EMP_name ,EMP_age, EMP_grade) VALUES (1,'AJAY',20, 'A');
Query OK, 1 row affected (0.004 sec)

MySQL [STUDENT]> INSERT INTO EMPLOYEE( EMP_id,EMP_name ,EMP_age, EMP_grade) VALUES (2,'SUBHAM',30, 'B');
Query OK, 1 row affected (0.004 sec)

MySQL [STUDENT]> INSERT INTO EMPLOYEE( EMP_id,EMP_name ,EMP_age, EMP_grade) VALUES (3,'AKHIL',40, 'C');
Query OK, 1 row affected (0.003 sec)

MySQL [STUDENT]> SHOW TABLES;
+-------------------+
| Tables_in_STUDENT |
+-------------------+
| EMPLOYEE          |
| students          |
+-------------------+
2 rows in set (0.002 sec)

MySQL [STUDENT]> SELECT * FROM EMPLOYEE;
+--------+----------+---------+-----------+
| EMP_id | EMP_name | EMP_age | EMP_grade |
+--------+----------+---------+-----------+
|      1 | AJAY     |      20 | A         |
|      2 | SUBHAM   |      30 | B         |
|      3 | AKHIL    |      40 | C         |
+--------+----------+---------+-----------+
3 rows in set (0.002 sec)

MySQL [STUDENT]>
```