Create Database in RDS:

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

- **Amazon Aurora**

- ○ **MySQL**

- ○ **MariaDB**

- ○ **PostgreSQL**

- ○ **Oracle**

- ○ **Microsoft SQL Server**

Edition

- **Amazon Aurora MySQL-Compatible Edition**

DB Cluster Setting to be set:

Settings

DB cluster identifier Info
Type a name for your DB cluster. The name must be unique across all DB clusters owned by your AWS account in the current AWS Region.

```
database-1
```

The DB cluster identifier is case-insensitive, but is stored as all lowercase (as in "mydbcluster"). Constraints: 1 to 60 alphanumeric characters or hyphens. First character must be a letter. Can't contain two consecutive hyphens. Can't end with a hyphen.

▼ **Credentials Settings**

Master username Info
Type a login ID for the master user of your DB instance.

```
postgres
```

1 to 16 alphanumeric characters. First character must be a letter.

☐ Auto generate a password
   Amazon RDS can generate a password for you, or you can specify your own password.

Master password Info

```

```

Constraints: At least 8 printable ASCII characters. Can't contain any of the following: / (slash), '(single quote), "(double quote) and @ (at sign).

Confirm password Info

```

```

DB instance class

DB instance class Info
🔵 Memory optimized classes (includes r classes)
⚪ Burstable classes (includes t classes)

```
db.r5.large                              ▼
2 vCPUs    16 GiB RAM    Network: 4,750 Mbps
```

⚫ Include previous generation classes

Subnet Group Added:

✓ Successfully created Intern-a. View subnet group ✕

RDS > Subnet groups

Subnet groups (4)

[Edit] [Delete] [Create DB subnet group]

🔍 Filter by subnet group

< 1 > ⚙

	Name ▲	Description ▽	Status ▽	VPC ▽
☐	default-vpc-00f8984b2df206c70	Created from the RDS Management Console	⊘ Complete	vpc-00f8984b2df206c70
☐	default-vpc-058da4e261ea01687	Created from the RDS Management Console	⊘ Complete	vpc-058da4e261ea01687
☐	intern-a	RDS	⊘ Complete	vpc-0c7db8f4521cc7ff1
☐	intern-tutor	rds-subnet	⊘ Complete	vpc-00f8984b2df206c70

Subnet Group Associated:

⊘ Successfully created database intern-a

[View connection details]

RDS > Databases

Databases

⬤ Group resources   🔄   [Modify]   [Actions ▼]   [Restore from S3]   [Create database]

🔍 Filter by databases

< 1 > ⚙

	⊞	DB identifier ▲	Role ▽	Engine ▽	Region & AZ ▽	Size ▽	Status ▽	CPU	Current activity	Maintenance ▽	
⬤		intern-a	Instance	PostgreSQL	us-east-1b	db.t3.micro	⊘ Available	-		none	
○		intern-c-postgres-instance	Instance	PostgreSQL	us-east-1a	db.r6g.large	⊘ Available	-		next window	
○		intern-tutor	Instance	PostgreSQL	us-east-1d	db.t3.micro	⊘ Available	-		none	

Intern-a Rds Configuration:

| Connectivity & security | Monitoring | Logs & events | **Configuration** | Maintenance & backups | Tags |

Instance

Configuration	Instance class	Storage	Performance Insights
DB instance ID Intern-a-rds	**Instance class** db.t3.micro	**Encryption** Enabled	**Performance Insights enabled** Yes
Engine version 13.3	**vCPU** 2	**AWS KMS key** aws/rds	**AWS KMS key** aws/rds
DB name -	**RAM** 1 GB	**Storage type** General Purpose SSD (gp2)	**Retention period** 7 days
License model Postgresql License	**Availability**	**Storage** 20 GiB	**Database activity stream**
Option groups default:postgres-13 ⊘ In sync	**Master username** postgres	**Provisioned IOPS** -	**Status** ⊝ Stopped
Amazon Resource Name (ARN) arn:aws:rds:us-east-1:949263681218:db:intern-a-rds	**IAM DB authentication** Not enabled	**Storage autoscaling** Disabled	
Resource ID db-NJJU3HIS6GKMOIXI3BGTS2GJWM	**Multi-AZ** No		
Created time December 08, 2021, 03:19 (UTC+3:19)	**Secondary Zone** -		
Parameter group default.postgres13 ⊘ In sync			
Deletion protection Disabled			

Connectivity & Security :

RDS > Databases > intern-a-rds

intern-a-rds

[Modify] [Actions ▼]

Summary

DB identifier	CPU	Status	Class
intern-a-rds	▭ 4.47%	⊘ Available	db.t3.micro
Role	**Current activity**	**Engine**	**Region & AZ**
Instance	▭ 0.00 sessions	PostgreSQL	us-east-1a

| **Connectivity & security** | Monitoring | Logs & events | Configuration | Maintenance & backups | Tags |

Connectivity & security

Endpoint & port	Networking	Security
Endpoint intern-a-rds.codlcyqbqlbt.us-east-1.rds.amazonaws.com	**Availability Zone** us-east-1a	**VPC security groups** intern-a-rds (sg-032d906123b1c369b) ⊘ Active
Port 5432	**VPC** intern-a-vpc (vpc-0c7db8f4521cc7ff1)	**Publicly accessible** No
	Subnet group intern-a	**Certificate authority** rds-ca-2019
	Subnets subnet-09c4f49794d158964 subnet-0150e47fb255e147b subnet-0d6d83dc9fa09de4c	**Certificate authority date** August 22, 2024, 10:53 (UTC±10:53)

Connection Successfully made:

```
Connection to 54.226.91.16 closed.
durbs@durbs:~/Desktop$ ssh -i interna-key.pem ec2-user@54.226.91.16
Last login: Wed Dec  8 09:10:07 2021 from 110.44.115.161


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       _|  (     /   Amazon Linux 2 AMI
      ___|\___|___|

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-10-15-8-73 ~]$ ssh -i key.pem ec2-user@10.15.8.7
^C
[ec2-user@ip-10-15-8-73 ~]$ sudo systemctl stop openvpn
openvpn-server@server.service  openvpn@server.service
[ec2-user@ip-10-15-8-73 ~]$ sudo systemctl stop openvpn-server@server.service
[ec2-user@ip-10-15-8-73 ~]$ sudo systemctl disable  openvpn-server@server.service
Removed symlink /etc/systemd/system/multi-user.target.wants/openvpn-server@server.service.
[ec2-user@ip-10-15-8-73 ~]$ ssh -i key.pem ec2-user@10.15.8.7
Last login: Mon Dec  6 16:08:12 2021 from 10.15.8.73


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       _|  (     /   Amazon Linux 2 AMI
      ___|\___|___|

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-10-15-8-7 ~]$
[ec2-user@ip-10-15-8-7 ~]$
[ec2-user@ip-10-15-8-7 ~]$ psql -h intern-a.codlcyqbqlbt.us-east-1.rds.amazonaws.com -U postgres -W
Password for user postgres:
^C
psql: could not connect to server: Connection timed out
        Is the server running on host "intern-a.codlcyqbqlbt.us-east-1.rds.amazonaws.com" (10.15.8.28) and accepting
        TCP/IP connections on port 5432?
[ec2-user@ip-10-15-8-7 ~]$
[ec2-user@ip-10-15-8-7 ~]$ psql -h intern-a-rds.codlcyqbqlbt.us-east-1.rds.amazonaws.com  -U postgres -W
Password for user postgres:
psql (9.2.24, server 13.3)
WARNING: psql version 9.2, server version 13.0.
        Some psql features might not work.
SSL connection (cipher: ECDHE-RSA-AES256-GCM-SHA384, bits: 256)
Type "help" for help.

postgres=> psql
postgres-> \l
                                 List of databases
   Name    |  Owner   | Encoding |   Collate   |    Ctype    |   Access privileges
-----------+----------+----------+-------------+-------------+----------------------
 postgres  | postgres | UTF8     | en_US.UTF-8 | en_US.UTF-8 |
 rdsadmin  | rdsadmin | UTF8     | en_US.UTF-8 | en_US.UTF-8 | rdsadmin=CTc/rdsadmin
 template0 | rdsadmin | UTF8     | en_US.UTF-8 | en_US.UTF-8 | =c/rdsadmin          +
           |          |          |             |             | rdsadmin=CTc/rdsadmin
 template1 | postgres | UTF8     | en_US.UTF-8 | en_US.UTF-8 | =c/postgres          +
           |          |          |             |             | postgres=CTc/postgres
(4 rows)

postgres->
```