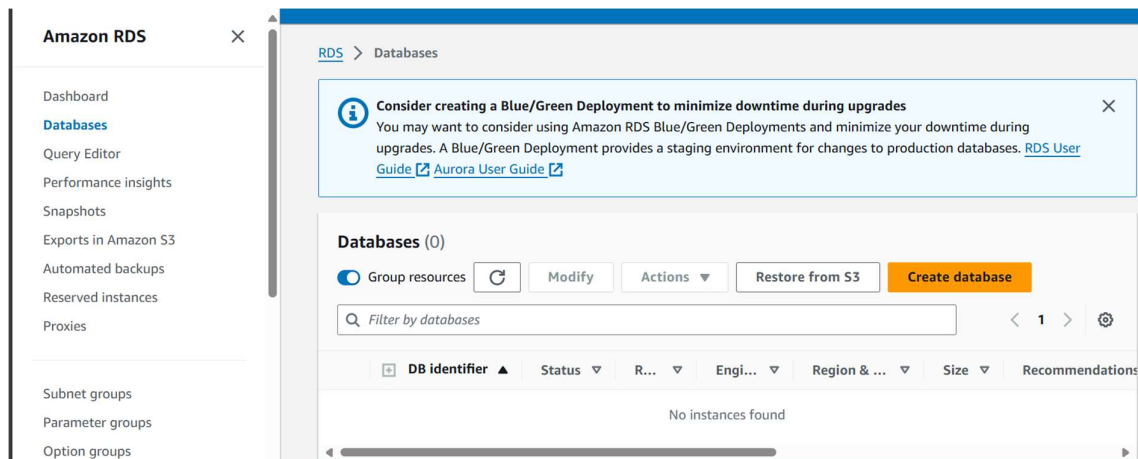


AMAZON - RDS



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 type [Info](#)

☐ Aurora (MySQL Compatible)



☐ Aurora (PostgreSQL Compatible)



☐ MySQL



☐ MariaDB



☒ **PostgreSQL**



☐ Oracle



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](#)

▼ Credentials Settings

Master username [Info](#)

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

1 to 16 alphanumeric characters. The first character must be a letter.

Credentials management

You can use AWS Secrets Manager or manage your master user credentials.

☐ Managed in AWS Secrets Manager - *most secure*

RDS generates a password for you and manages it throughout its lifecycle using AWS Secrets Manager.

☒ Self managed

Create your own password or have RDS create a password that you manage.

☐ Auto generate password

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

Master password [Info](#)

Password strength Weak

Minimum constraints: At least 8 printable ASCII characters. Can't contain any of the following symbols: / ' " @

Instance configuration

The DB instance configuration options below are limited to those supported by the engine that you selected above.

DB instance class [Info](#)

▼ Hide filters

☐ Include previous generation classes

☐ Standard classes (includes m classes)

☐ Memory optimized classes (includes r and x classes)

☒ Burstable classes (includes t classes)

db.t3.micro

2 vCPUs 1 GiB RAM Network: 2,085 Mbps

Storage

Storage type [Info](#)

Provisioned IOPS SSD (io2) storage volumes are now available.

General Purpose SSD (gp2)



Baseline performance determined by volume size

Allocated storage [Info](#)



20

GiB

The minimum value is 20 GiB and the maximum value is 6,144 GiB

 After you modify the storage for a DB instance, the status of the DB instance will be in storage-optimization. Your instance will remain available as the storage-optimization operation completes. [Learn more](#) 

► Storage autoscaling

 After you modify the storage for a DB instance, the status of the DB instance will be in storage-optimization. Your instance will remain available as the storage-optimization operation completes. [Learn more](#) 

▼ Storage autoscaling

Storage autoscaling [Info](#)

Provides dynamic scaling support for your database's storage based on your application's needs.

☒ Enable storage autoscaling

Enabling this feature will allow the storage to increase after the specified threshold is exceeded.

Maximum storage threshold [Info](#)

Charges will apply when your database autoscales to the specified threshold

50

GiB

The minimum value is 22 GiB and the maximum value is 6,144 GiB

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.

Network type [Info](#)

To use dual-stack mode, make sure that you associate an IPv6 CIDR block with a subnet in the VPC you specify.

☒ **IPv4**
Your resources can communicate only over the IPv4 addressing protocol.

☐ **Dual-stack mode**
Your resources can communicate over IPv4, IPv6, or both.

Virtual private cloud (VPC) [Info](#)

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

Default VPC (vpc-0e671aee2ece8f84d)
3 Subnets, 3 Availability Zones

Only VPCs with a corresponding DB subnet group are listed.

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.

default

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 connect to your database. Choose one or more VPC security groups that specify which resources can connect to the database.

VPC security group (firewall) [Info](#)

Choose one or more VPC security groups to allow access to your database. Make sure that the security group rules allow the appropriate incoming traffic.

☒ **Choose existing**
Choose existing VPC security groups

☐ **Create new**
Create new VPC security group

[WE WON'T SELECT PUBLIC ACCESS → YES IN OFFICE/WPRKING STATION]

Availability Zone [Info](#)

ap-south-1c

RDS Proxy

RDS Proxy is a fully managed, highly available database proxy that improves application scalability, resiliency, and security.

☐ [Create an RDS Proxy](#) [Info](#)

RDS automatically creates an IAM role and a Secrets Manager secret for the proxy. RDS Proxy has additional costs. For more information, see [Amazon RDS Proxy pricing](#).

Certificate authority - optional [Info](#)

Using a server certificate provides an extra layer of security by validating that the connection is being made to an Amazon database. It does so by checking the server certificate that is automatically installed on all databases that you provision.

rds-ca-rsa2048-g1 (default)

Expiry: May 20, 2061

If you don't select a certificate authority, RDS chooses one for you.

► Additional configuration

✔ Successfully created database [database-1](#)

View connection details

✕

You can use settings from database-1 to simplify configuration of [suggested database add-ons](#) while we finish creating your DB for you.

[RDS](#) > Databases

Databases (1)

☒ Group resources

↻

Modify

Actions ▼

Restore from S3

Create database

Q Filter by databases

DB identifier ▲

Status ▼

Role ▼

Engine ▼

Region & ... ▼

Size ▼

Recom

☒

[database-1](#)

✔ Available

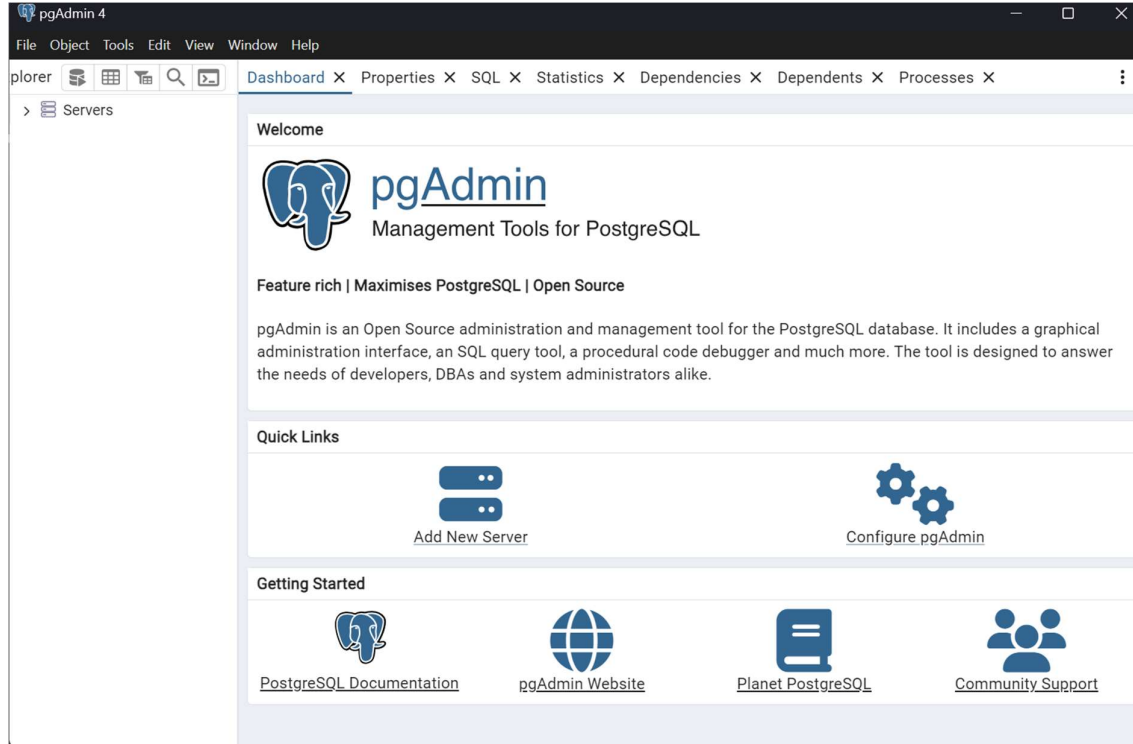
Instance

PostgreSQL

ap-south-1c

db.t3.micro

pgAdmin



| Connectivity & security | | |
|--|--|--|
| Endpoint & port | Networking | Security |
| <div>Endpoint copied</div> <div><div>database-1.c16oy0cci46q.ap-south-1.rds.amazonaws.com</div><div>Port5432</div></div> | <div>Availability Zoneap-south-1c</div> <div>VPCvpc-0e671aee2ece8f84d</div> <div>Subnet groupdefault-vpc-0e671aee2ece8f84d</div> | <div>VPC security groupsdefault (sg-03cf6c4a167296d62)<div>Active</div></div> <div>Publicly accessibleYes</div> <div>Certificate authorityInfo</div> |

Register - Server

General

Connection

Parameters

SSH Tunnel

Advanced

Host name/address

database-1.c16oy0cci46q.ap-south-1.rds.amazonaws.com

Port

5432

Maintenance database

postgres

Username

postgres

Kerberos authentication?

☐

Password

.....

Save password?

☐

Unable to connect to server: connection failed: connection to server at "15.207.220.197", port 5432 failed: FATAL: password authentication failed for user "postgres" connection to server at "15.207.220.197", port 5432 failed: FATAL: no pg_hba.conf entry for host "117.213.200.2", user "postgres", database "postgres", no encryption

Close

Reset

Save

PostgreSQL

TCP

5432

Cu...

0.0.0.0

Q

Delete

Add rule

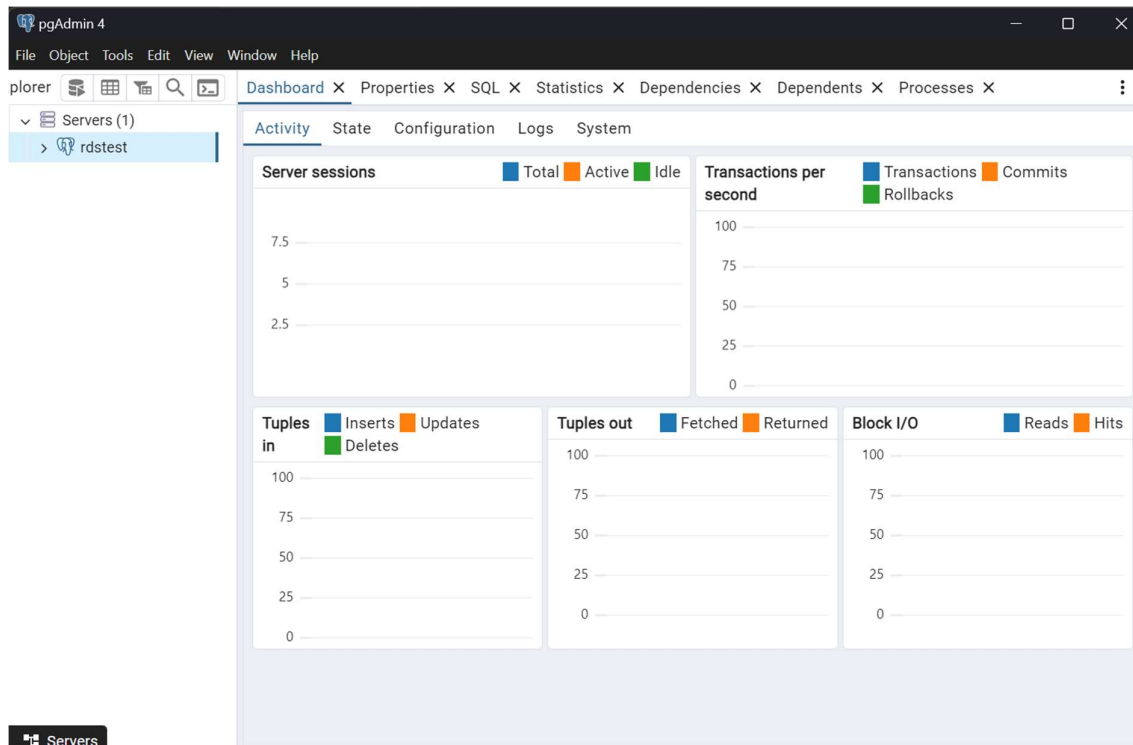
Rules with source of 0.0.0.0/0 or ::/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

Cancel

Preview changes

Save rules

[MODIFY INBOUND RULES AND ASSIGN PostgreSQL → 5432]



[CREATE A TEST DB]



Read – Replica

[RDS](#) > [Databases](#) > Create read replica

Create read replica

You are creating a replica DB instance from a source DB instance. This new DB instance will have the source DB instance's DB security groups and DB parameter groups.

Settings

Replica source

Source DB instance identifier

database-1

Role: Instance

DB instance identifier

This is the unique key that identifies a DB instance. This parameter is stored as a lowercase string (for example, mydbinstance).

postgresReplica

Instance configuration

The DB instance configuration options below are limited to those supported by the engine that you selected above.

DB instance class [Info](#)

▼ Hide filters

- ☒ Include previous generation classes
- ☐ Standard classes (includes m classes)
- ☐ Memory optimized classes (includes r and x classes)
- ☒ Burstable classes (includes t classes)

db.t3.micro

2 vCPUs 1 GiB RAM Network: 2,085 Mbps

AWS Region

Destination Region

The Region where the replica will be launched.

Asia Pacific (Mumbai) ▼

Storage

Storage type [Info](#)

Provisioned IOPS SSD (io2) storage volumes are now available.

General Purpose SSD (gp2) ▼

Baseline performance determined by volume size

Allocated storage [Info](#)

20

GiB

▼ Storage autoscaling

Storage autoscaling [Info](#)

Provides dynamic scaling support for your database's storage based on your application's needs.

☒ Enable storage autoscaling

Enabling this feature will allow the storage to increase after the specified threshold is exceeded.

Maximum storage threshold [Info](#)

Charges will apply when your database autoscales to the specified threshold

50

GiB

The minimum value is 22 GiB and the maximum value is 6,144 GiB

Availability

Deployment options [Info](#)

The following deployment options are limited to those supported by the engine.

☐ Multi-AZ DB Cluster

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


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




Creates a writer DB instance with no reader DB instances.

RDS > Databases

Databases (2)

☒ Group resources 

< 1 > 

|  DB identifier | Status | Role | Engine | Region & ... | Size | Rec |
|---|---|---------|------------|--------------|-------------|-----|
| <input checked="" type="radio"/> database-1 |  Available | Primary | PostgreSQL | ap-south-1c | db.t3.micro | |
| <input type="radio"/> postgresreplica |  Available | Replica | PostgreSQL | ap-south-1b | db.t3.micro | |

EC2- Connection

EC2 > Instances > Launch an instance


Launch an instance [Info](#)





Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

Name and tags [Info](#)

Name


[Add additional tags](#)


Instances (1/1) [Info](#) Last updated 1 minute ago 

| <input checked="" type="checkbox"/> | Name | Instance ID | Instance state | Instance type | Status check |
|-------------------------------------|--------------|---------------------|---|---------------|--|
| <input checked="" type="checkbox"/> | rds-test-ec2 | i-0f9e9e712d16d75eb |  Running   | t2.micro |  Initializing |

Changes to EC2 instance: i-0f9e9e712d16d75eb

| Attribute | Current value | New value |
|----------------|---------------|---------------------------|
| Security group | default | default, ec2-rds-1 |



Cross-Availability Zone (AZ) charges might apply
The RDS database database-1 (ap-south-1c) and EC2 instance i-0f9e9e712d16d75eb (ap-south-1a) are in different AZs. Cross AZ charges might apply. [Data transfer within same Region](#) 

Cancel

Previous

Set up

[CREATING NEW EC2- INSTANCE IN 1C]

SNAPSHOTS

[RDS](#) > [Snapshots](#) > Take snapshot

Take DB Snapshot

Preferences

To take a DB Snapshot, choose a database and name your DB Snapshot.

Snapshot type

- ☒ DB instance
☐ DB cluster

DB instance

DB Instance identifier. This is the unique key that identifies a DB Instance.

database-1

Snapshot name

Identifier for the DB Snapshot.

rdssnapshot-manual-1

Snapshot identifier is case insensitive, but stored as all lower-case, as in "mysnapshot". Cannot be null, empty, or blank. Must contain from 1 to 255 characters. For information on naming restrictions, see [Amazon RDS Naming Conventions](#).

[RDS](#) > Snapshots

Snapshots

[Manual](#)

[System](#)

[Shared with me](#)

[Public](#)

[Backup service](#)

[Exports in Amazon S3](#)

Manual snapshots (1)



Actions

Take snapshot

Filter by manual snapshots

< 1 > ⚙

| <input checked="" type="checkbox"/> | Snapshot name | DB instance or cluster | Snapshot creation time |
|-------------------------------------|--------------------------------------|------------------------|---------------------------------------|
| <input checked="" type="checkbox"/> | rdssnapshot-manual-1 | database-1 | September 03, 2024, 00:10 (UTC-07:00) |

DELETING – SERVICES

✓ Successfully deleted snapshot rdssnapshot-manual-1.

Notifications 0 2 0 0

[RDS](#) > Snapshots

Snapshots

Delete postgresreplica instance

Permanently delete **postgresreplica** DB instance. You can't undo this action.

⚠ Proceeding with this action will delete the instance with all its content and can affect related resources. [Learn more](#)

To avoid accidental deletion provide additional written consent.

To confirm deletion, type *delete me* into the field.

⚠ Final Snapshots are not available for Read Replica DB Instances.

Cancel

Delete

Databases (2)

Group resources

Modify

Actions

Restore from S3

Create database

Filter by databases

DB identifier

Status

Role

Engine

Region & ...

Size

R

| | | | | | | |
|----------------------------------|---------------------------------|------------|---------|------------|-------------|-------------|
| <input checked="" type="radio"/> | database-1 | ✗ Deleting | Primary | PostgreSQL | ap-south-1c | db.t3.micro |
| <input type="radio"/> | postgresreplica | ✗ Deleting | Replica | PostgreSQL | ap-south-1b | db.t3.micro |