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CHECK IT OUT!

Create PostgreSQL Database

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Create Database

Inside the RDS service, create a database, either by navigating to the Database section, or just click the "Create database" button:

The screenshot shows the Amazon RDS console interface. On the left is a navigation menu with options like Dashboard, Databases, Query Editor, Performance insights, Snapshots, Exports in Amazon S3, Automated backups, Reserved instances, Proxies, Subnet groups, Parameter groups, Option groups, and Custom engine versions. The main area displays a notification about the new Multi-AZ deployment option for MySQL and PostgreSQL, with a prominent orange 'Create database' button. Below the notification, there's a 'Resources' section showing usage for DB Instances, Parameter groups, DB Clusters, and Reserved instances. To the right, there's a 'Recommended for you' section with links to 'Build RDS Operational Tasks' and 'Implementing Cross-Region DR'.

Settings

Once you have started creating a database, you will be given some choices for the type and settings of your database.

To add a PostgreSQL database to your Django project, choose the following options:



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**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.

PostgreSQL engine method:

Engine options

Engine type [Info](#)

Amazon Aurora



MySQL



MariaDB



PostgreSQL



Oracle

ORACLE®



Microsoft SQL Server



Engine Version

PostgreSQL 13.7-R1



Free Tier Template:



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**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](#)

Name of database, username, and password

You can choose any name, username, and password:

Settings

DB instance identifier [Info](#)

Type a name for your DB instance. The name must be unique across all DB instances owned by your AWS account in the current AWS Region.

The DB instance identifier is case-insensitive, but is stored as all lowercase (as in "mydbinstance"). 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.

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 master password [Info](#)

Keep the default instance configuration:



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DB instance class [Info](#)

- ☐ 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

☐ Include previous generation classes

Check off the storage autoscaling:

It can be a good thing to enable storage autoscaling, but for this tutorial it is not necessary.

Storage

Storage type [Info](#)

General Purpose SSD (gp2)

Baseline performance determined by volume size



Allocated storage

200



GiB

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

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.

Grant public access, and create a new security group:

Give the security group a name, we will call it "w3-django":



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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.

Default VPC (vpc-08794647014e06c16) ▾

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.

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

New VPC security group name

w3-django

Availability Zone [Info](#)

No preference ▾

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](#).



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Database authentication options [Info](#)

- ☒ **Password authentication**
Authenticates using database passwords.
- ☐ **Password and IAM database authentication**
Authenticates using the database password and user credentials through AWS IAM users and roles.
- ☐ **Password and Kerberos authentication**
Choose a directory in which you want to allow authorized users to authenticate with this DB instance using Kerberos Authentication.

Keep default monitoring:

Monitoring

Performance Insights [Info](#)☒ Turn on Performance Insights [Info](#)Retention period [Info](#)

7 days (free tier) ▼

AWS KMS key [Info](#)

(default) aws/rds ▼

Account

620141911333

KMS key ID

alias/aws/rds



You can't change the KMS key after enabling Performance Insights.

► Additional configuration

Enhanced Monitoring



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The Amazon RDS Free Tier is available to you for 12 months. Each calendar month, the free tier will allow you to use the Amazon RDS resources listed below for free:

- 750 hrs of Amazon RDS in a Single-AZ db.t2.micro, db.t3.micro or db.t4g.micro Instance.
- 20 GB of General Purpose Storage (SSD).
- 20 GB for automated backup storage and any user-initiated DB Snapshots.

[Learn more about AWS Free Tier.](#)

When your free usage expires or if your application use exceeds the free usage tiers, you simply pay standard, pay-as-you-go service rates as described in the [Amazon RDS Pricing page.](#)



You are responsible for ensuring that you have all of the necessary rights for any third-party products or services that you use with AWS services.

Cancel

Create database

This will take a few minutes, but when it is finished, you will have a new PostgreSQL database, almost ready to run on your Django project!

In the [next chapter](#) you will learn how to connect your project to the database.

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