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topic\_url=https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/CHAP\_Tutorials.WebServerDB.CreateDBInstance.html



Documentation  
(<https://docs.aws.amazon.com/index.html>)

> Amazon RDS  
(<https://docs.aws.amazon.com/rds/index.html>)

> User Guide

# Create an Amazon RDS DB instance

[PDF \(/pdfs/AmazonRDS/latest/UserGuide/rds-ug.pdf#CHAP\\_Tutorials.WebServerDB.CreateDBInstance\)](#)

[RSS \(rdsupdates.rss\)](#) Focus mode

Create an RDS for MariaDB, RDS for MySQL, or RDS for PostgreSQL DB instance that maintains the data used by a web application.



## To create a MariaDB instance

1. Sign in to the AWS Management Console and open the Amazon RDS console at <https://console.aws.amazon.com/rds/> (<https://console.aws.amazon.com/rds/>) .
2. In the upper-right corner of the AWS Management Console, check the AWS Region. It should be the same as the one where you created your EC2 instance.
3. In the navigation pane, choose **Databases**.
4. Choose **Create database**.
5. On the **Create database** page, choose **Standard create**.
6. For **Engine options**, choose **MariaDB**.

## Engine options

Engine type [Info](#)

Aurora (MySQL Compatible)



Aurora (PostgreSQL Compatible)



MySQL



MariaDB



PostgreSQL



Oracle

**ORACLE®**

Microsoft SQL Server



IBM Db2

**IBM Db2**



- For **Templates**, choose **Free tier** or **Sandbox**. **Free tier** appears for free plan accounts. **Sandbox** appears for paid plan accounts.

## 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](#)



8. In the **Availability and durability** section, keep the defaults.

9. In the **Settings** section, set these values:

- **DB instance identifier** – Type `tutorial-db-instance`.
- **Master username** – Type `tutorial_user`.
- **Auto generate a password** – Leave the option turned off.
- **Master password** – Type a password.
- **Confirm password** – Retype the password.

### Settings

**DB instance identifier** [Info](#)  
Type a name for your DB instance. The name must be unique cross 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 (1 to 15 for SQL Server). 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), "(double quote) and @ (at sign).

**Confirm password** [Info](#)



10. In the **Instance configuration** section, set these values:

- **Burstable classes (includes t classes)**
- **db.t3.micro**

## Instance configuration

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

### 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



11. In the **Storage** section, keep the defaults.
12. In the **Connectivity** section, set these values and keep the other values as their defaults:
  - For **Compute resource**, choose **Connect to an EC2 compute resource**.
  - For **EC2 instance**, choose the EC2 instance you created previously, such as **tutorial-ec2-instance-web-server**.

## 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-1234567890abcdef0

tutorial-ec2-instance-web-server



#### 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.



13. In the **Database authentication** section, make sure **Password authentication** is selected.
14. Open the **Additional configuration** section, and enter **sample** for **Initial database name**. Keep the default settings for the other options.
15. To create your MariaDB instance, choose **Create database**.  
Your new DB instance appears in the **Databases** list with the status **Creating**.
16. Wait for the **Status** of your new DB instance to show as **Available**. Then choose the DB instance name to show its details.
17. In the **Connectivity & security** section, view the **Endpoint** and **Port** of the DB instance.

## tutorial-db-instance

### Summary

DB identifier  
tutorial-db-instance

CPU  
 3.10%

Role  
Instance

Current activity  
 0 Connections

### Connectivity & security

Monitoring

Logs & events

Configuration

Maintenan

### Connectivity & security

#### Endpoint & port

Endpoint  
tutorial-db-instance.  
west-2.rds.amazonaws.com

Port  
3306

#### Networking

Availability Zone  
us-west-2a  
  
VPC  
tutorial-vpc (vpc-04badc20a546242e6)  
  
Subnet group



Note the endpoint and port for your DB instance. You use this information to connect your web server to your DB instance.

#### 18. Complete [Install a web server on your EC2 instance](#)

([./CHAP\\_Tutorials.WebServerDB.CreateWebServer.html](#)) .

## Related resources

[Amazon RDS API Reference](https://docs.aws.amazon.com/AmazonRDS/latest/APIReference/index.html) (<https://docs.aws.amazon.com/AmazonRDS/latest/APIReference/index.html>)

AWS CLI commands for Amazon RDS (<https://docs.aws.amazon.com/cli/latest/reference/rds/>)

SDKs & Tools ↗ (<https://aws.amazon.com/tools/>)

## ▼ Recommended tasks

### How to



Install or update the latest version of the AWS CLI

(<https://docs.aws.amazon.com/cli/latest/userguide/getting-started-install.html>)

Connect CodeBuild to GitLab repositories for build projects

(<https://docs.aws.amazon.com/codebuild/latest/userguide/access-tokens-gitlab-overview.html>)

Connect to Linux instances using SSH for remote access

(<https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/connect-to-linux-instance.html>)

Create an EC2 instance to connect with your DB instance

([https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/CHAP\\_Tutorials.WebServerDB.LaunchEC2.html](https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/CHAP_Tutorials.WebServerDB.LaunchEC2.html))

Install and configure a web server on an EC2 instance

([https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/CHAP\\_Tutorials.WebServerDB.CreateWebServer.html](https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/CHAP_Tutorials.WebServerDB.CreateWebServer.html))

### Learn about



Understand the features and capabilities of Amazon EC2

(<https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/concepts.html>)

Configure retry options for Firehose delivery

([https://docs.aws.amazon.com/firehose/latest/APIReference/API\\_AmazonOpenSearchServerlessRetryOptions.html](https://docs.aws.amazon.com/firehose/latest/APIReference/API_AmazonOpenSearchServerlessRetryOptions.html))

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Timestream › developerguide

### Creating and connecting to a Timestream for InfluxDB instance

(<https://docs.aws.amazon.com/timestream/latest/developerguide/timestream-for-influx-getting-started.html>)

Tutorial creates EC2 instance, InfluxDB DB instance, sends Telegraf data to InfluxDB, accesses InfluxDB UI, deletes instances.

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Kendra › dg

### Getting started with a MySQL database data source (console)

(<https://docs.aws.amazon.com/kendra/latest/dg/getting-started-mysql.html>)

MySQL database configured with VPC, security group, credentials, connection, table, and data source for Amazon Kendra indexing.

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AmazonRDS › UserGuide

### Regions, Availability Zones, and Local Zones

(<https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/Concepts.RegionsAndAvailabilityZones.html>)

Amazon RDS enables placing resources like DB instances in multiple locations including Regions, Availability Zones, and Local Zones for low-latency access.



29 September 2024

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