

Module 6: Database Services Assignment - 1

You have been asked to:

1. Create an RDS MariaDB database
 2. Login into the DB from your PC
-

Amazon RDS[Dashboard](#)[Databases](#)[Query Editor](#)[Performance insights](#)[Snapshots](#)[Automated backups](#)[Reserved instances](#)[Proxies](#)[Subnet groups](#)[Parameter groups](#)[Option groups](#)[Custom engine versions](#)[Events](#)[Event subscriptions](#)[Recommendations](#) 0[Certificate update](#)**Try the new Amazon RDS Multi-AZ deployment option for MySQL and PostgreSQL**

For your Amazon RDS for MySQL and PostgreSQL workloads, improve transactional commit latencies by 2x, experience faster failover typically less than 35 seconds and, get read scalability with two readable standby DB instances by deploying the Multi-AZ DB cluster [Learn more](#)

[Create database](#)[Or, Restore Multi-AZ DB Cluster from Snapshot](#)**Resources**[Refresh](#)

You are using the following Amazon RDS resources in the US East (N. Virginia) region (used/quota)

DB Instances (0/40)

Allocated storage (0 TB/100 TB)

[Increase DB instances limit](#)**DB Clusters (0/40)****Reserved instances (0/40)****Snapshots (5)**

Manual

DB Cluster (0/100)

DB Instance (0/100)

Automated

DB Cluster (0)

DB Instance (5)

[Recent events \(0\)](#)[Event subscriptions \(0/20\)](#)**Parameter groups (1)**

Default (1)

Custom (0/100)

Option groups (1)

Default (1)

Custom (0/20)

Subnet groups (1/50)

Supported platforms VPC

Default network vpc-0b03f01cba75ff067

Recommended for you**Amazon RDS Backup and Restore using AWS Backup**

Learn how to backup and restore Amazon RDS databases using AWS Backup in just 10 minutes. [Learn more](#)

Implementing Cross-Region DR

Learn how to set up Cross-Region disaster recovery (DR) for Aurora PostgreSQL using an Aurora global database spanning multiple Regions. [Learn more](#)

Test Your DR Strategy in Minutes

Amazon Aurora Global Database now supports planned managed failover, making disaster recovery drills a breeze. [Learn more](#)

Migrate SSRS to RDS for SQL Server

Learn how you can migrate existing SSRS content to an Amazon RDS for SQL Server instance using a PowerShell module. [Learn more](#)

[Create database](#)**Additional information**



ⓘ We listened to your feedback!

Now, create a database with a single click using our pre-built configurations! Or choose your own configurations.

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](#)

Amazon Aurora



MySQL



MariaDB



PostgreSQL



Oracle



Microsoft SQL Server





Version

MariaDB 10.6.8



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](#)

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.

vaibhav-mariaDB



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.

admin

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](#)

[Feedback](#)

Looking for language selection? Find it in the new [Unified Settings](#)



aws

Services



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 password [Info](#)

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 instance class for the database engine.

Optimized for specific workloads.



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

Storage

Storage type [Info](#)

General Purpose SSD (gp2)

Baseline performance determined by volume size

Allocated storage

20

GiB

Minimum: 20 GiB. Maximum: 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.



Availability & durability

Multi-AZ deployment [Info](#)

- Create a standby instance (recommended for production usage)
Creates a standby in a different Availability Zone (AZ) to provide data redundancy, eliminate I/O freezes, and minimize latency spikes during system backups.
- Do not create a standby instance

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.

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

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

Default VPC (vpc-0b03f01cba75ff067)



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-vpc-0b03f01cba75ff067





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

Existing VPC security groups

Choose one or more options

default

Availability Zone Info

No preference

▼ Additional configuration

Database port Info

TCP/IP port that the database will use for application connections.

3306

Database authentication

Database authentication options Info



aws

Services



Database authentication

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.

Monitoring

Monitoring

Enable Enhanced monitoring

Enabling Enhanced monitoring metrics are useful when you want to see how different processes or threads use the CPU.

▼ Additional configuration

Database options, encryption turned on, backup turned on, backtrack turned off, maintenance, CloudWatch Logs, delete protection turned off.

Database options

Initial database name [Info](#)

Vaibhav_Database_01

If you do not specify a database name, Amazon RDS does not create a database.

DB parameter group [Info](#)

default.mariadb10.6



▼ Additional configuration

Database options, encryption turned off, backup turned off, backtrack turned off, maintenance, CloudWatch Logs, delete protection turned off.

Database options

Initial database name [Info](#)

Vaibhav_Database_01

If you do not specify a database name, Amazon RDS does not create a database.

DB parameter group [Info](#)

default.mariadb10.6

Option group [Info](#)

default:mariadb-10-6

Backup

Enable automated backups

Creates a point-in-time snapshot of your database

Encryption

Enable encryption

Choose to encrypt the given instance. Master key IDs and aliases appear in the list after they have been created using the AWS Key Management Service console. [Info](#)



Log exports

Select the log types to publish to Amazon CloudWatch Logs

- Audit log
- Error log
- General log
- Slow query log



IAM role

The following service-linked role is used for publishing logs to CloudWatch Logs.

RDS service-linked role

i Ensure that general, slow query, and audit logs are turned on. Error logs are enabled by default. [Learn more](#)

Maintenance

Auto minor version upgrade [Info](#)

Enable auto minor version upgrade

Enabling auto minor version upgrade will automatically upgrade to new minor versions as they are released. The automatic upgrades occur during the maintenance window for the database.

Maintenance window [Info](#)

Select the period you want pending modifications or maintenance applied to the database by Amazon RDS.

Choose a window

No preference

Deletion protection

Enable deletion protection

Protects the database from being deleted accidentally. While this option is enabled, you can't delete the database.

Estimated monthly costs

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. [\[\]](#)

Auto minor version upgrade Info

Enable auto minor version upgrade

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- 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

Successfully created database **vaibhav-mariadb**

[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
vaibhav-mariadb	Instance	MariaDB	us-east-1f	db.t3.micro	<input checked="" type="checkbox"/> Available	-	-	none

ALL IMAGES VIDEOS MAPS NEWS SHOPPING

2,41,00,00,000 Results

Date ▾



XAMPP

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XAMPP Control Panel v3.3.0

Modules
Service

Module PID(s) Port(s) Actions

	Apache		Start	Admin	Config	Logs
	MySQL	3704	Stop	Admin	Config	Logs
			Start	Admin	Config	Logs
	Mercury		Start	Admin	Config	Logs
	Tomcat		Start	Admin	Config	Logs



```

5.16.56 PM [main] Initializing Control Panel
5.16.56 PM [main] Windows Version: Home 64-bit
5.16.56 PM [main] XAMPP Version: 7.4.30
5.16.56 PM [main] Control Panel Version: 3.3.0 [ Compiled: Apr 6th 2021 ]
5.16.56 PM [main] You are not running with administrator rights! This will work for
5.16.56 PM [main] most application stuff but whenever you do something with services
5.16.56 PM [main] there will be a security dialogue or things will break! So think
5.16.56 PM [main] about running this application with administrator rights!
5.16.56 PM [main] XAMPP Installation Directory: "c:\xampp\"
5.16.56 PM [main] Checking for prerequisites
5.17.24 PM [main] All prerequisites found
5.17.24 PM [main] Initializing Modules
5.17.24 PM [main] Starting Check-Timer
5.17.24 PM [main] Control Panel Ready
5.17.40 PM [mysql] Attempting to start MySQL app...
5.17.41 PM [mysql] Status change detected: running
5.17.42 PM [mysql] Attempting to stop MySQL app...
5.17.42 PM [mysql] Status change detected: stopped
5.23.48 PM [mysql] Attempting to start MySQL app...
5.23.48 PM [mysql] Status change detected: running

```



Type here to search



XAMPP for Windows - mysql -u root -p

Setting environment for using XAMPP for Windows.

Lenovo@DESKTOP-582PCMJ c:\xampp

mysql -u root -p

Enter password:

Welcome to the MariaDB monitor. Commands end with ; or \g.

Your MariaDB connection id is 8

Server version: 10.4.25-MariaDB mariadb.org binary 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.

MariaDB [(none)]>

XAMPP for Windows - mysql -u root -p

Setting environment for using XAMPP for Windows.

Lenovo@DESKTOP-582PCMJ c:\xampp

mysql -u root -p

Enter password:

Welcome to the MariaDB monitor. Commands end with ; or \g.

Your MariaDB connection id is 8

Server version: 10.4.25-MariaDB mariadb.org binary 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.

MariaDB [(none)]> show databases;

Database
information_schema
mysql
performance_schema
phpmyadmin
test

5 rows in set (0.054 sec)

MariaDB [(none)]> _

SuccessFully created database **vaibhav-mariadb**

RDS > Databases > vaibhav-mariadb

vaibhav-mariadb

Summary

DB identifier	CPU	Status
vaibhav-mariadb	<div style="width: 100px; height: 10px; background-color: #ccc; border: 1px solid #ccc; position: relative;"><div style="width: 14.5%; height: 100%; position: absolute; left: 0; top: 0; background-color: #0070C0;"></div></div> 1.45%	<input checked="" type="checkbox"/> Available
Role	Current activity	Engine
Instance	<div style="width: 100px; height: 10px; background-color: #ccc; border: 1px solid #ccc; position: relative;"><div style="width: 0%; height: 100%; position: absolute; left: 0; top: 0; background-color: #0070C0;"></div></div> 0 Connections	MariaDB

Connectivity & security

Monitoring

Logs & events

Configuration

Maintenance & backups

Connectivity & security

Endpoint & port

Endpoint

vaibhav-mariadb.cbzyhishcuds.us-east-1.rds.amazonaws.com

Port

3306

Networking

Availability Zone

us-east-1f

VPC

vpc-0b03f01cba75ff067

Subnet group

default-vpc-0b03f01cba75ff067

Setting environment for using XAMPP for Windows.

Lenovo@DESKTOP-582PCMJ c:\xampp

mysql -h vaibhav-mariadb.cbzyhishcuds.us-east-1.rds.amazonaws.com -u admin -P 3306 -p

Enter password: *****

Welcome to the MariaDB monitor. Commands end with ; or \g.

Your MariaDB connection id is 130

Server version: 10.6.8-MariaDB managed by https://aws.amazon.com/rds/

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> show databases;

Database
Vaibhav_Database_01
information_schema
innodb
mysql
performance_schema
sys

6 rows in set (0.211 sec)

MariaDB [(none)]>