

Creating a MySQL DB Instance via Relational Database Service

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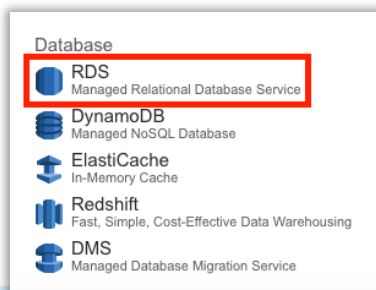
Overview

The easiest way to create a DB instance is to use the AWS Management Console. Once you have created the DB instance, you can use standard MySQL utilities such as MySQL Workbench to connect to a database on the DB instance.

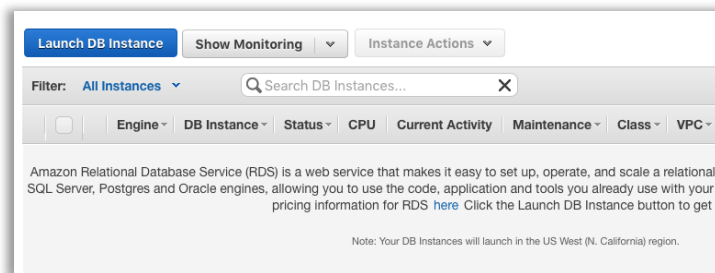
Creating a MySQL DB Instance

The basic building block of Amazon RDS is the DB instance. This is the environment in which you will run your MySQL databases.

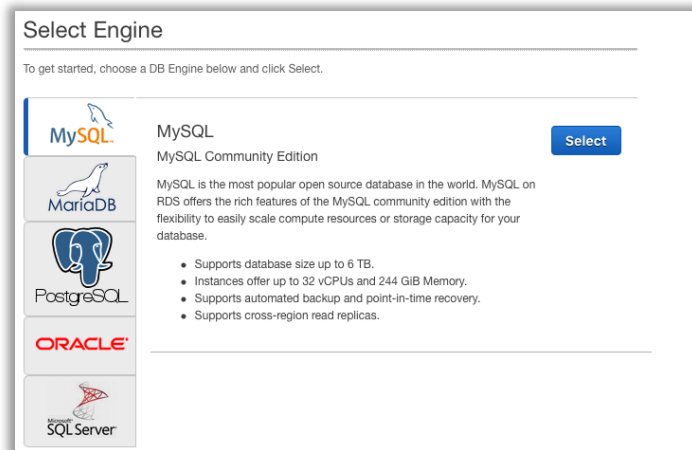
1. Click **RDS** within Database section on AWS Management Console.



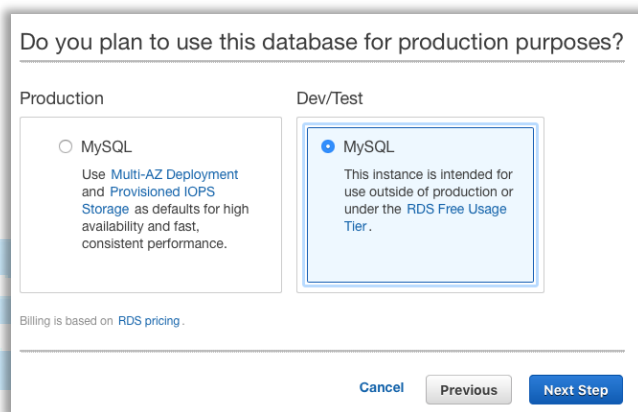
2. Choose **Launch DB Instance**. The Launch DB Instance Wizard opens on the **Select Engine** page.



3. On the **Select Engine** page, choose the **MySQL** icon and then choose **Select** for the MySQL DB engine.



4. Since this deployment is for the lab purpose only, therefore you would be selecting **Dev/Test** option and click **Next Step**.



5. On the **Specify DB Details** page, specify your DB instance information
- **License Model**: Choose the default, **general-public-license**, to use the general license agreement for MySQL. MySQL has only one license model.
 - **DB Engine Version**: Choose the default version of MySQL. Note that Amazon RDS supports multiple versions of MySQL in some regions.
 - **DB Instance Class**: Choose **db.t2.micro**.
 - **Multi-AZ Deployment**: For development and testing, you can choose No.
 - **Allocated Storage**: Type **5** to allocate 5 GB of storage for your database. In some cases, allocating a higher amount of storage for your DB instance than the size of your database can improve I/O performance.
 - **Storage Type**: Choose the storage type **Magnetic**
 - **DB Instance Identifier**: Type a name for the DB instance that is unique for your account in the region you chose.

- **Master Username:** Type a name using alphanumeric characters that you will use as the master user name to log on to your DB instance. This will be the user name you use to log on to your database on the DB instance for the first time.
- **Master Password** and **Confirm Password:** This will be the password you will use when you use the user name to log on to your database. Then type the password again in the **Confirm Password** box.

DB Engine: mysql

License Model: general-public-license

DB Engine Version: 5.6.27

Review the **Known Issues/Limitations** to learn about potential compatibility issues with specific database versions.

DB Instance Class: db.t2.micro — 1 vCPU, 1 GiB RAM

Multi-AZ Deployment: Yes

Storage Type: Magnetic

Allocated Storage*: 5 GB

Settings

DB Instance Identifier*: us-west1-dbinstance1

Master Username*: rhnarora84

Master Password*:

Confirm Password*:

Retype the value you specified for Master Password.

* Required

Cancel Previous Next Step

6. Click **Next Step**.
7. On the **Configure Advanced Settings** page, provide additional information that RDS needs to launch the MySQL DB instance.
 - **VPC:** Choose the name of the Virtual Private Cloud (VPC) that will host your MySQL DB instance.
 - **Availability Zone:** Determine if you want to specify a particular Availability Zone. If you chose **Yes** for the Multi-AZ Deployment parameter on the previous page, you will not have any options here.
 - **DB Security Groups:** Choose the security group you want to use with this DB instance.
 - **Database Name:** Leave the default value of **3306** unless you have a specific port you want to access the database through. MySQL installations default to port 3306.
 - **DB Parameter Group:** Leave the default value unless you created your own DB parameter group.

- **Option Group:** Choose the default value because this option group is used with the MySQL version you chose on the previous page.
- **Copy Tags To Snapshots:** Choose this option to have any DB instance tags copied to a DB snapshot when you create a snapshot.
- **Backup Retention Period:** Set the number of days you want automatic backups of your database to be retained. For testing purposes, you can set this value to **1**.
- **Backup Window:** Unless you have a specific time that you want to have your database backup, use the default of **No Preference**.
- **Enable Enhanced Monitoring:** Unless you want to enable gathering metrics in real time for the operating system that your DB instance runs on, use the default of **No**.
- **Auto Minor Version Upgrade:** Choose **Yes** to enable your DB instance to receive minor DB engine version upgrades automatically when they become available.
- **Maintenance Window:** Choose the 30-minute window in which pending modifications to your DB instance are applied. If you the time period doesn't matter, choose **No Preference**.

Configure Advanced Settings

Network & Security

VPC* Default VPC (vpc-1771e672)

Subnet Group default

Publicly Accessible Yes

Availability Zone No Preference

VPC Security Group(s) Apache Web Server SG (VPC), Aricent ELB SG (VPC), AutoScaling-Security-Group-1 (VPC), DB SG (VPC)

Database Options

Database Name rhnarora84

Note: if no database name is specified then no initial MySQL database will be created on the DB Instance.

Database Port 3306

DB Parameter Group default.mysql5.6

Option Group default:mysql-5-6

Copy Tags To Snapshots ☒

Select the DB option group that enables any optional functionality you want the DB instance to support, such as Oracle or SQL Server data encryption, or MySQL 5.6 memcached support. [Learn](#)

Copy Tags To Snapshots ☒

Enable Encryption No

Backup

Please note that automated backups are currently supported for InnoDB storage engine only. If you are using MyISAM, refer to detail [here](#).

Backup Retention Period 1 days

Backup Window No Preference

Monitoring

Enable Enhanced Monitoring No

Maintenance

Auto Minor Version Upgrade Yes

Maintenance Window No Preference

* Required

Cancel Previous **Launch DB Instance**

8. Click [Launch DB Instance](#).
9. Click [View Your DB Instances](#).

✓ Your DB Instance is being created.

Note: Your instance may take a few minutes to launch.

Connecting to your DB Instance

You will be unable to connect to your database instance unless you have previously authorized access on your chosen security group.

[Go to the Security Groups Page](#)

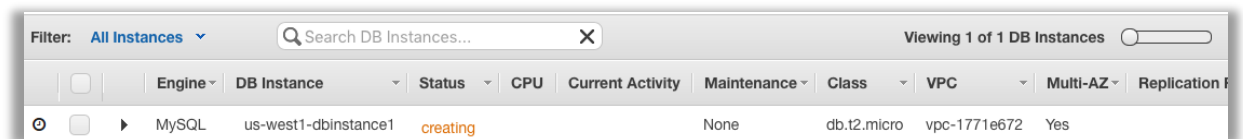
Related AWS Services

Amazon ElastiCache
Add a managed Memcached or Redis-compatible in-memory cache to speed up your database access.

[Click here to learn more and launch your Cache Cluster](#)

View Your DB Instances

10. On the RDS console, the new DB instance appears in the list of DB instances. The DB instance will have a status of **creating** until the DB instance is created and ready for use. When the state changes to **available**, you can connect to a database on the DB instance. Depending on the DB instance class and store allocated, it could take several minutes for the new DB instance to become available.



The screenshot shows the AWS RDS console interface. At the top, there is a filter set to 'All Instances' and a search bar. Below the header, a table lists the DB instances. The table has columns for Engine, DB Instance, Status, CPU, Current Activity, Maintenance, Class, VPC, Multi-AZ, and Replication. A single instance is listed with the following details:

Engine	DB Instance	Status	CPU	Current Activity	Maintenance	Class	VPC	Multi-AZ	Replication
MySQL	us-west1-dbinstance1	creating			None	db.t2.micro	vpc-1771e672	Yes	

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