

# AWS(cloud) EC2+RDS

The screenshot displays the AWS Management Console interface. At the top, the browser address bar shows the URL: `us-east-1.console.aws.amazon.com/console/home?region=us-east-1#`. The console header includes the AWS logo, a 'Services' button, and a search bar containing the text 'rds'. On the left sidebar, a list of resource categories is visible: Services (13), Features (29), Resources (with a 'New' badge), Blogs (1,796), Documentation (14,479), Knowledge Articles (15), Tutorials (17), Events (42), and Marketplace (476). The main content area, titled 'Search results for 'rds'', is divided into two sections: 'Services' and 'Features'. The 'Services' section lists three items: 'RDS' (Managed Relational Database Service), 'AWS FIS' (Improve resiliency and performance with controlled experiments), and 'Database Migration Service' (Managed Database Migration Service). The 'Features' section lists 'Reserved instances' and 'Proxies', both identified as 'RDS feature'. Each item in the lists includes an icon, a star for favorites, and a link to 'See all' results. A vertical scrollbar is visible on the right side of the main content area.

Search results for 'rds'

**Services** [See all 13 results ▶](#)

- RDS** ☆  
Managed Relational Database Service
- AWS FIS** ☆  
Improve resiliency and performance with controlled experiments.
- Database Migration Service** ☆  
Managed Database Migration Service
- Amazon OpenSearch Service** ☆  
Run open-source OpenSearch or Elasticsearch using Managed Clusters or Serverless ...

**Features** [See all 29 results ▶](#)

- Reserved instances**  
 RDS feature
- Proxies**  
 RDS feature
- Databases**

Create database - RDS Management

us-east-1.console.aws.amazon.com/rds/home?region=us-east-1#launch-dbinstance:gdb=false;isHermesCreate=true;s3-import=f

aws

Services

Search

[Alt+S]

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

☒ 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


☐ Aurora (MySQL Compatible)



☐ Aurora (PostgreSQL Compatible)



☒ MySQL



▼ Hide filters

- ☐ Show versions that support the Multi-AZ DB cluster [Info](#)  
Create a Multi-AZ DB cluster with one primary DB instance and two readable standby DB instances. Multi-AZ DB clusters provide up to 2x faster transaction commit latency and automatic failover in typically under 35 seconds.
- ☐ Show versions that support the Amazon RDS Optimized Writes [Info](#)  
Amazon RDS Optimized Writes improves write throughput by up to 2x at no additional cost.

Engine Version

MySQL 8.0.32 ▼

## 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.

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.

☐ **Manage master credentials in AWS Secrets Manager**

Manage master user credentials in Secrets Manager. RDS can generate a password for you and manage it throughout its lifecycle.

 If you manage the master user credentials in Secrets Manager, some RDS features aren't supported.

[Learn more](#) 

☐ **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](#)

## Instance configuration

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



### Amazon RDS Optimized Writes - *new* [Info](#)



Show instance classes that support Amazon RDS Optimized Writes

DB instance class [Info](#)

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

db.t2.micro

1 vCPUs 1 GiB RAM Not EBS Optimized



☐ Include previous generation classes

## Storage

Storage type [Info](#)

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

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

1000

GiB

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

firstdb

Summary			
DB identifier firstdb	CPU <div><div></div></div> 4.17%	Status ✔ Available	Class db.t2.micro
Role Instance	Current activity <div><div></div></div> 0 Connections	Engine MySQL Community	Region & AZ us-east-1f

- Connectivity & security
- Monitoring
- Logs & events
- Configuration
- Maintenance & backups
- Tags

Connectivity & security		
Endpoint & port	Networking	Security
Endpoint firstdb.cipiaxdndu2l.us-east-1.rds.amazonaws.com	Availability Zone us-east-1f	VPC security groups <a href="#">default (sg-0edc79ca75c2c1e0e)</a> ✔ Active
Port 3306	VPC <a href="#">vpc-09407bf0cef513e1d</a>	Publicly accessible Yes
	Subnet group default-vpc-09407bf0cef513e1d	Certificate authority <a href="#">Info</a> rds-ca-2019
	Subnets <a href="#">subnet-09b71c5dcba0547f2</a> <a href="#">subnet-05cc07256fe0c64b8</a> <a href="#">subnet-09bbcd96daa56f63d</a> <a href="#">subnet-02e1bad693ad3dc60</a> <a href="#">subnet-00efab575134a5790</a>	Certificate authority date August 22, 2024, 22:38 (UTC+05:30)
		DB instance certificate expiration date August 22, 2024, 22:38 (UTC+05:30)

Security group rules (2)		
<div>Filter by security group rules</div>		
Security group	Type	Rule
<a href="#">default (sg-0edc79ca75c2c1e0e)</a>	EC2 Security Group - Inbound	sg-0edc79ca75c2c1e0e
<a href="#">default (sg-0edc79ca75c2c1e0e)</a>	CIDR/IP - Outbound	0.0.0.0/0

Replication (1)						
<div>Filter by replication</div>						
DB identifier	Role	Region & AZ	Replication source	Replication state	Lag	
<a href="#">firstdb</a>	Instance	us-east-1f	-	-	-	

Proxies (0)		
<div>Filter by proxies</div>		
Proxy identifier	Status	Engine family
No proxies You don't have any proxies. <div>Create proxy</div>		

**Inbound security group rules successfully modified on security group (sg-0edc79ca75c2c1e0e | default)**

Details

Security Groups (1/9) Info

Filter security groups

	Name	Security group ID	Security group name	VPC ID	Description	Owner	Inbound rules count	Outbound rules count
<input type="checkbox"/>	-	sg-45f0c0e9u3m0r2a	launch-wizard-3	vpc-09407b0cef513e1d	launch-wizard-3 create...	873053002696	1 Permission entry	1 Permission entry
<input type="checkbox"/>	-	sg-0fd7d71e920318f2b	launch-wizard-6	vpc-09407b0cef513e1d	launch-wizard-6 create...	873053002696	3 Permission entries	1 Permission entry
<input type="checkbox"/>	-	sg-0c8f8d9e5e240057	launch-wizard-2	vpc-09407b0cef513e1d	launch-wizard-2 create...	873053002696	1 Permission entry	1 Permission entry
<input checked="" type="checkbox"/>	-	sg-0edc79ca75c2c1e0e	default	vpc-09407b0cef513e1d	default VPC security gr...	873053002696	2 Permission entries	1 Permission entry

sg-0edc79ca75c2c1e0e - default

Details Inbound rules Outbound rules Tags

You can now check network connectivity with Reachability Analyzer [Run Reachability Analyzer](#)

Inbound rules (2)

Filter security group rules

	Name	Security group rule...	IP version	Type	Protocol	Port range	Source	Description
<input type="checkbox"/>	-	sg-0e681808f0d1756f2	-	All traffic	All	All	sg-0edc79ca75c2c1e0...	-
<input type="checkbox"/>	-	sg-0cc0f1caa6fb4c1d3	IPv4	All traffic	All	All	0.0.0.0/0	-

## MySQL Workbench



### Successfully made the MySQL connection

Information related to this connection:

Host: mydb.cipiaxdndu2l.us-east-1.rds.amazonaws.com

Port: 3306

User: root

SSL: enabled with TLS\_AES\_256\_GCM\_SHA384

A successful MySQL connection was made with the parameters defined for this connection.

OK

# Welcome to MySQL Workbench

MySQL Workbench is the official graphical user interface (GUI) tool for MySQL. It allows you to design, create and browse your database schemas, work with database objects and insert data as well as design and run SQL queries to work with stored data. You can also migrate schemas and data from other database vendors to your MySQL database.

[Browse Documentation >](#)


[Read the Blog >](#)


[Discuss on the Forums >](#)

## MySQL Connections





Local instance MySQL80

 root

 localhost:3306

aws

 root

 mydb.cipiaxdndu2l.us-east-1.rds.am...

The screenshot shows the AWS Data console interface. The top navigation bar includes 'File', 'Edit', 'View', 'Query', 'Database', 'Server', 'Tools', 'Scripting', and 'Help'. The left sidebar has a 'SCHEMAS' section with a search filter 'Filter objects' and a list of schemas: 'sys'. The main area displays a SQL query: 'show databases;', 'create database infobell;', and 'show databases;'. The bottom section shows the 'Result Grid' with a table listing databases: 'infobell', 'information\_schema', 'mysql', 'performance\_schema', and 'sys'.

Database
infobell
information_schema
mysql
performance_schema
sys