

Screenshot of the Amazon RDS Resources page:

Amazon RDS

Resources

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)
 - Instances and storage include Neptune and DocumentDB. [Increase DB instances limit](#)
- DB Clusters (0/40)**
- Reserved Instances (0/40)**
- Snapshots (2)**
 - Manual
 - DB Cluster (1/100)
 - DB Instance (1/100)
 - Automated
 - DB Cluster (0)
 - DB Instance (0)
- Recent events (0)**
- Event subscriptions (0/20)**

Parameter groups (3)

- Default (3)
- Custom (0/100)

Option groups (2)

- Default (2)
- Custom (0/20)

Subnet groups (1/50)

Supported platforms VPC

Default network vpc-082939a3ed23f7468

Create database

Amazon Relational Database Service (RDS) makes it easy to set up, operate, and scale a relational database in the cloud.

You can use a backup from Amazon S3 to restore and create a new Aurora MySQL and MySQL database.

[Create database](#) [Restore from S3](#)

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Create databases

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.

Configuration

Engine type [Info](#)

<input type="radio"/> Aurora (MySQL Compatible) 	<input type="radio"/> Aurora (PostgreSQL Compatible) 	<input type="radio"/> MySQL
<input type="radio"/> MariaDB 	<input type="radio"/> PostgreSQL 	<input type="radio"/> Oracle
<input checked="" type="radio"/> Microsoft SQL Server 		

Microsoft SQL Server

SQL Server is a relational database management system developed by Microsoft. Amazon RDS for SQL Server makes it easy to set up, operate, and scale SQL Server deployments in the cloud. With Amazon RDS, you can deploy multiple editions of SQL Server including Express, Web, Standard and Enterprise, in minutes with cost-efficient and re-sizeable compute capacity.

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Click on Easy Create. My SQL server

Choose Db instance size

The screenshot shows the 'Create DB Instance' wizard on the AWS RDS service. The current step is 'Choose Db instance size'. On the left, there are two options: 'Production' (db.r5.xlarge) and 'Dev/Test' (db.m5.large). The 'Dev/Test' option is selected. The 'db.m5.large' configuration includes 2 vCPUs, 8 GB RAM, 100 GB storage, and a price of 0.993 USD/hour. Below this, the 'DB instance identifier' field contains 'database-1'. The 'Master username' field is set to 'admin'. Under 'Credentials management', the 'Self managed' option is selected, which allows creating your own password or having RDS generate one. The 'Auto generate password' checkbox is unchecked. The 'Master password' field is empty. A note at the bottom indicates that the password must be at least 8 characters long and cannot contain symbols like /, ", and @. The right side of the screen displays a 'Microsoft SQL Server' informational card with details about the database management system.

Choose self-managed password

The screenshot shows the 'Create DB Instance' wizard on the AWS RDS service. The current step is 'Choose self-managed password'. The 'DB instance identifier' field contains 'database-1'. The 'Master username' field is set to 'admin'. Under 'Credentials management', the 'Self managed' option is selected. The 'Auto generate password' checkbox is unchecked. The 'Master password' field is empty, and the 'Password strength' indicator shows 'Weak'. A note at the bottom states that minimum constraints are at least 8 printable ASCII characters and no specific symbols are allowed. The right side of the screen displays a 'Microsoft SQL Server' informational card with details about the database management system.

Click on Create Database.

Download SQL Server Management Studio SSMS

<https://learn.microsoft.com/en-us/sql/ssms/download-sql-server-management-studio-ssms?view=sql-server-ver16>

For Mac -

To install SQL Server Management Studio (SSMS) on macOS using Homebrew, you'll run into an issue—SSMS is only available for Windows, and there isn't a direct macOS version. However, you can install a SQL Server client alternative like Azure Data Studio, which is a cross-platform database management tool developed by Microsoft.

Here's how you can install **Azure Data Studio** on macOS using Homebrew:

1. Open your terminal.
2. Install Azure Data Studio with Homebrew using the following command:

```
brew install --cask azure-data-studio
```

Azure Data Studio has a similar feature set to SSMS and works well with SQL Server databases on macOS.

The screenshot shows the Amazon RDS console with the following details:

Left Sidebar:

- Dashboard**
- Databases
- Query Editor
- Performance insights
- Snapshots
- Exports in Amazon S3
- Automated backups
- Reserved instances
- Proxies
- Subnet groups
- Parameter groups
- Option groups
- Custom engine versions
- Zero-ETL integrations New
- Events
- Event subscriptions
- Recommendations 0
- Certificate update

Top Bar:

- Search bar: [Option+S]
- N. Virginia ▾
- ShailAdmin ▾

Main Content Area:

Summary:

DB identifier	Status	Role	Engine	Recommendations
database-1	Available	Instance	SQL Server Standard Edition	
CPU	Class db.m5.large	Current activity	Region & AZ us-east-1f	

Navigation: Connectivity & security | Monitoring | Logs & events | Configuration | Maintenance & backups | Tags | Recommendations

Connectivity & security:

Endpoint & port	Networking	Security
Endpoint database-1.criq6ig60iu.us-east-1.rds.amazonaws.com	Availability Zone us-east-1f	VPC security groups default (sg-0471e51c0a9421150) Active
Port 1433	VPC vpc-082939a3ed23f7468	Publicly accessible No
	Subnet group default-vpc-082939a3ed23f7468	Certificate authority <small>Info</small>

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Go to workbench

The screenshot shows the Azure Data Studio welcome screen with the following interface elements:

Left Sidebar:

- Welcome
- Recent
- Browse
- Cloud
- File
- Folder
- Database
- Table
- View
- Query
- Notebook
- Script
- Log
- Profile
- Help

Center:

Azure Data Studio

New | Open...

Create a connection | Run a query | Create a notebook

Right Side:

Connection:

Recent | Browse

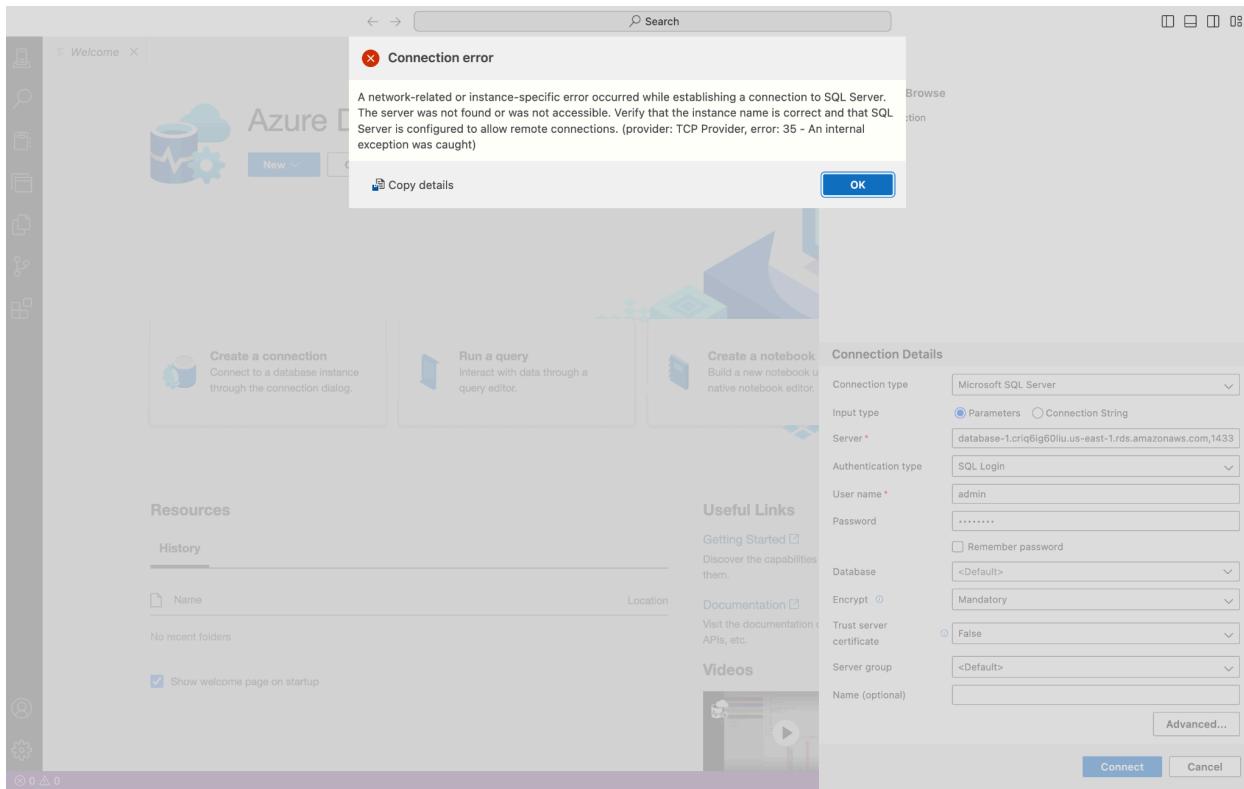
No recent connection

Connection Details:

Connection type	Microsoft SQL Server
Input type	<input checked="" type="radio"/> Parameters <input type="radio"/> Connection String
Server *	database-1.criq6ig60iu.us-east-1.rds.amazonaws.com,1433
Authentication type	SQL Login
User name *	admin
Password
<input type="checkbox"/> Remember password	
Database	<Default>
Encrypt	Mandatory
Trust server certificate	<input checked="" type="radio"/> False
Server group	<Default>
Name (optional)	

Bottom:

Advanced... | Connect | Cancel



Check Public accessible option

The screenshot shows the Amazon RDS console for the database-1 instance. The left sidebar includes options like Dashboard, Databases, Query Editor, Performance insights, Snapshots, Exports in Amazon S3, Automated backups, Reserved instances, Proxies, Subnet groups, Parameter groups, Option groups, Custom engine versions, Zero-ETL integrations, Events, Event subscriptions, Recommendations (0), and Certificate update. The main area shows the 'Summary' of the database-1 instance. Key details include:

- DB identifier:** database-1
- Status:** Available
- Role:** Instance
- Engine:** SQL Server Standard Edition
- Region & AZ:** us-east-1f

The 'Connectivity & security' tab is selected. It displays the following information:

- Endpoint & port:** Endpoint copied (highlighted in green)
- Networking:** Availability Zone: us-east-1f, VPC: vpc-082939a3ed23f7468, Port: 1433, Subnet group: default-vpc-082939a3ed23f7468
- Security:** VPC security groups: default sg-0471e51c0a9421150 (Active), Publicly accessible: No, Certificate authority: rds-ca-rsa2048-g1

Other tabs available include Monitoring, Logs & events, Configuration, Maintenance & backups, Tags, and Recommendations.

Click on Modify

The screenshot shows the AWS RDS console for a database named "database-1". The left sidebar includes links for Dashboard, Databases, Query Editor, Performance insights, Snapshots, Exports in Amazon S3, Automated backups, Reserved instances, Proxies, Subnet groups, Parameter groups, Option groups, Custom engine versions, Zero-ETL integrations, Events, Event subscriptions, Recommendations (0), and Certificate update. The main area displays the "Summary" tab, which provides details like DB identifier, Status (Available), Role (Instance), Engine (SQL Server Standard Edition), and Region & AZ (us-east-1f). Below the summary is the "Connectivity & security" tab, which is currently selected. It shows the endpoint (database-1.criq6ig60liu.us-east-1.rds.amazonaws.com) and port (1433). The networking section indicates the VPC (vpc-082939a3ed23f7468) and subnet group (default-vpc-082939a3ed23f7468). The security section shows the VPC security group (default sg-0471e51c0a9421150) is active. A tooltip "Endpoint copied" is visible over the endpoint field.

Under connectivity > Additional Configuration.
Publicly accessible.

The screenshot shows the "Additional configuration" section of the RDS instance configuration. Under "Public access", the "Publicly accessible" option is selected, while "Not publicly accessible" is unselected. The "Database port" is set to 1433. Other sections visible include "DB subnet group" (set to default-vpc-082939a3ed23f7468), "Security group" (choose security groups dropdown with "default" selected), and "Certificate authority" (rds-ca-rsa2048-g1 selected, info link available).

Click on Continue

Summary of modifications
You are about to submit the following modifications. Only values that will change are displayed. Carefully verify your changes and click Modify DB Instance.

Attribute	Current value	New value
Public accessibility	No	Yes

Schedule modifications

When to apply modifications

Apply during the next scheduled maintenance window
Current maintenance window: September 21, 2024 11:16 - 11:46 (UTC+5.5:00)

Apply immediately
The modifications in this request and any pending modifications will be asynchronously applied as soon as possible, regardless of the maintenance window setting for this database instance.

Cancel Back **Modify DB instance**

Click on Modify DB instance

Check Status

Amazon RDS

RDS > Databases > database-1

database-1

Summary

DB identifier	Status	Role	Engine	Recommendations
database-1	Modifying	Instance	SQL Server Standard Edition	
CPU	Class	Current activity	0.00 sessions	
5.41%	db.m5.large			
		Region & AZ	us-east-1f	

Connectivity & security **Monitoring** **Logs & events** **Configuration** **Maintenance & backups** **Tags** **Recommendations**

Connectivity & security

Endpoint & port	Networking	Security
Endpoint database-1.criq6ig60iu.us-east-1.rds.amazonaws.com	Availability Zone us-east-1f	VPC security groups default (sg-0471e51c0a9421150) Active
Port 1433	VPC vpc-082939a3ed23f7468	Publicly accessible No
	Subnet group default-vpc-082939a3ed23f7468	Certificate authority Info

Go to security group.

AWS Services Search [Option+S] N. Virginia ShallAdmin

Amazon RDS

Databases Query Editor Performance insights Snapshots Exports in Amazon S3 Automated backups Reserved instances Proxies Subnet groups Parameter groups Option groups Custom engine versions Zero-ETL integrations Events Event subscriptions Recommendations 0 Certificate update

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RDS > Databases > database-1

database-1

Actions Modify

Summary

DB identifier database-1	Status Available	Role Instance	Engine SQL Server Standard Edition	Recommendations
CPU 4.97%	Class db.m5.large	Current activity 0.00 sessions	Region & AZ us-east-1f	

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

Connectivity & security

Endpoint & port	Networking	Security
Endpoint database-1.criq6ig6oliu.us-east-1.rds.amazonaws.com	Availability Zone us-east-1f	VPC security groups default (sg-0471e51c0a9421150) Active
Port 1433	VPC vpc-082939a3ed23f7468	Publicly accessible Yes
	Subnet group default-vpc-082939a3ed23f7468	Certificate authority Info

AWS Services Search [Option+S] N. Virginia ShallAdmin

EC2

EC2 Dashboard EC2 Global View Events Console-to-Code Preview

Instances Instances Instance Types Launch Templates Spot Requests Savings Plans Reserved Instances Dedicated Hosts Capacity Reservations New

Images AMIs AMI Catalog

Elastic Block Store Volumes Snapshots Lifecycle Manager

Network & Security Security Groups

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EC2 > Security Groups > sg-0471e51c0a9421150

sg-0471e51c0a9421150 - default

Actions

Details

Security group name default	Security group ID sg-0471e51c0a9421150	Description default VPC security group	VPC ID vpc-082939a3ed23f7468
Owner 637423339839	Inbound rules count 3 Permission entries	Outbound rules count 1 Permission entry	

Inbound rules Outbound rules Tags

Inbound rules (3)

Name	Security group rule...	IP version	Type	Protocol	Port range
-	sgr-0016f8c5dda16722d	IPv4	SSH	TCP	22
-	sgr-0c3566efe6b665f9a	IPv4	HTTPS	TCP	443
-	sgr-051b97dc1d5c410...	IPv4	HTTP	TCP	80

Edit Inbound rules.

Screenshot of the AWS Management Console showing the 'Edit inbound rules' page for a security group. The table lists four existing rules and one new rule being added:

Security group rule ID	Type	Protocol	Port range	Source	Description - optional
sgr-0016f8c5dda16722d	SSH	TCP	22	Custom	0.0.0.0/0
sgr-0c3566efe6b665f9a	HTTPS	TCP	443	Custom	0.0.0.0/0
sgr-051b97dc1d5c410ed	HTTP	TCP	80	Custom	0.0.0.0/0
-	MSSQL	TCP	1433	Anywhere	0.0.0.0/0

Add rule

ModifyInboundSecurityGroupRules

Rules with source of 0.0.0.0/0 or ::/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

Add SQL port.

Screenshot of the Azure Data Studio interface showing a connection error dialog. The dialog states:

Connection error
A connection was successfully established with the server, but then an error occurred during the pre-login handshake. (provider: TCP Provider, error: 35 - An internal exception was caught)

Encryption was enabled on this connection, review your SSL and certificate configuration for the target SQL Server, or enable 'Trust server certificate' in the connection dialog.

Note: A self-signed certificate offers only limited protection and is not a recommended practice for production environments. Do you want to enable 'Trust server certificate' on this connection and retry? [Read More](#)

Enable Trust server certificate

The main interface shows a sidebar with 'Welcome', 'Create a connection', 'Run a query', and 'Create a notebook'. On the right, there's a 'Connection Details' panel with fields for Connection type (Microsoft SQL Server), Input type (Parameters), Server (selected), Authentication type (SQL Login), User name (admin), Password, and Encrypt (Mandatory). There's also a 'Connection Details' section for Database (<Default>), Trust server certificate (False), and Server group (<Default>).

Enable Trust server certificate

