

AGMC – Day 9

Ilma Nur Hidayati

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New EC2 Experience Tell us what you think

EC2 Dashboard EC2 Global View Events Tags Limits Instances Instances New Instance Types Launch Templates Spot Requests Savings Plans Reserved Instances New Dedicated Hosts Capacity Reservations Images AMIs New AMI Catalog

Key pair (login) Info You can use a key pair to securely connect to your instance.

Key pair name - required alterra_academy_aws

Network settings Info

Network Info vpc-05c1c6cc7f3f3c20e Subnet Info No preference (Default subnet in any availability zone)

Auto-assign public IP Info Enable Firewall (security groups) Info A security group is a set of firewall rules that control traffic to your instance. Create security group

Create key pair

Key pairs allow you to connect to your instance securely. Enter the name of the key pair below. When prompted, store the private key in a secure and accessible location on your computer. **You will need it later to connect to your instance.** Learn more

Key pair name Enter key pair name The name can include up to 255 ASCII characters. It can't include leading or trailing spaces.

Key pair type RSA RSA encrypted private and public key pair ED25519 ED25519 encrypted private and public key pair (Not supported for Windows instances)

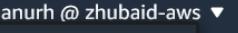
Private key file format .pem For use with OpenSSH .ppk For use with PuTTY

Cancel Create key pair

Launch instance

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Instances

- [Instances !\[\]\(89b1868d9a8000a1d9ec7a997bad1b32_img.jpg\)](#)
- [Instance Types](#)
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- [Savings Plans](#)
- [Reserved Instances !\[\]\(ed7cd38654992aa2e3bd3155f15f6eb1_img.jpg\)](#)
- [Dedicated Hosts](#)
- [Capacity Reservations](#)

Quick Start

Amazon Linux macOS Ubuntu Windows Red Hat SUSE

Amazon Machine Image (AMI)

Amazon Linux 2 AMI (HVM) - Kernel 4.14, SSD Volume Type  

ami-08326d8b49f61f528 (64-bit (x86)) / ami-092a9edb99da56077 (64-bit (Arm))
Virtualization: hvm ENA enabled: true Root device type: ebs

Description
Amazon Linux 2 AMI 2.0.20220912.1 x86_64 HVM gp2

Architecture  AMI ID
64-bit (x86) ami-08326d8b49f61f528 

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Instance type

Instance type

t2.micro Family: t2 1 vCPU On-Demand Linux pricing On-Demand Windows pricing

Key pair (login)

You can use a key pair instance.

Key pair name - required

Select

Enter the name of the key pair below. When prompted, store the private key in a secure and accessible location on your computer. **You will need it later to connect to your instance.** [Learn more](#)

Key pair name

agmc_aws

The name can include up to 255 ASCII characters. It can't include leading or trailing spaces.

Key pair type

RSA RSA encrypted private and public key pair

ED25519 ED25519 encrypted private and public key pair (Not supported for Windows instances)

Private key file format

.pem For use with OpenSSH

.ppk For use with PuTTY

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▼ Instance type

Instance type

t2.micro Family: t2 1 vCPU On-Demand Linux pricing On-Demand Windows p...

▼ Key pair (login)

You can use a key pair with your instance.

Key pair name - required Select

Enter the name of the key pair below. When prompted, store the private key in a secure and accessible location on your computer. You will need it later to connect to your instance. [Learn more](#)

Key pair name

alterra_academy_aws

The name can include up to 255 ASCII characters. It can't include leading or trailing spaces.

Key pair type

RSA RSA encrypted private and public key pair

ED25519 ED25519 encrypted private and public key pair (Not supported for Windows instances)

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.pem For use with OpenSSH

.ppk For use with PuTTY

Cancel Create key pair

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▼ Instance type [Info](#)

Instance type

t2.micro Family: t2 1 vCPU 1 GiB Memory Free tier eligible On-Demand Linux pricing: 0.0146 USD per Hour On-Demand Windows pricing: 0.0192 USD per Hour

Compare instance types

▼ Key pair (login) [Info](#)

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - required

alterra_academy_aws [Create new key pair](#)

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Description - required [Info](#)
launch-wizard-1 created 2022-09-25T05:49:28.760Z

Inbound security groups rules

Security group rule 1 (TCP, 22, 0.0.0.0/0)

Type [Info](#): ssh Protocol [Info](#): TCP Port range [Info](#): 22

Source type [Info](#): Custom Source [Info](#): Add CIDR, prefix list or security group
 e.g. SSH for admin desktop
 0.0.0.0/0

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

Add security group rule

Configure storage [Info](#)

Advanced

Number of instances [Info](#): 1

Software Image (AMI): Amazon Linux 2 AMI 2.0.2022091... [read more](#)

Virtual server type (instance type): t2.micro

Firewall (security group): New security group

Storage (volumes): 1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is

Cancel **Launch instance**

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Inbound security groups rules

Security group rule 1 (TCP, 22, 0.0.0.0/0)

Type Info Protocol Info Port range Info
ssh TCP 22

Source type Info Source Info Description - optional Info
Custom Add CIDR, prefix list or security e.g. SSH for admin desktop
0.0.0.0/0 X

Security group rule 2 (TCP, 80, Multiple sources)

Type Info Protocol Info Port range Info
HTTP TCP 80

Source type Info Source Info Description - optional Info
Custom Add CIDR, prefix list or security e.g. SSH for admin desktop
0.0.0.0/0 X ::/0 X

Summary

Number of instances Info 1

Software Image (AMI) Amazon Linux 2 AMI 2.0.2022091...read more ami-08326d8b49f61f528

Virtual server type (instance type) t2.micro

Firewall (security group) New security group

Storage (volumes) 1 volume(s) - 8 GiB

Free tiers in your first year include X

Cancel Launch instance

Talking:

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Add security group rule

Security group rule 1 (TCP, 22, 0.0.0.0/0)

Type [Info](#) Protocol [Info](#) Port range [Info](#)
ssh TCP 22

Source type [Info](#) Source [Info](#) Description - optional [Info](#)
Custom e.g. SSH for admin desktop
 X

Security group rule 2 (TCP, 80, Multiple sources)

Type [Info](#) Protocol [Info](#) Port range [Info](#)
HTTP TCP 80

Source type [Info](#) Source [Info](#) Description - optional [Info](#)
Custom e.g. SSH for admin desktop
 X X

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

Summary

Number of instances [Info](#)
1

Software Image (AMI)
Amazon Linux 2 AMI 2.0.2022091...[read more](#)
ami-08326d8b49f61f528

Virtual server type (instance type)
t2.micro

Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is available) X

Cancel Launch instance

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Screenshot of the AWS EC2 instance creation wizard.

Left Sidebar:

- New EC2 Experience (selected)
- EC2 Dashboard
- EC2 Global View
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Top Bar:

- Services
- Search bar: Search for services, features, blogs, docs, and more [Alt+S]
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Form Fields (Main Content Area):

- VPC - required** Info
vpc-034ea6d2e0650722b (default)
172.31.0.0/16
- Subnet Info**
No preference
- Create new subnet** Info
- Auto-assign public IP** Info
Enable
- Firewall (security groups) Info**
A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.
 Create security group Select existing security group
- Security group name - required**
agmcc-security-group
This security group will be added to all network interfaces. The name can't be edited after the security group is created. Max length is 255 characters. Valid characters: a-z, A-Z, 0-9, spaces, and _-:/()#@[]+=&;!\$*
- Description - required** Info
(allow HTTP, SSH) created 2022-09-25T05:49:28.760Z
- Inbound security groups rules**
 - Security group rule 1 (TCP, 22, 0.0.0.0/0)

Right Panel (Summary):

- Summary**
- Number of instances Info
1
- Software Image (AMI)
Amazon Linux 2 AMI 2.0.2022091... read more
ami-08326d8b49f61f528
- Virtual server type (instance type)
t2.micro
- Firewall (security group)
New security group
- Storage (volumes)
1 volume(s) - 8 GiB

Bottom Buttons:

- Cancel
- Launch instance

Callout: Talking: X

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

Add security group rule

Configure storage Advanced

1x 8 GiB gp2 Root volume

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage

Add new volume

0 x File systems Edit

Advanced details Info

Summary

Number of instances Info 1

Software Image (AMI) Amazon Linux 2 AMI 2.0.2022091...read more ami-08326d8b49f61f528

Virtual server type (instance type) t2.micro

Firewall (security group) New security group

Storage (volumes) 1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is

Cancel Launch instance

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New EC2 Experience Opt out to the old experience

You've been opted into the new launch experience. You can return to the previous version, but next time you log in, you'll automatically be opted into the new experience. [Find out more](#) or [send us feedback](#). Starting October 1, 2022, we will begin decommissioning the previous version.

EC2 Instances Launch an instance

Launching instance

Please wait while we launch your instance.
Do not close your browser while this is loading.

C Creating security group rules 23%

► Details

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Amazon RDS

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Subnet groups

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Option groups

Custom engine versions

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Recommendations

Create database

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

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

Note: your DB instances will launch in the Asia Pacific (Singapore) region

Service health

[View service health dashboard](#)

Current status	Details
Amazon Relational Database Service (Singapore)	Service is operating normally

Additional Information

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[Getting started with RDS](#)

[Overview and features](#)

[Documentation](#)

[Articles and tutorials](#)

[Data import guide for MySQL](#)

[Data import guide for Oracle](#)

[Data import guide for SQL Server](#)

[New RDS feature announcements](#)

[Pricing](#)

[Forums](#)

Database Preview Environment

Get early access to new DB engine versions, before they're generally available. The RDS database preview environment lets you work with upcoming beta, release candidate, and early production versions of PostgreSQL engines. Preview environment instances are fully functional and can be used for development, testing, and staging.

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Engine type [Info](#)

- Amazon Aurora
- MySQL
- MariaDB

- PostgreSQL
- Oracle
- Microsoft SQL Server

Edition

- MySQL Community

Known issues/limitations

Review the [Known issues/limitations](#) to learn about potential compatibility issues with specific database versions.

Version

MySQL 8.0.23

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Instance configuration

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.

alterra_academy

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.

root

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

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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 performance classes (includes t classes)

db.t2.micro
1 vCPU 1 GiB RAM Not EBS Optimized

Include previous generation classes

Talking:

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) Higher allocated storage can improve IOPS performance.

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
(Minimum: 22 GiB. Maximum: 6,144 GiB)

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Instance configuration
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Include previous generation classes

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General Purpose SSD (gp2)
Baseline performance determined by volume size ▾

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Talking:

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Amazon RDS

Storage

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Maximum storage threshold [Info](#)
Charges will apply when your database autoscales to the specified threshold
1000 GiB
Minimum: 22 GiB. Maximum: 6,144 GiB

Connectivity [Info](#)

Compute resource

Talking:

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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.

Network type Info
To use dual-stack mode, make sure that you associate an IPv6 CIDR block with a subnet in the VPC you specify.

IPv4
Your resources can communicate only over the IPv4 addressing protocol.

Dual-stack mode
Your resources can communicate over IPv4, IPv6, or both.

Virtual private cloud (VPC) Info
Choose the VPC. The VPC defines the virtual networking environment for this DB instance.

Default VPC (vpc-034ea6d2e0650722b) ▾

Only VPCs with a corresponding DB subnet group are listed.

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.

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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.

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
 X

Availability Zone [Info](#)

▼ Additional configuration

Database port [Info](#)
TCP/IP port that the database will use for application connections.

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Additional configuration

Database port [Info](#)
TCP/IP port that the database will use for application connections.

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.

Password and Kerberos authentication
Choose a directory in which you want to allow authorized users to authenticate with this DB instance using Kerberos Authentication.

Monitoring

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

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► Additional configuration Database options, backup turned on, backtrack turned off, maintenance, CloudWatch Logs, delete protection turned off.

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.](#)

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](#).

Info 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.

Create database Cancel

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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) Higher allocated storage can improve IOPS performance.

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
Minimum: 22 GiB. Maximum: 6,144 GiB

Connectivity [Info](#)

Feedback Looking for language selection? Find it in the new Unified Settings

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AWS Services Search for services, features, blogs, docs, and more [Alt+S] Singapore ilmanurh @ zhubaid-aws Talking:

Amazon RDS

Creating database alterradb
Your database might take a few minutes to launch.

RDS > Databases

Databases

Group resources C Modify Actions ▾ Restore from S3 Create database

Filter by databases < 1 > ⚙

DB identifier	Role	Engine	Region & AZ	Size	Status	CPU	Current act
alterradb	Instance	MySQL Community	-	db.t2.micro	Creating	-	-

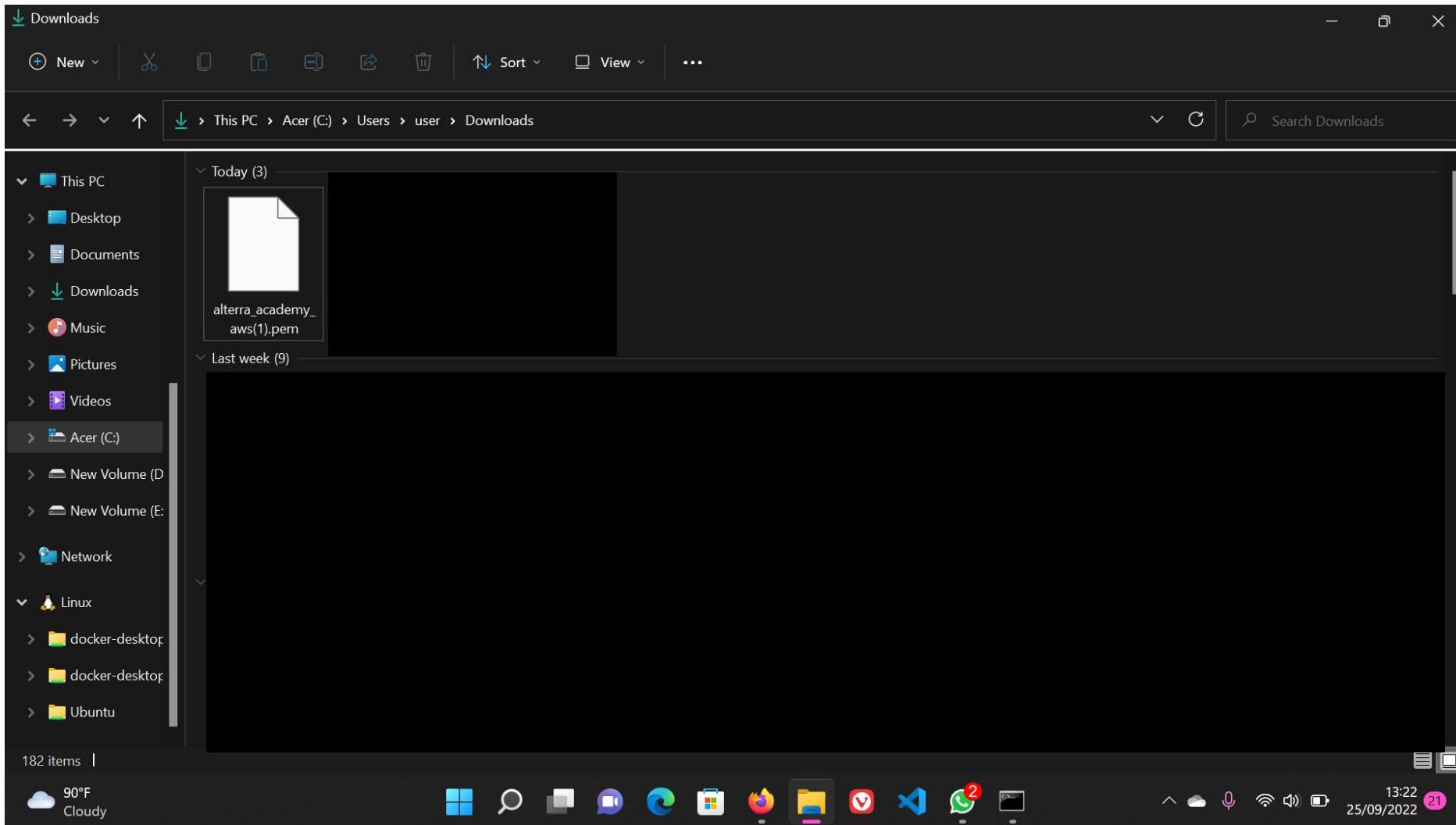
Subnet groups Parameter groups Option groups Custom engine versions

Events Event subscriptions

Feedback Looking for language selection? Find it in the new Unified Settings

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The screenshot shows the AWS Amazon RDS console. A modal at the top indicates that a database named 'alterradb' is being created, with a note that it might take a few minutes to launch. The main 'Databases' page is visible, featuring a table with columns for DB identifier, Role, Engine, Region & AZ, Size, Status, CPU, and Current action. The database 'alterradb' is listed with its details: Instance, MySQL Community, db.t2.micro, Creating, and - for CPU and Current action. The sidebar on the left provides navigation links for various RDS management tasks such as Dashboard, Databases, Query Editor, and Events. The bottom of the screen includes standard AWS footer links for Feedback, Unified Settings, Copyright notice, and Privacy/Terms/Cookie preferences.



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New EC2 Experience Tell us what you think

EC2 Dashboard EC2 Global View Events Tags Limits Instances Instances New Instance Types Launch Templates Spot Requests Savings Plans Reserved Instances New Dedicated Hosts Capacity Reservations Images AMIs New AMI Catalog

EC2 > Instances > i-0895b0ad2f7ad5ece

Instance summary for i-0895b0ad2f7ad5ece (agmc-ilma)

Updated less than a minute ago

Instance ID	i-0895b0ad2f7ad5ece (agmc-ilma)	Public IPv4 address	Private IPv4 addresses
IPv6 address	-	13.212.212.127 open address	172.31.45.155
Hostname type	IP name: ip-172-31-45-155.ap-southeast-1.compute.internal	Instance state	Public IPv4 DNS
Answer private resource DNS name	IPv4 (A)	Running	ec2-13-212-212-127.ap-southeast-1.compute.amazonaws.com open address
Auto-assigned IP address	13.212.212.127 [Public IP]	Private IP DNS name (IPv4 only)	Elastic IP addresses
IAM Role	-	ip-172-31-45-155.ap-southeast-1.compute.internal	-
Subnet ID	-	t2.micro	AWS Compute Optimizer finding
		VPC ID	User: arn:aws:iam::323604725092:user/ilmanurh is not authorized to perform: compute-optimizer:GetEnrollmentStatus on resource: * because no identity-based policy allows the compute-optimizer:GetEnrollmentStatus action
		vpc-034ea6d2e0650722b	Retry
		subnet-066bac94429720710	Auto Scaling Group name
			-

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The screenshot shows a CloudShell terminal window with the following interface elements:

- Top Bar:** AWS logo, Services icon, Search bar containing "Search for services, features, blogs, docs, and more" with a magnifying glass icon, and a keyboard shortcut "[Alt+S]".
- User Information:** Notifications icon, Help icon, Singapore dropdown menu, and User dropdown menu showing "ilmanurh @ zhubaid-aws".
- Terminal Session:** A black terminal window showing the command "curl -s https://aws.amazon.com/amazon-linux-2/" which has returned the output "Amazon Linux 2 AMI". Below this, the URL "https://aws.amazon.com/amazon-linux-2/" and the prompt "[ec2-user@ip-172-31-45-155 ~]\$" are visible.

i-0895b0ad2f7ad5ece (agmc-ilma)

Public IPs: 13.212.212.127 Private IPs: 172.31.45.155

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Amazon RDS Databases

RDS > Databases

Databases

Group resources Modify Actions Restore from S3 Create database

Filter by databases

DB identifier	Role	Engine	Region & AZ	Size	Status	CPU
altermadb	Instance	MySQL Community	ap-southeast-1b	db.t2.micro	Available	5.41%

Subnet groups Parameter groups Option groups Custom engine versions

Events Event subscriptions

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The screenshot shows the AWS Amazon RDS Databases page. On the left, there's a sidebar with links like Dashboard, Databases (which is selected and highlighted in orange), Query Editor, Performance insights, Snapshots, Automated backups, Reserved instances, Proxies, Subnet groups, Parameter groups, Option groups, Custom engine versions, Events, and Event subscriptions. The main content area has a header with 'RDS > Databases'. Below that is a 'Databases' section with a table. The table has columns for DB identifier, Role, Engine, Region & AZ, Size, Status, and CPU. One row is visible, showing 'altermadb' as the DB identifier, Instance as the role, MySQL Community as the engine, ap-southeast-1b as the region & AZ, db.t2.micro as the size, Available as the status, and 5.41% as the CPU usage. There are also buttons for Group resources, Modify, Actions, Restore from S3, and Create database.

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Amazon RDS

RDS > Databases > alterradb

alterradb

Modify Actions ▾

Summary

DB identifier	CPU	Status	Class
alterradb	5.41%	Available	db.t2.micro
Role	Current activity	Engine	Region & AZ
Instance	0 Connections	MySQL Community	ap-southeast-1b

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

Connectivity & security

Endpoint & port	Networking	Security
Endpoint	Availability Zone	VPC security groups
alterradb.ckzau7aexdew.ap-southeast-1.rds.amazonaws.com	ap-southeast-1b	agmcc-security-group (sg-072b6dac60d7a4ed9)
	VPC	Active

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Inbound rules control the incoming traffic that's allowed to reach the instance.

Security group rule ID	Type Info	Protocol Info	Port range Info	Source Info	Description - optional Info
sgr-0ec680b21186029cc	HTTP ▾	TCP	80	Custom ▾	<input type="text"/> Q <input type="text"/> ::/0 X
sgr-00eaa73ac55a31f5f	SSH ▾	TCP	22	Custom ▾	<input type="text"/> Q <input type="text"/> 0.0.0.0/0 X
sgr-0cfdd8aee6667d45b	HTTP ▾	TCP	80	Custom ▾	<input type="text"/> Q <input type="text"/> 0.0.0.0/0 X
-	MYSQL/Aurora ▾	TCP	3306	Anywh... ▾	<input type="text"/> Q <input type="text"/> 0.0.0.0/0 X

[Add rule](#)

[Cancel](#) [Preview changes](#) [Save rules](#)

Inbound rules control the incoming traffic that's allowed to reach the instance.

Security group rule ID	Type Info	Protocol Info	Port range Info	Source Info	Description - optional Info
sgr-0ec680b21186029cc	HTTP ▾	TCP	80	Custom ▾	<input type="text" value="::/0"/> X
sgr-00eaa73ac55a31f5f	SSH ▾	TCP	22	Custom ▾	<input type="text" value="0.0.0.0/0"/> X
sgr-0cfdd8aee6667d45b	HTTP ▾	TCP	80	Custom ▾	<input type="text" value="0.0.0.0/0"/> X
-	MYSQL/Aurora ▾	TCP	3306	Anywh... ▾	<input type="text" value="0.0.0.0/0"/> X

[Add rule](#)

[Cancel](#) [Preview changes](#) [Save rules](#)

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EC2 Dashboard EC2 Global View Events Tags Limits

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

Images AMIs New AMI Catalog

Security Groups (1/4) Info Actions Export security groups to CSV Create security group

Filter security groups

Name	Security group ID	Security group name	VPC ID	Description	Owner
-	sg-058c1193f9e8d714b	elb-ecs-sg	vpc-034ea6d2e0650722b	elb-ecs-sg	323604725092

You can now check network connectivity with Reachability Analyzer Run Reachability Analyzer

Inbound rules (4)

Manage tags Edit inbound rules

Filter security group rules

Security group rule...	IP version	Type	Protocol	Port range	Source
sgr-0ec680b21186029cc	IPv6	HTTP	TCP	80	::/0
sgr-02aae524c08d05b6f	IPv4	MYSQL/Aurora	TCP	3306	0.0.0.0/0
sgr-00eaa73ac55a31f5f	IPv4	SSH	TCP	22	0.0.0.0/0
sgr-0cfdd8aee6667d45b	IPv4	HTTP	TCP	80	0.0.0.0/0

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AWS DMS

DMS Studio New

Dashboard Database migration tasks Replication instances Endpoints Certificates Subnet groups Events Event subscriptions

New feature announcements

Create replication instance

Replication instance configuration

Name
The name must be unique among all of your replication instances in the current AWS region.

Descriptive Amazon Resource Name (ARN) - optional
A friendly name to override the default DMS ARN. You cannot modify it after creation.

Description
Replication to manage mySQL in RDS
The description must only have unicode letters, digits, whitespace, or one of these symbols: _:/=-@. 1000 maximum character.

Instance class Info
Choose an appropriate instance class for your replication needs. Each instance class provides differing levels of compute, network and memory capacity. [DMS pricing](#)

2 vCPUs 1 GiB Memory

Include previous-generation instance classes

Engine version
Choose an AWS DMS version to run on your replication instance. [DMS versions](#)

Include Beta DMS versions

Upgrades to versions 3.4.7 and higher
Upgrades to AWS DMS versions 3.4.7 and higher require that you configure AWS

View endpoints

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AWS DMS

DMS Studio New

- Dashboard
- Database migration tasks
- Replication instances**
- Endpoints
- Certificates
- Subnet groups
- Events
- Event subscriptions

New feature announcements

source and target endpoints for S3, Kinesis, Secrets Manager, DynamoDB, Amazon Redshift, and OpenSearch Service. [Learn more](#)

Allocated storage (GiB) Info

Choose the amount of storage space you want for your replication instance. AWS DMS uses this storage for log files and cached transactions while replication tasks are in progress.

VPC

Choose an Amazon Virtual Private Cloud (VPC) where your replication instance should run.

Multi AZ

The Multi-AZ option deploys a primary replication instance in one Availability Zone (AZ) and a standby in another AZ. The Single-AZ option deploys a single replication instance in one AZ. Billing is based on DMS pricing.

Choose a failover setting

Publicly accessible

If you choose this option, AWS DMS will assign a public IP address to your replication instance, and you'll be able to connect to databases outside of your Amazon VPC.

Advanced security and network configuration

Replication subnet group

Choose a subnet group for your replication instance. The subnet group defines the IP ranges and subnets that your replication instance can use within the Amazon VPC you've chosen.

Availability zone

Choose an availability zone (AZ) where you want your replication instance to run. The default is "No preference", meaning that AWS DMS will determine which AZ to use.

VPC security group(s)

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AWS DMS

DMS Studio New

Dashboard

Database migration tasks

Replication instances

Endpoints

Certificates

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Events

Event subscriptions

New feature announcements

Choose a failover setting

Publicly accessible

If you choose this option, AWS DMS will assign a public IP address to your replication instance, and you'll be able to connect to databases outside of your Amazon VPC.

▼ Advanced security and network configuration

Replication subnet group

Choose a subnet group for your replication instance. The subnet group defines the IP ranges and subnets that your replication instance can use within the Amazon VPC you've chosen.

default-vpc-034ea6d2e0650722b

Availability zone

Choose an availability zone (AZ) where you want your replication instance to run. The default is "No preference", meaning that AWS DMS will determine which AZ to use.

No Preference

VPC security group(s)

Choose one or more security groups for your replication instances. The security group(s) specify inbound and outbound rules to control network access to your replication instance.

Use default

agmcc-security-group X

KMS key | Info

(Default) aws/dms

► Maintenance

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AWS DMS

DMS Studio New

Dashboard Database migration tasks **Replication instances** Endpoints Certificates Subnet groups Events Event subscriptions

New feature announcements

agmc-replication creation in progress.

DMS > Replication instances

Upgrades to versions 3.4.7 and higher
You have 1 instance that uses AWS DMS version 3.4.7. Upgrades to AWS DMS versions 3.4.7 and higher require that you configure AWS DMS to use VPC endpoints or use public routes. This requirement applies to source and target endpoints for these data stores: S3, Kinesis, Secrets Manager, DynamoDB, Amazon Redshift, and OpenSearch Service. [Learn more](#)

View endpoints

Replication instances (1)

Find replication instance Actions Create replication instance

Name	Status	VPC	Class	Engine version	Availability zone	Public	Public IP address
agmc-replication	Creating	vpc-034ea6d2e0650722b	dms.t3.micro	3.4.7	ap-southeast-1c	Yes	

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AWS DMS

DMS Studio New

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New feature announcements

agmc-replication created successfully.

DMS > Replication instances

Upgrades to versions 3.4.7 and higher

You have 1 instance that uses AWS DMS version 3.4.7. Upgrades to AWS DMS versions 3.4.7 and higher require that you configure AWS DMS to use VPC endpoints or use public routes. This requirement applies to source and target endpoints for these data stores: S3, Kinesis, Secrets Manager, DynamoDB, Amazon Redshift, and OpenSearch Service. [Learn more](#)

View endpoints

Replication instances (1)

Find replication instance Actions Create replication instance

Name	Status	VPC	Class	Engine version	Availability zone	Public	Public IP address
agmc-replication	Modifying	vpc-034ea6d2e0650722b	dms.t3.micro	3.4.7	ap-southeast-1c	Yes	54.151.206.89

Feedback Looking for language selection? Find it in the new Unified Settings

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The screenshot shows the AWS DMS console. On the left, there's a sidebar with navigation links like 'DMS Studio', 'Replication instances' (which is highlighted in orange), and 'Create replication instance'. The main content area has a green banner at the top stating 'agmc-replication created successfully.' Below this, there's a notice about upgrading to version 3.4.7. The central part of the screen displays a table titled 'Replication instances (1)' with one row. The row contains information about a replication instance named 'agmc-replication'.

Name	Status	VPC	Class	Engine version	Availability zone	Public	Public IP address
agmc-replication	Modifying	vpc-034ea6d2e0650722b	dms.t3.micro	3.4.7	ap-southeast-1c	Yes	54.151.206.89

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EC2 Dashboard

EC2 Global View

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Tags

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Instances

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

Images

- AMIs New
- AMI Catalog

Elastic Block Store

- Volumes New
- Snapshots New
- Lifecycle Manager New

Network & Security

Security Groups

Security Groups (1/4) Info

Filter security groups

Name	Security group ID	Security group name	VPC ID	Description	Owner
-	sg-058c1193f9e8d714b	elb-ecs-sg	vpc-034ea6d2e0650722b	elb-ecs-sg	323604725092
-	sg-05941c806d51b8b9d	nginx-demo-sg	vpc-034ea6d2e0650722b	sg for nginx	323604725092
<input checked="" type="checkbox"/>	sg-072b6dac60d7a4ed9	agmcc-security-group	vpc-034ea6d2e0650722b	(allow HTTP, SSH) crea...	323604725092
-	sg-0ba3b9039b51e7d6c	default	vpc-034ea6d2e0650722b	default VPC security gr...	323604725092

sg-072b6dac60d7a4ed9 - agmcc-security-group

Details Inbound rules Outbound rules Tags

You can now check network connectivity with Reachability Analyzer Run Reachability Analyzer

Inbound rules (4)

Filter security group rules

Name	Security group rule...	IP version	Type	Protocol	Port range	Se
-	sgr-0ec680b21186029cc	IPv6	HTTP	TCP	80	::/
-	sgr-02aae524c08d05b6f	IPv4	MYSQL/Aurora	TCP	3306	0.
-	sgr-00eaat3ac55a31f5f	IPv4	SSH	TCP	22	0.
-	sgr-0cfdd8aee6667d45b	IPv4	HTTP	TCP	80	0.

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AWS DMS X DMS > Endpoints > Create endpoint

Create endpoint

Endpoint type Info

Source endpoint A source endpoint allows AWS DMS to read data from a database (on-premises or in the cloud), or from other data source such as Amazon S3.

Target endpoint A target endpoint allows AWS DMS to write data to a database, or to other data source.

Select RDS DB instance

RDS Instance Instances available only for current user and region alterradb

Endpoint configuration

Endpoint identifier Info A label for the endpoint to help you identify it. alterradb

Descriptive Amazon Resource Name (ARN) - optional A friendly name to override the default DMS ARN. You cannot modify it after creation. Friendly-ARN-name

Target engine The type of database engine this endpoint is connected to. [Learn more](#) MySQL

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AWS DMS

DMS Studio [New](#)

- Dashboard
- Database migration tasks
- Replication instances
- Endpoints**
- Certificates
- Subnet groups
- Events
- Event subscriptions

New feature announcements [View](#)

Endpoint identifier [Info](#)
A label for the endpoint to help you identify it.

Descriptive Amazon Resource Name (ARN) - optional
A friendly name to override the default DMS ARN. You cannot modify it after creation.

Target engine
The type of database engine this endpoint is connected to. [Learn more](#)

Access to endpoint database
 AWS Secrets Manager
 Provide access information manually

Server name
The name of the data server for the data provider.

Port
The port the database runs on for this endpoint.

User name [Info](#) **Password** [Info](#)

Secure Socket Layer (SSL) mode
The type of Secure Socket Layer enforcement

Endpoint settings

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AWS DMS

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New feature announcements

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Endpoint configuration

Endpoint identifier [Info](#)
A label for the endpoint to help you identify it.
altermadb

Descriptive Amazon Resource Name (ARN) - *optional*
A friendly name to override the default DMS ARN. You cannot modify it after creation.
Friendly-ARN-name

Target engine
The type of database engine this endpoint is connected to. [Learn more](#)

MySQL

Access to endpoint database
 AWS Secrets Manager
 Provide access information manually

Server name
The name of the data server for the data provider.
altermadb.ckzau7aexdew.ap-southeast-1.rds.amazonaws.com

Port
The port the database runs on for this endpoint.
3306

User name [Info](#) Password [Info](#)
root|

Secure Socket Layer (SSL) mode
The type of Secure Socket Layer enforcement
none

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AWS DMS X

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New feature announcements

KMS key

Tags

▼ Test endpoint connection (optional)

VPC

vpc-034ea6d2e0650722b

Replication instance

A replication instance performs the database migration

agmc-replication

⚠ Your endpoint will always be created even if the connection fails

After clicking 'Run test', DMS creates the endpoint with the details you provided and attempts to connect to it. If the connection fails, you can edit the endpoint definition and test the connection again. You can also delete the endpoint manually.

Run test

Endpoint identifier	Replication instance	Status	Message
alterradb	agmc-replication	successful	

Cancel Create endpoint

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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

Feedback Looking for language selection? Find it in the new Unified Settings

https://ap-southeast-1.console.aws.amazon.com/rds/

MySQL Connection

Name agmc-aws

Status color

Host alterradb.ckzau7aexdew.ap-southeast-1.rds.amazonaws.com

Port 3306

User root

Password ••••••••

Database

SSL mode PREFERRED

Networking

Availability Zone ap-southeast-1b

VPC vpc-034ea6d2e065

Subnet group default-vpc-034ea6

Subnets subnet-0bc88b5f8a subnet-050af7d7fb subnet-066bac9442

Network type IPv4

Over SSH

Server

Port

User

Password

Use SSH Key

SSH private key...

Passphrase

Save Test Connect

Security group rules (2)

Filter by security group rules

1

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← → ⌂ ⌂ https://ap-southeast-1.console.aws.amazon.com/rds/

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Amazon RDS X

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- Databases **Selected**
- Query Editor
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- Snapshots
- Automated backups
- Reserved instances
- Proxies

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Recommendations 1

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MySQL Connection

Name agmc-aws

Status color Tag local

Host alterradb.ckzau7aexdew.ap-southeast-1.rds.amazonaws.com Port 3306

User root

 **tableplus** connection is ok

Over SSH

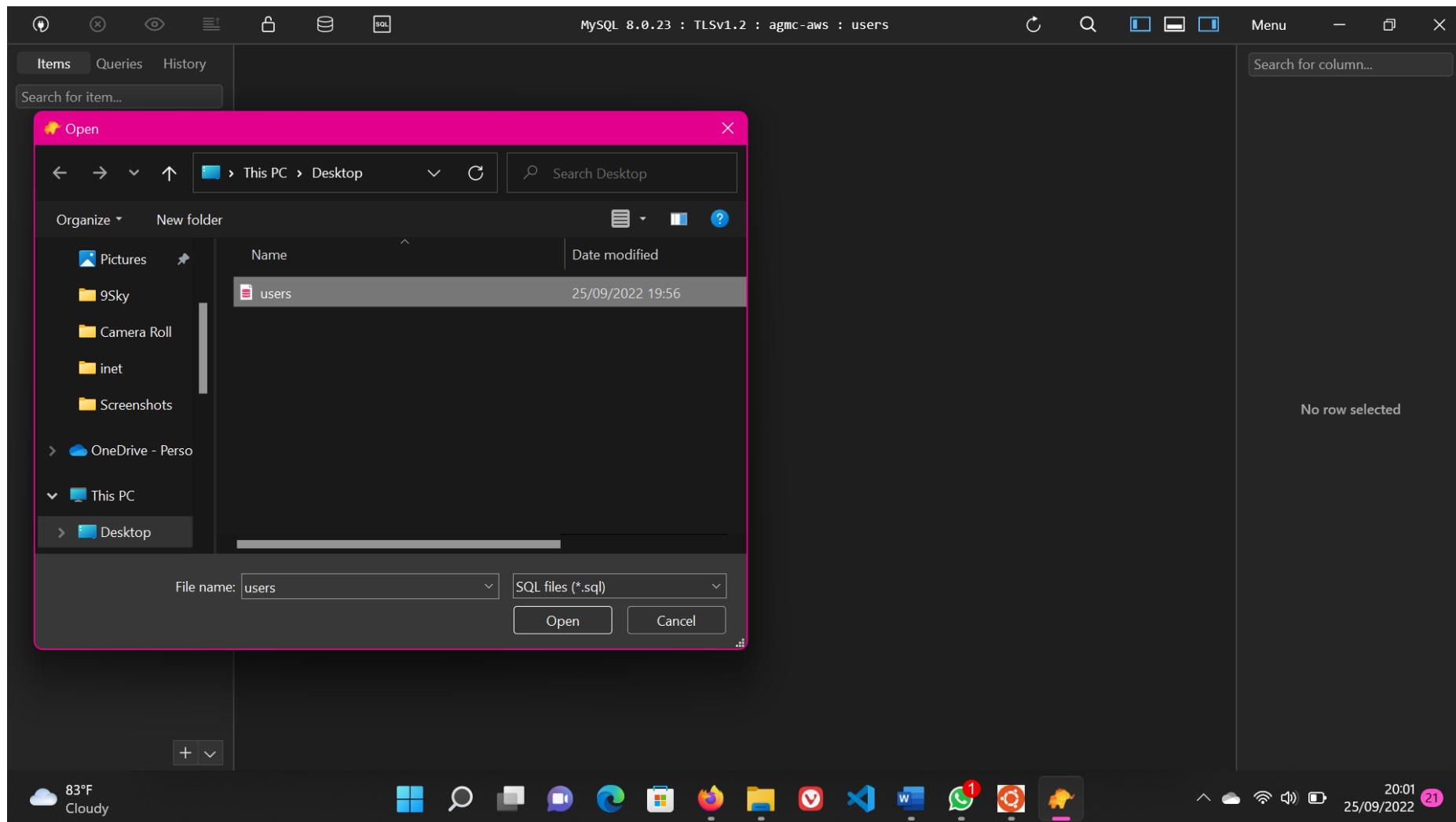
Server Port

User

Password

Use SSH Key SSH private key... Passphrase

OK Save Test Connect C



MySQL 8.0.23 : TLSv1.2 : agmc-aws : users : users

	id	email	username	password	full_name	gender	age	token	create
1	ilma@gmail.com	ilmanur	password	ilma nur	female	15	eyJhbGciOiJIUzI1NilsInR5cCl6IkpxVCJ9eyJhdXRob3Jpem...	2022-09-19 11:	
3	ilman@gmail.co...	ilmanur	password	ilma nur	female	12	EMPTY	2022-09-20 12:	
4	EMPTY	ilmanur	password	ilma nur	female	12	EMPTY	2022-09-20 15:	
5	dd@gmail.com	EMPTY	password	ilma nur	female	12	EMPTY	2022-09-20 15:	
6	cc@gmail.com	EMPTY	password	ilma nur	female	12	EMPTY	2022-09-20 15:	

No row selected

+ ▾ Data Structure + Row 1-5 of 5 rows Columns Filters < > 83°F Cloudy 20:01 25/09/2022 21