

Steps for AWS – “RDS” Configuration for “MySQL”

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1. Login to AWS Management Console

➔ Go To -

<https://aws.amazon.com/>

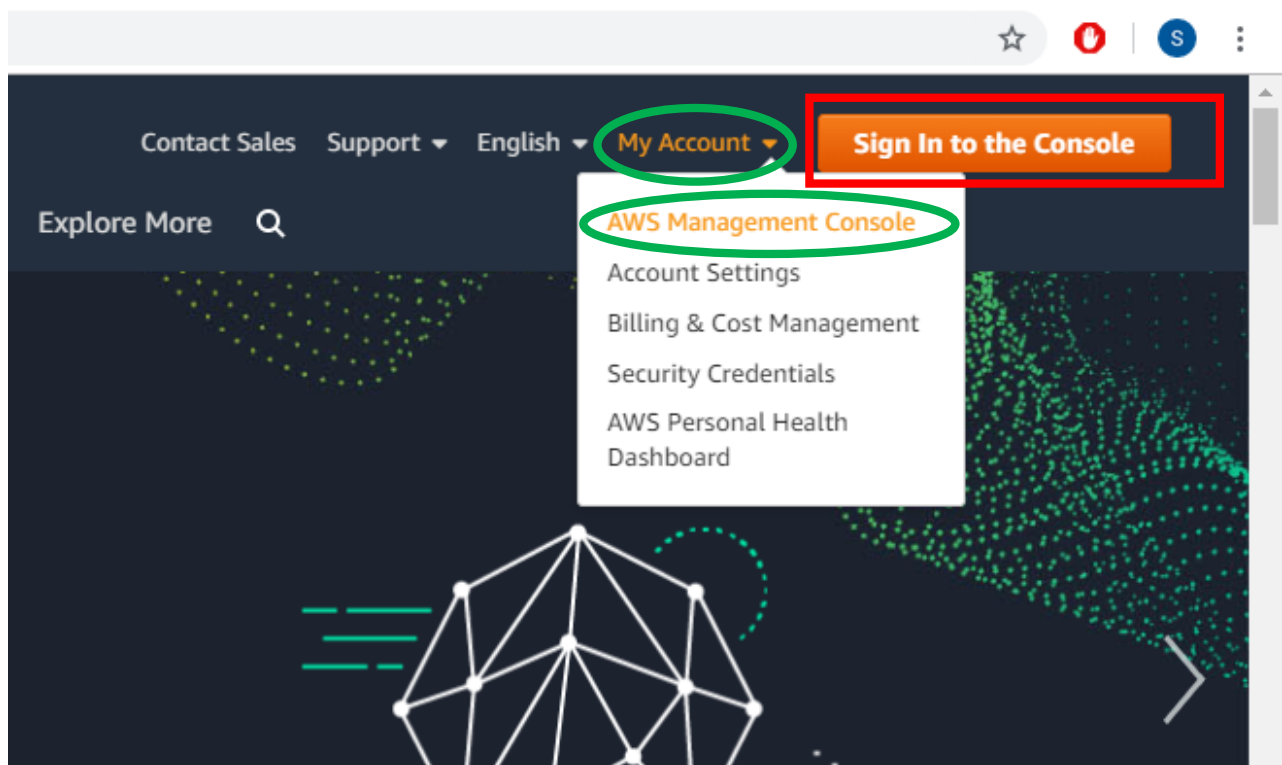
➔ Click on “**Sign In to the Console**” button.

OR

Hover the mouse pointer to “**My Account**” drop down menu and click on “**AWS Management Console**”

How to Create AWS Account? Click –

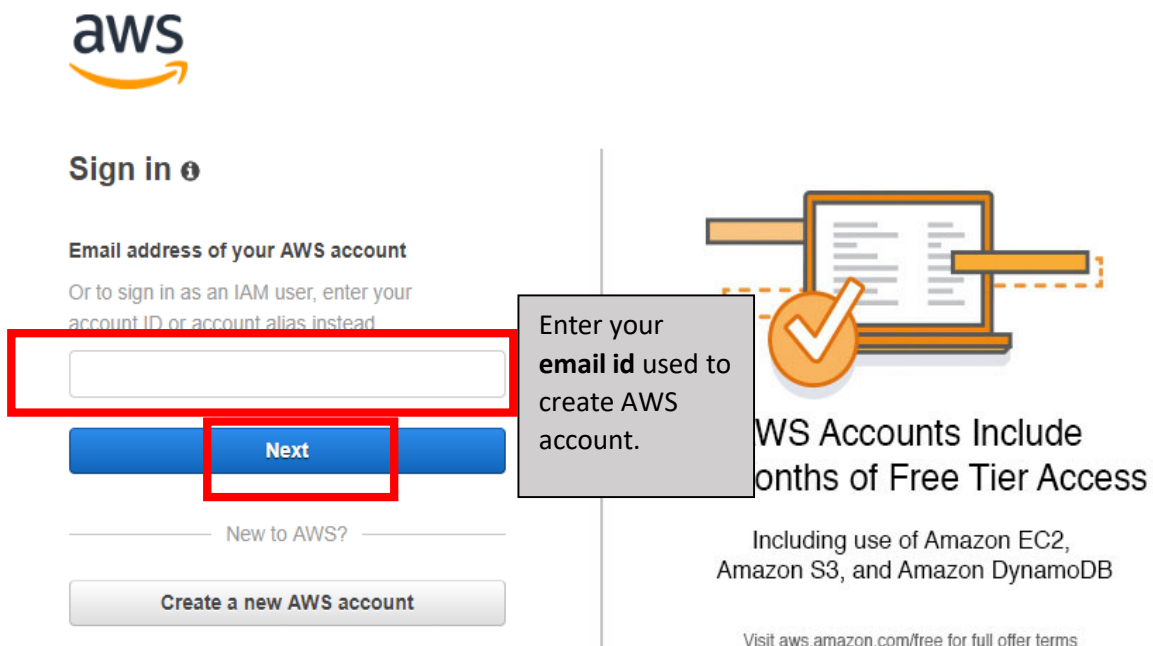
[AWS - Account Creation.pdf](#)



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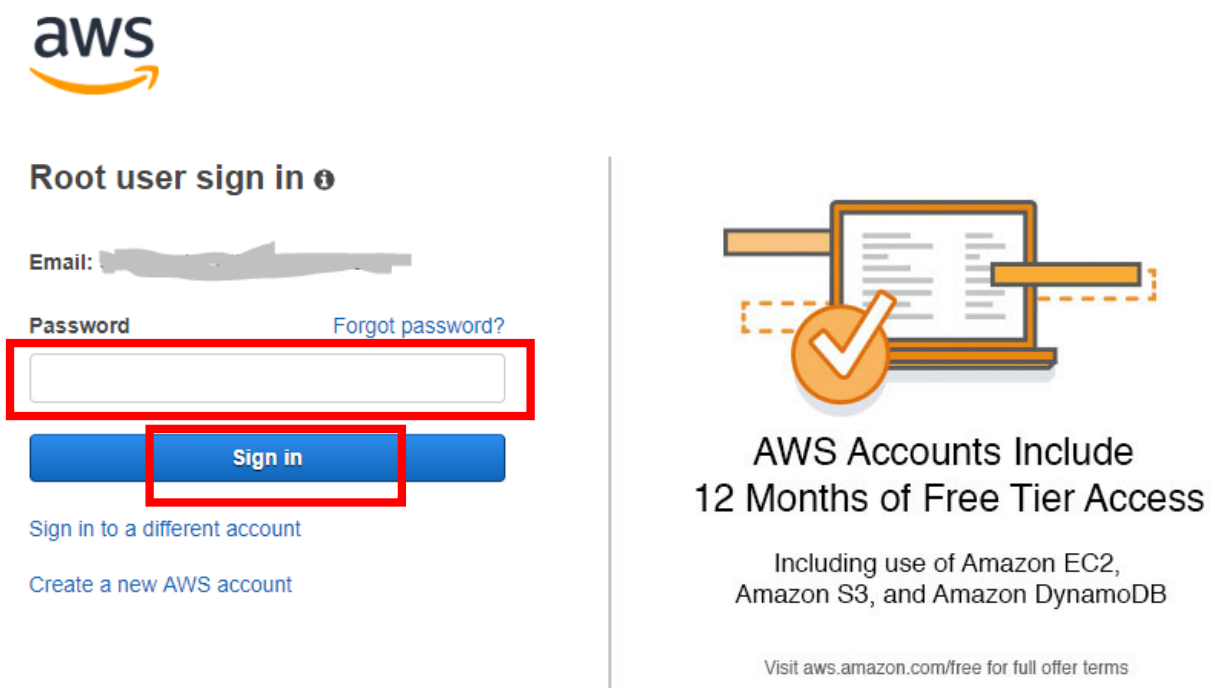
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- ➔ Enter **Email Id**
- ➔ Click on “Next” button



The image shows the AWS Sign in page. The AWS logo is at the top left. Below it, the text "Sign in" is followed by a help icon. The main heading is "Email address of your AWS account". Below this, a smaller text says "Or to sign in as an IAM user, enter your account ID or account alias instead". There is a text input field for the email address, which is highlighted with a red rectangle. Below the input field is a blue button labeled "Next", also highlighted with a red rectangle. Below the "Next" button is a link "New to AWS?". At the bottom is a button labeled "Create a new AWS account". To the right of the sign-in form, there is a grey box with the text "Enter your email id used to create AWS account." and an illustration of a laptop with a checkmark. Below this, the text "AWS Accounts Include 12 Months of Free Tier Access" is displayed, followed by "Including use of Amazon EC2, Amazon S3, and Amazon DynamoDB" and a link "Visit aws.amazon.com/free for full offer terms".

- ➔ Enter your password
- ➔ Click on “Sign in” button.

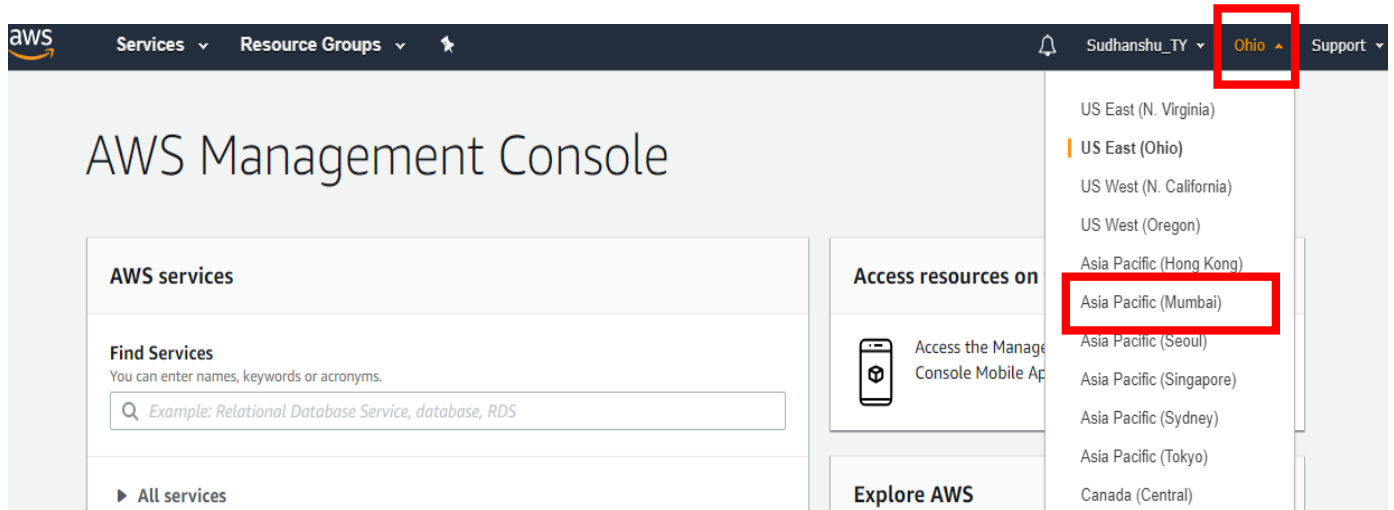


The image shows the AWS Root user sign in page. The AWS logo is at the top left. Below it, the text "Root user sign in" is followed by a help icon. The main heading is "Email: [redacted]". Below this is a "Password" label and a text input field for the password, which is highlighted with a red rectangle. To the right of the password input field is a link "Forgot password?". Below the password input field is a blue button labeled "Sign in", also highlighted with a red rectangle. Below the "Sign in" button are two links: "Sign in to a different account" and "Create a new AWS account". To the right of the sign-in form, there is a grey box with the text "Enter your email id used to create AWS account." and an illustration of a laptop with a checkmark. Below this, the text "AWS Accounts Include 12 Months of Free Tier Access" is displayed, followed by "Including use of Amazon EC2, Amazon S3, and Amazon DynamoDB" and a link "Visit aws.amazon.com/free for full offer terms".

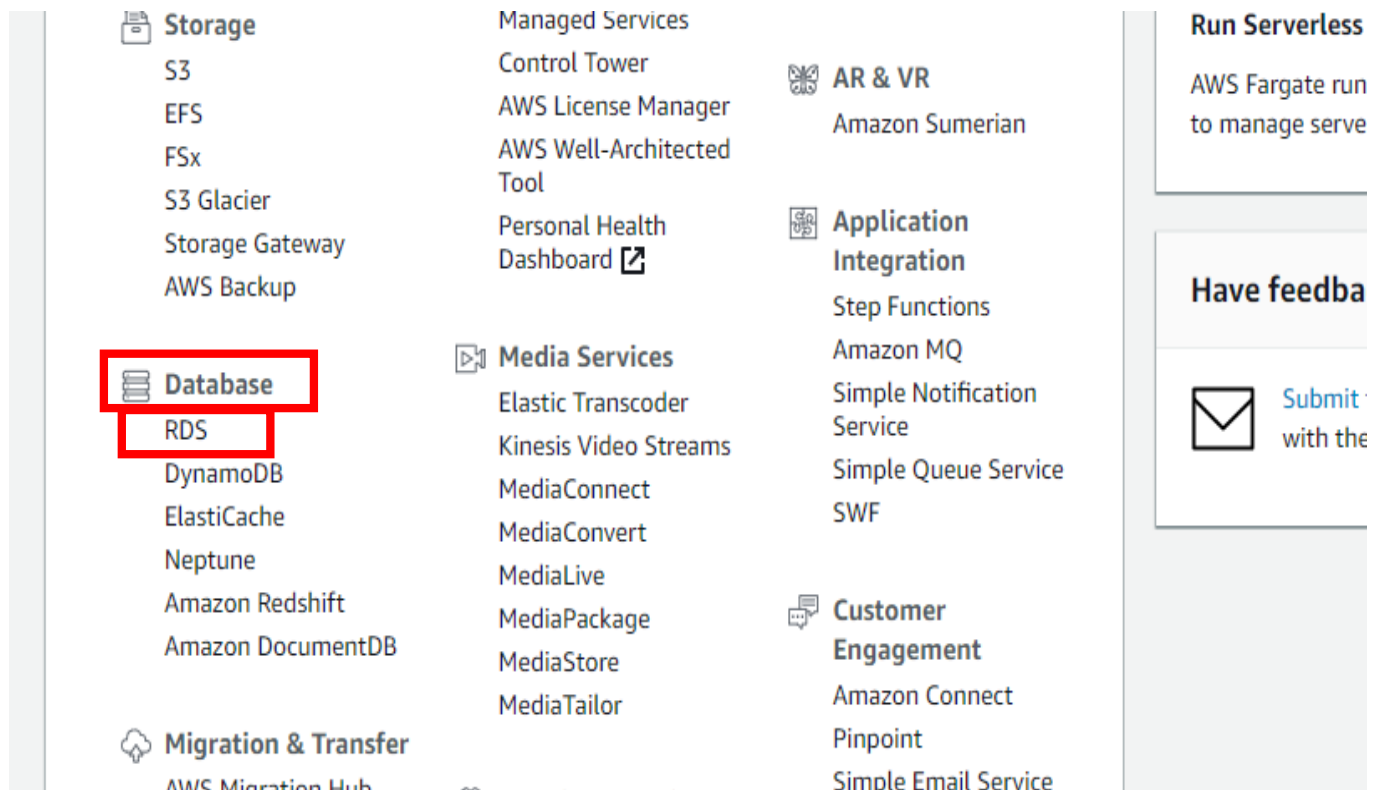
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2. On the top right corner (next to your AWS Account Name), **change the region (location) to “Asia Pacific (Mumbai)”**
 - Hover mouse to Ohio or whatever location it shows (next to your AWS Account Name).
 - Select “Asia Pacific (Mumbai)” from the drop down list.



3. Expand “All services” → under ‘Database’ select “RDS” –



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4. Click on “Create Database” –

The screenshot shows the AWS Management Console interface for Amazon RDS. On the left, there is a navigation menu with options like Dashboard, Databases, Performance Insights, Snapshots, Automated backups, Reserved instances, Subnet groups, Parameter groups, Option groups, Events, Event subscriptions, and Recommendations. The main content area displays the 'Amazon Aurora' section, which includes a description of Aurora as a MySQL- and PostgreSQL-compatible enterprise-class database. A red box highlights the 'Create database' button. Below this, there is a 'Resources' section showing the current usage of RDS resources in the Asia Pacific (Mumbai) region, including DB Instances, Parameter groups, Option groups, and Snapshots.

5. Scroll down completely and check the “free tier eligible only” checkbox –

The screenshot shows the 'Create database' wizard in the AWS Management Console. The 'Edition' section is visible, with three options: MySQL 5.6-compatible (selected), MySQL 5.7-compatible, and PostgreSQL-compatible. Below this, there is a message about the 'Aurora global database feature' being available. At the bottom of the wizard, the checkbox 'Only enable options eligible for RDS Free Usage Tier' is checked and circled in red. The 'Next' button is visible on the right side of the wizard.

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6. Scroll Up and select “MySQL” –


RDS > Create database


Select engine

Engine options


☐ Amazon Aurora
Amazon Aurora

☒ MySQL


☐ MariaDB


☐ PostgreSQL



☐ Oracle
ORACLE

☐ Microsoft SQL Server
 Microsoft SQL Server

MySQL

7. Scroll down and click on “Next” –

- Supports General Purpose, Memory Optimized, and Burstable Performance instance classes.
- Supports automated backup and point-in-time recovery.
- Supports up to 5 Read Replicas per instance, within a single Region or cross-region.

 **Aurora global database feature is now available.**
This feature is now available in our new database creation flow.
[Try it now](#)


☒ Only enable options eligible for RDS Free Usage Tier [Info](#) Cancel **Next**


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8. Scroll down and Ensure “**Free Tier Eligible Only**” checkbox is **checked**. If not check it –

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

**Free tier**
The Amazon RDS Free Tier provides a single db.t2.micro instance as well as up to 20 GiB of storage, allowing new AWS customers to gain hands-on experience with Amazon RDS. Learn more about the RDS Free Tier and the instance restrictions [here](#).

☒ Only enable options eligible for RDS Free Usage Tier [Info](#)

DB instance class [Info](#)
db.t2.micro — 1 vCPU, 1 GiB RAM

Multi-AZ deployment [Info](#)
☐ Create replica in different zone
Creates a replica in a different Availability Zone (AZ) to provide data redundancy, eliminate I/O freezes, and minimize latency spikes during system harkunc

9. Scroll up and select “**DB Version**” –

RDS > Create database


Specify DB details

Instance specifications
Estimate your monthly costs for the DB Instance using the [AWS Simple Monthly Calculator](#)

DB engine
MySQL Community Edition

License model [Info](#)
general-public-license


DB engine version [Info](#)
MySQL 5.7.22

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

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10. Enter Storage size <= “20” GiB (under RDS Free Tier usage limit)

**Free tier**

The Amazon RDS Free Tier provides a single db.t2.micro instance as well as up to 20 GiB of storage, allowing new AWS customers to gain hands-on experience with Amazon RDS. Learn more about the RDS Free Tier and the instance restrictions [here](#).

☒ Only enable options eligible for RDS Free Usage Tier [Info](#)

DB instance class [Info](#)

db.t2.micro — 1 vCPU, 1 GiB RAM

Multi-AZ deployment [Info](#)

☐ Create replica in different zone

Creates a replica in a different Availability Zone (AZ) to provide data redundancy, eliminate I/O freezes, and minimize latency spikes during system backups.

☐ No

Storage type [Info](#)

General Purpose (SSD)

Allocated storage

GiB

(Minimum: 20 GiB, Maximum: 20 GiB) Higher allocated storage may improve IOPS performance.

Settings

DB instance identifier [Info](#)

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11. In the “Settings” section, configure settings as below –

- ➔ Db instance identifier : awsMySQLInstance
- ➔ Master username : root
- ➔ Master& confirm password: mypassword

- Click on “Next”

Settings

DB instance identifier [Info](#)
Specify a name that is unique for all DB instances owned by your AWS account in the current region.

awsMySQLInstance

DB instance identifier is case insensitive, but stored as all lower-case, as in "mydbinstance". Must contain from 1 to 63 alphanumeric characters or hyphens (1 to 15 for SQL Server). First character must be a letter. Cannot end with a hyphen or contain two consecutive hyphens.

Master username [Info](#)
Specify an alphanumeric string that defines the login ID for the master user.

root

Master Username must start with a letter. Must contain 1 to 16 alphanumeric characters.

Master password [Info](#) **Confirm password** [Info](#)

.....

Master Password must be at least eight characters long, as in "mypassword". Can be any printable ASCII character except "/", "", or "@".

Cancel Previous **Next**

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12. Against “Public Accessibility” select “YES” –

Configure advanced settings

Network & Security

Virtual Private Cloud (VPC) [Info](#)

VPC defines the virtual networking environment for this DB instance.

Default VPC (vpc-1c7c4a74) ▼



Only VPCs with a corresponding DB subnet group are listed.

Subnet group [Info](#)

DB subnet group that defines which subnets and IP ranges the DB instance can use in the VPC you selected.

default ▼

Public accessibility [Info](#)



Yes

EC2 instances and devices outside of the VPC hosting the DB instance will connect to the DB instances. You must also select one or more VPC security groups that specify which EC2 instances and devices can connect to the DB instance.



No

DB instance will not have a public IP address assigned. No EC2 instance or devices outside of the VPC will be able to connect.

Availability zone [Info](#)

No preference ▼

13. Select “Create new VPC security group” against “VPC security group” –

Availability zone [Info](#)

No preference ▼

VPC security groups

Security groups have rules authorizing connections from all the EC2 instances and devices that need to access the DB instance.



Create new VPC security group



Choose existing VPC security groups

Database options

14. Scroll down, under “**Database options**” section –

- ➔ give some “**Database name**”
- ➔ Note Down the port no.
- ➔ “**Disable**” IAM DB authentication.

Database options

Database name [Info](#)
employeeAwsDB
Note: if no database name is specified then no initial MySQL database will be created on the DB Instance.

Port [Info](#)
TCP/IP port the DB instance will use for application connections.
3306

DB parameter group [Info](#)
default.mysql5.7 ▼

Option group [Info](#)
default:mysql-5-7 ▼

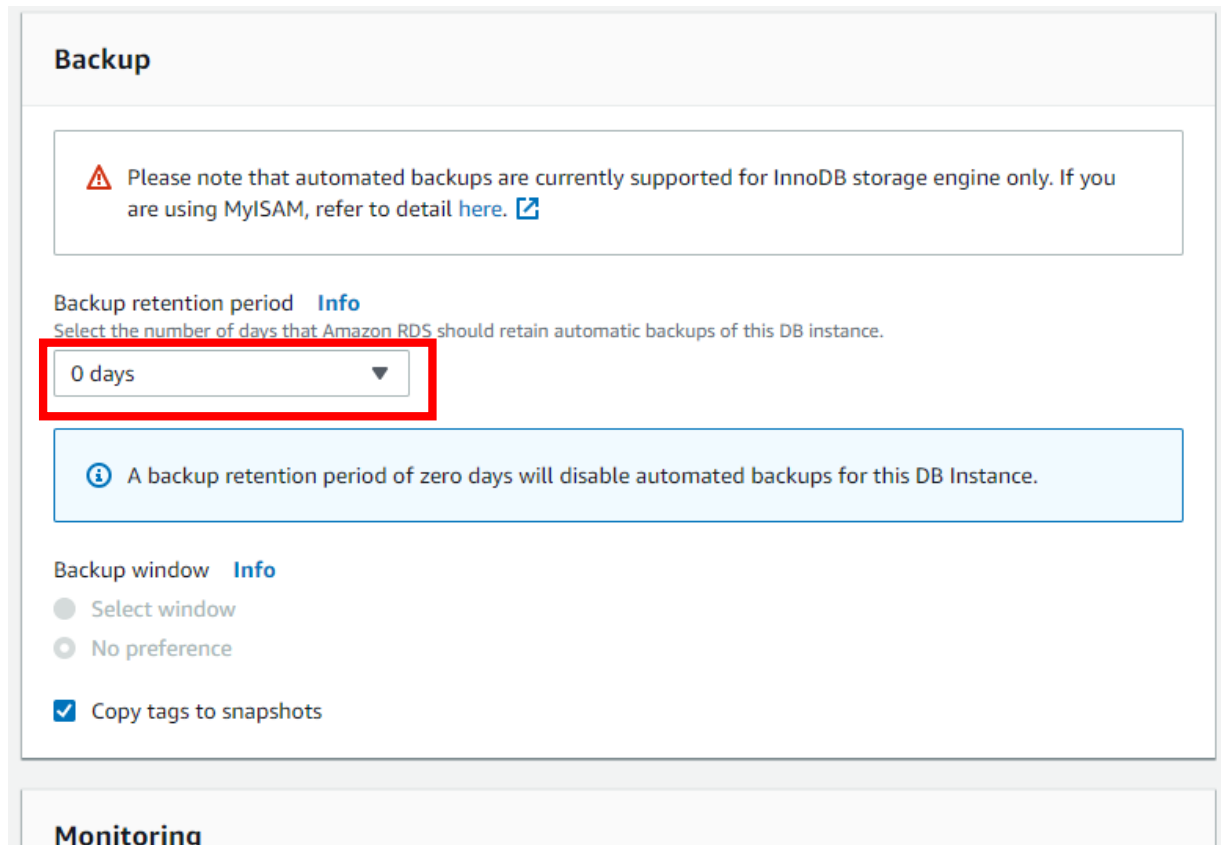
IAM DB authentication [Info](#)
☐ Enable IAM DB authentication
Manage your database user credentials through AWS IAM users and roles.
☒ **Disable**

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15. Scroll down, in “**Backup**” section, set “**Backup retention period**” to “**0 days**” from the dropdown. It will **disable auto-backup** of your DB Instance.

[NOTE: - if you want automatic backup for your DB Instance, select “>= 1 days” for auto-backup]



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 [Info](#)
Select the number of days that Amazon RDS should retain automatic backups of this DB instance.

0 days ▼

ⓘ A backup retention period of zero days will disable automated backups for this DB Instance.

Backup window [Info](#)

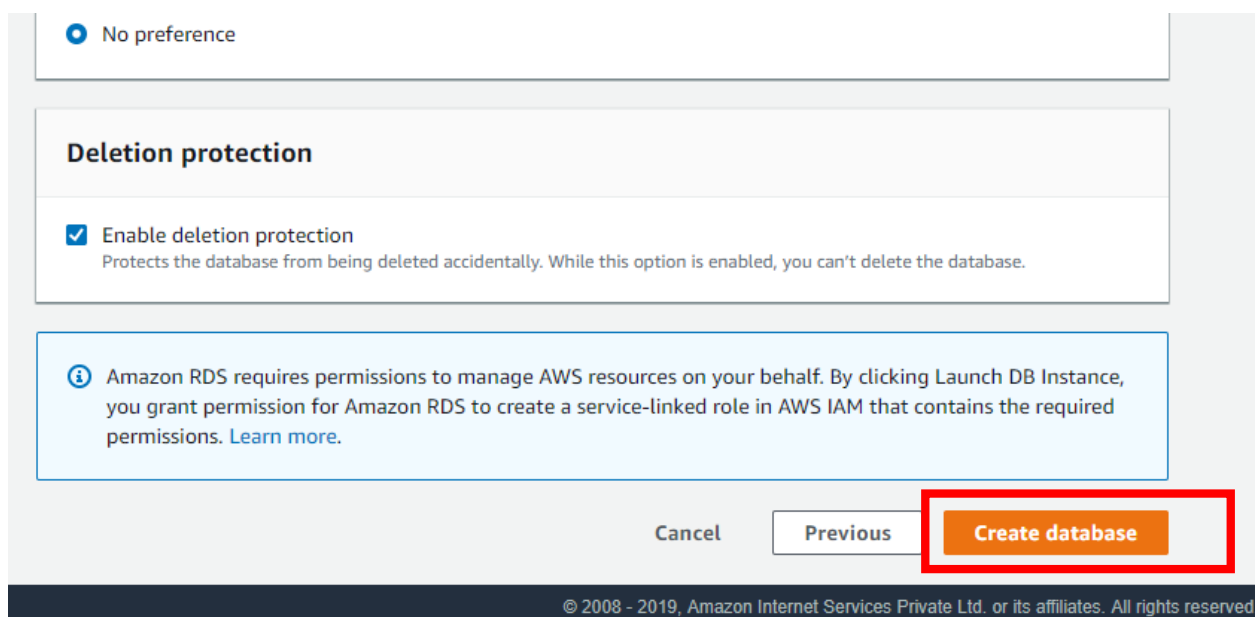
☐ Select window

☐ No preference

☒ Copy tags to snapshots

Monitoring

16. Scroll down completely and click on “**Create Database**” –



☒ 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.

ⓘ Amazon RDS requires permissions to manage AWS resources on your behalf. By clicking Launch DB Instance, you grant permission for Amazon RDS to create a service-linked role in AWS IAM that contains the required permissions. [Learn more](#).

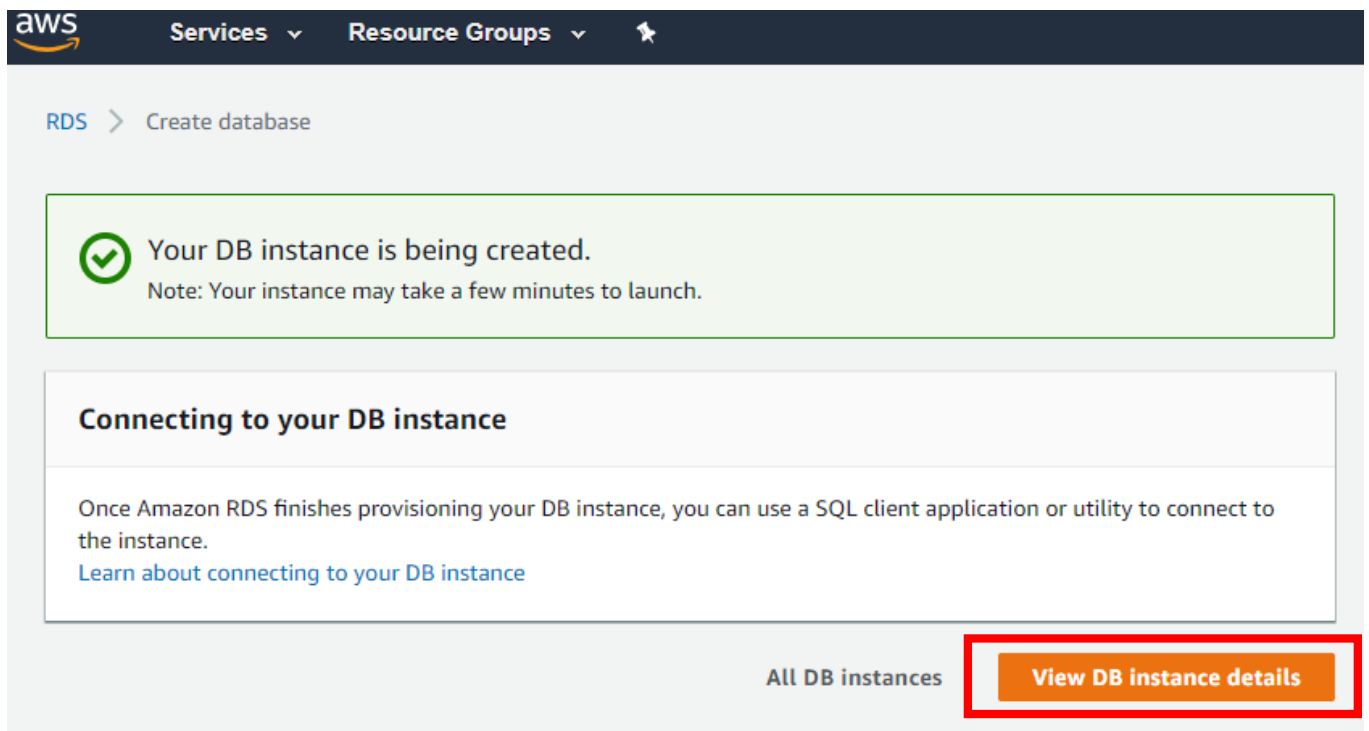
Cancel Previous **Create database**

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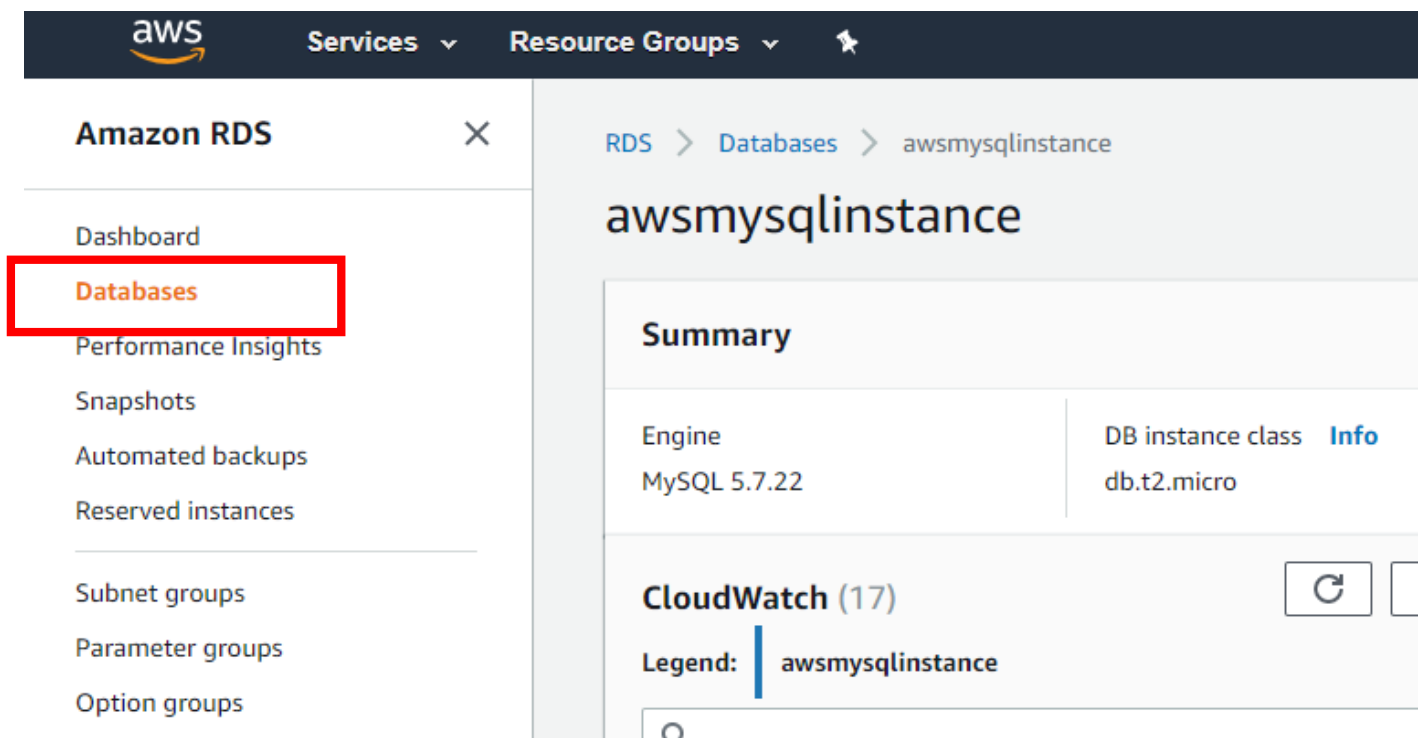
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17. Click on “View DB Instance Details” –



18. On the left hand side pane, click on “Databases” –




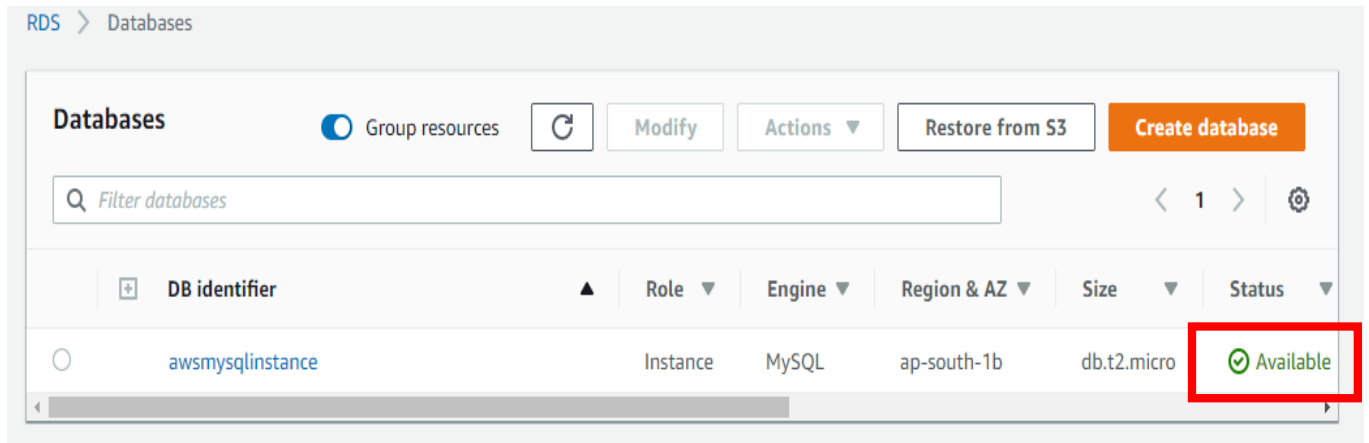
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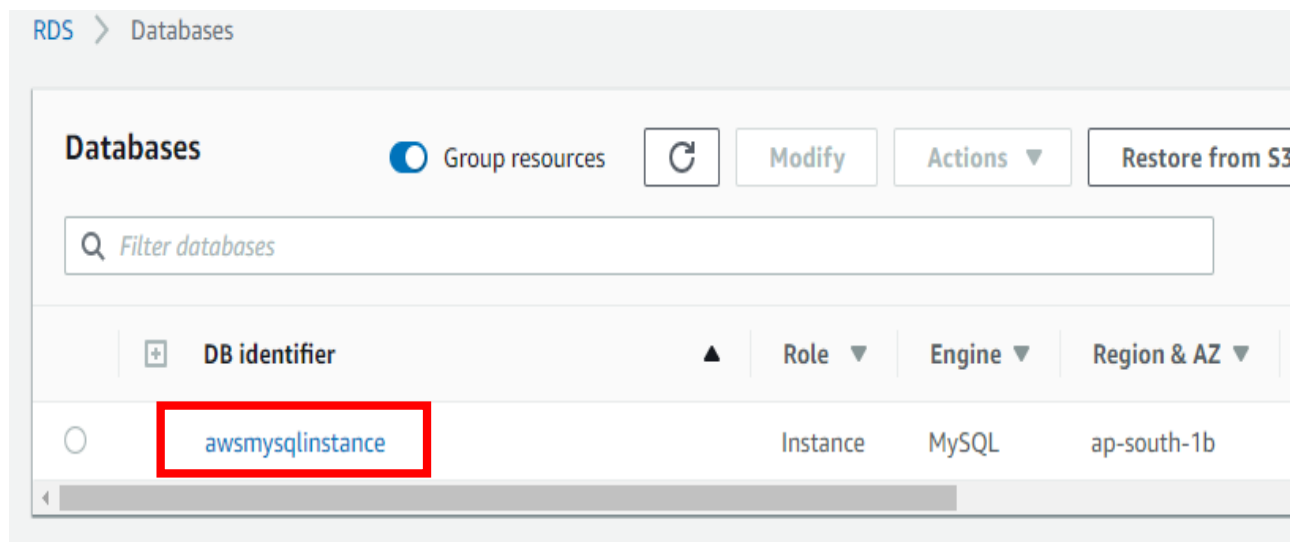
19. Check for “Status”.

- Wait until it becomes “ Available”.



- “You are ready with your MySQL DB Instance”.

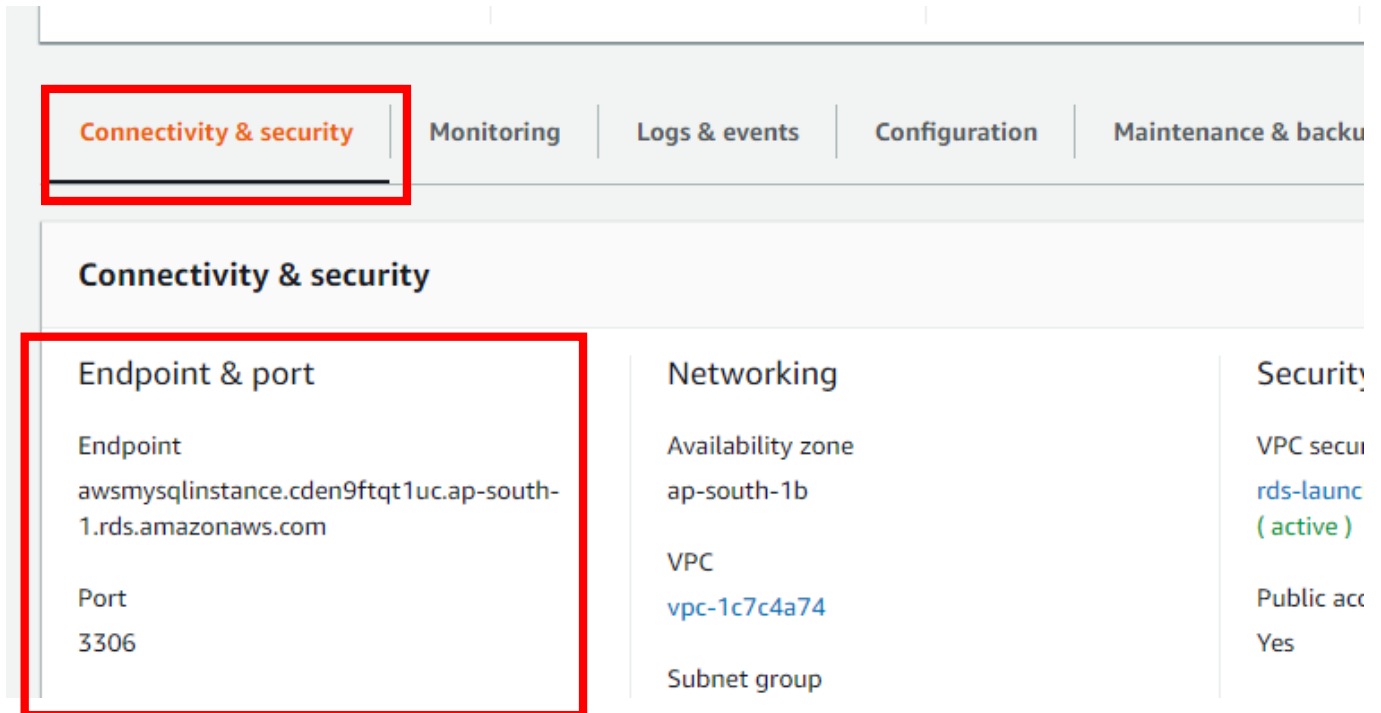
20. To find out the **ENDPOINT** URL and **PORT** to connect to your MySQL Instance, click on your instance (awsmysqlinstance) –



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21. Scroll down, under “**Connectivity & Security**” u can find **Endpoint & Port** details to connect to your DB Instance –



The screenshot shows the AWS RDS console interface. The 'Connectivity & security' tab is selected and highlighted with a red box. Below this, the 'Endpoint & port' section is also highlighted with a red box, showing the endpoint 'awsmysqinstance.cden9ftqt1uc.ap-south-1.rds.amazonaws.com' and port '3306'. Other sections like 'Networking' and 'Security' are visible but not highlighted.

Connectivity & security				
Endpoint & port		Networking		Security
Endpoint	awsmysqinstance.cden9ftqt1uc.ap-south-1.rds.amazonaws.com	Availability zone	ap-south-1b	VPC security group
Port	3306	VPC	vpc-1c7c4a74	rds-launch-wizard (active)
		Subnet group		Public access
				Yes