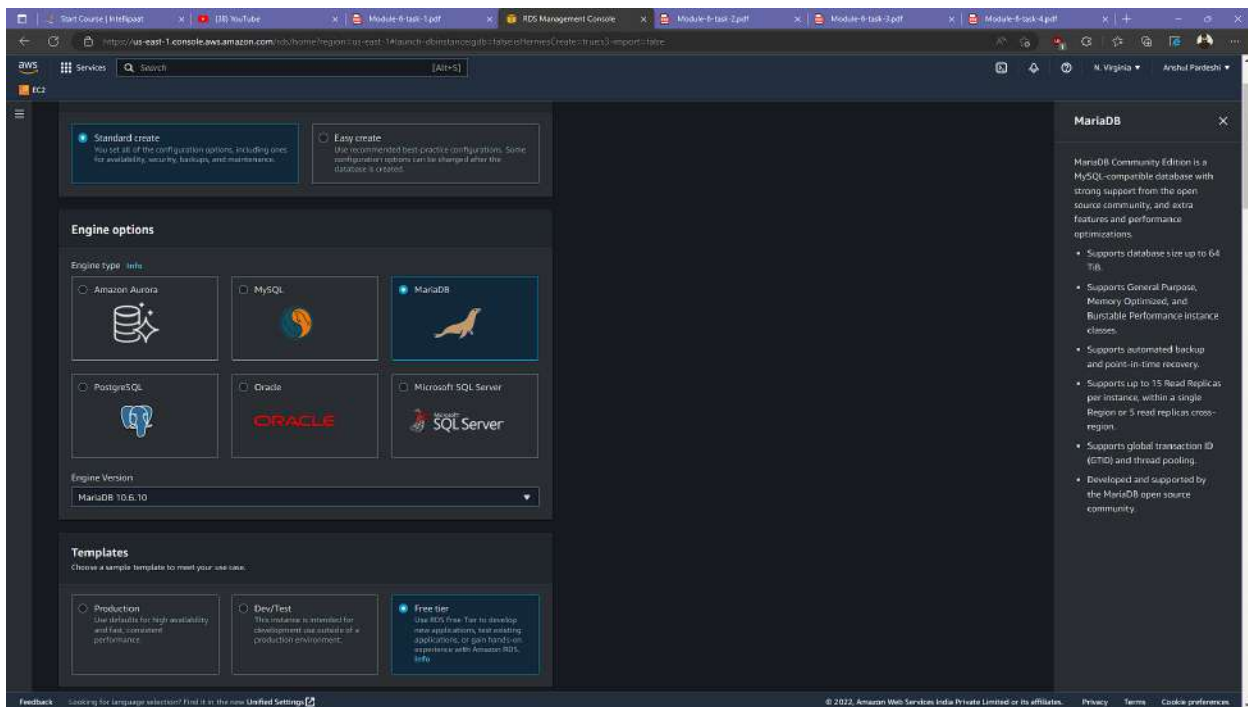
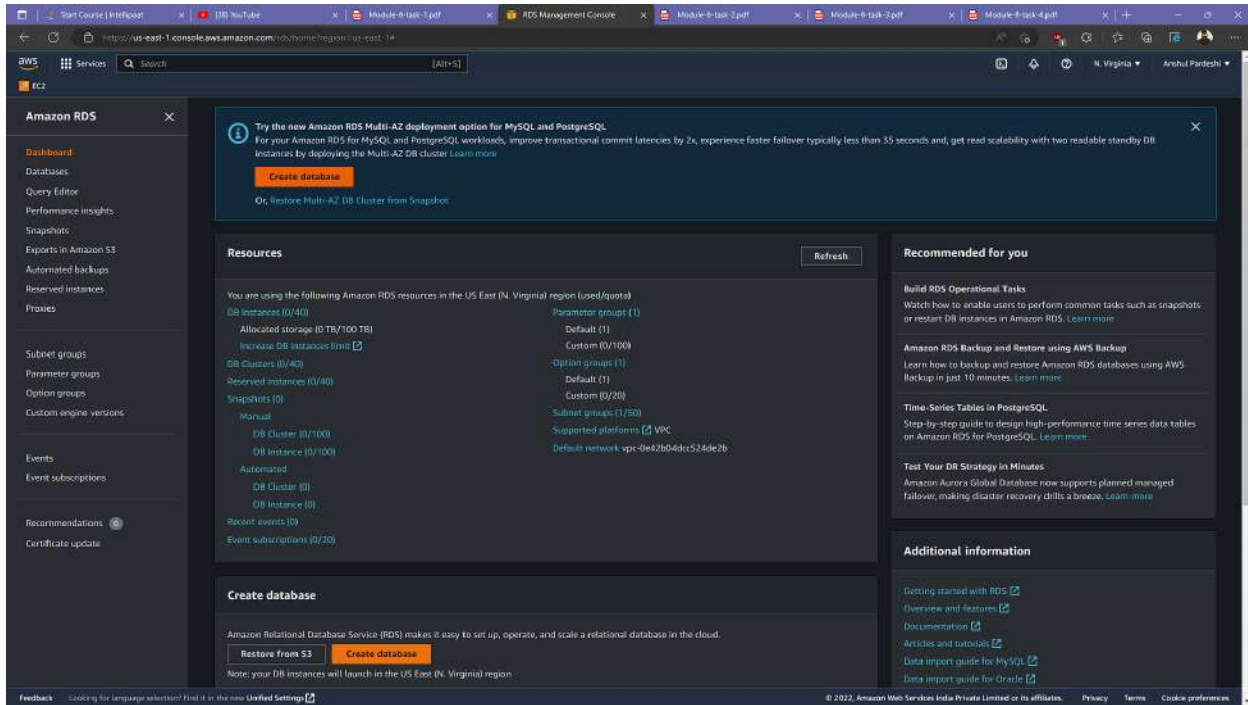


Module 6: Database Services Assignment - 1

You have been asked to:

1. Create an RDS MariaDB database
2. Login into the DB from your P



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https://us-east-1.console.aws.amazon.com/rds/home?region=us-east-1#launch-db-instance:db-instance-types?ref=crs-create-tracks-import-false

Services Search [Alt+S]

database-1

The DB instance identifier is case-insensitive, but is stored in all lowercase (as in "mydbinstance"). Constraints: 1 to 63 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.
admin

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.

☐ **Auto-generate a password**
Amazon RDS can generate a password for you, or you can specify your own password.

Master password [Info](#)
password

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](#)
password

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 classes (includes t classes)

db.t3.micro
2 vCPUs 1 GB RAM Network 1,024 Mbps

☒ Include previous generation classes

MariaDB

MariaDB Community Edition is a MySQL-compatible database with strong support from the open source community, and extra features and performance optimizations.

- Supports database size up to 64 TiB.
- Supports General Purpose, Memory Optimized, and Burstable Performance instance classes.
- Supports automated backup and point-in-time recovery.
- Supports up to 15 Read Replicas per instance, within a single Region or 5 read replica cross-region.
- Supports global transaction ID (GTID) and thread pooling.
- Developed and supported by the MariaDB open source community.

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

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Storage

Storage type [Info](#)
General Purpose SSD (gp2)
Baseline performance, determined by volume size.

Allocated storage
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.

Availability & durability

Multi-AZ deployment [Info](#)
☒ Create a standby instance (recommended for production usage)
Creates a standby in a different Availability Zone (AZ) to provide data redundancy, minimize DDL times, and minimize latency during system backups.

☐ Do not create a standby instance

Connectivity

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 the 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.

Virtual private cloud (VPC) [Info](#)

MariaDB

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https://us-east-1.console.aws.amazon.com/rds/home?region=us-east-1#launch:dbinstancegdb-instanceoffered(CreateInstance)-import:home

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Choose the VPC. The VPC defines the virtual networking environment for this DB instance.

Default VPC (vpc-0e42b04dc524d62b)

Only VPCs with a corresponding DB subnet group are listed.

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.

default

Public access info

☒ Yes

RDS assigns a public IP address to the database. Amazon EC2 instances and other resources inside 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

Choose one or more options

default X

Availability Zone info

No preference

Additional configuration

Database authentication

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Database authentication

Database authentication options info

☒ Password authentication

Authenticate using database passwords.

☐ Password and IAM database authentication

Authenticate using the database password and user credentials through AWS IAM users and roles.

Monitoring

Monitoring

☐ Enable Enhanced monitoring

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

Additional configuration

Database options, encryption turned on, backup turned on, backup 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.

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The screenshot shows the Amazon RDS console for an instance named 'database-1'. The instance is in the 'Available' state. The console displays various tabs like Summary, Connectivity & security, Monitoring, Logs & events, Configuration, Maintenance & backups, and Tags. The 'Connectivity & security' tab is active, showing details for Endpoint & port, Networking, and Security.

Summary			
DB identifier database-1	CPU 2.77%	Status Available	Class db.t3.micro
Role Instance	Current activity 0 Connections	Engine MySQL	Region & AZ us-east-1d

Connectivity & security		
Endpoint & port Endpoint database-1.cjwr7mweuab1.us-east-1.rds.amazonaws.com Port 3306	Networking Availability Zone us-east-1d VPC vpc-0a42b04dc5244e2b Subnet group default-vpc-0a42b04dc5244e2b Subnets subnet-0f5ee45911384d5ed subnet-0c38e038162899d8 subnet-0682315c4350c5d75 subnet-0985ef1c846750b2	Security VPC security groups sg-0382056adb-a1c1c59 Active Publicly accessible Yes Certificate authority rds-ca-2019 Certificate authority date August 22, 2024, 22:38 (UTC+05:30)

