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## Module 7: Aurora Assignment

AWS Solutions Architect Training

### Problem Statement:

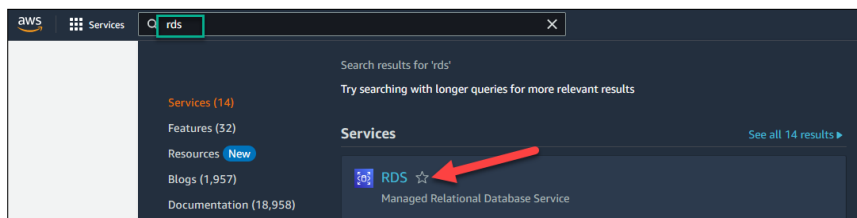
You work for TechArkit Corporation. Their application requires a SQL service that can store data that can be retrieved. Implement a suitable RDS engine for the same.

While migrating, you are asked to perform the following tasks:

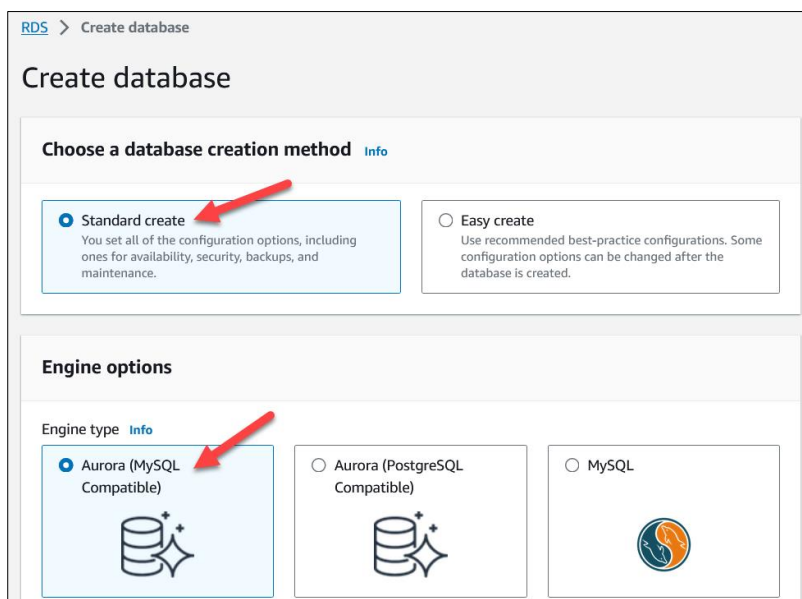
1. Create an Aurora DB Engine-based RDS Database.
2. Create 2 Read Replicas in different availability zones for better infrastructure availability.

### Answer

Login to AWS Management Console <https://ap-south-1.console.aws.amazon.com/console/home?region=ap-south-1#> Search for RDS service → Click on RDS.



### Create Database



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## Select Aurora

### 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.

### Settings

**DB cluster identifier** [Info](#)  
Enter a name for your DB cluster. The name must be unique across all DB clusters owned by your AWS account in the current AWS Region.

The DB cluster identifier is case-insensitive, but is stored as all lowercase (as in "mydbcluster"). 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 32 alphanumeric characters. The first character must be a letter.

## Provide database instance name and credentials

**Cluster storage configuration - new** [Info](#)  
Choose the storage configuration for the Aurora DB cluster that best fits your application's price predictability and price performance needs.

**Configuration options**  
Database instance, storage, and I/O charges vary depending on the configuration. [Learn more](#) [🔗](#)

☒ **Aurora Standard**

- Cost-effective pricing for many applications with moderate I/O usage (I/O costs <25% of total database costs).
- Pay-per-request I/O charges apply. DB instance and storage prices don't include I/O usage.

☐ **Aurora I/O-Optimized**

- Predictable pricing for all applications. Improved price performance for I/O-intensive applications (I/O costs >25% of total database costs).
- No additional charges for read/write I/O operations. DB instance and storage prices include I/O usage.

## Select the storage type based on the IO requirement

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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](#)

- ☐ Serverless v2
- ☒ Memory optimized classes (includes r classes)
- ☐ Burstable classes (includes t classes)

db.r6g.2xlarge

8 vCPUs 64 GiB RAM Network: 4,750 Mbps

☐ Include previous generation classes

### Instance configuration options and instance type

#### Availability & durability

Multi-AZ deployment [Info](#)

- ☐ Don't create an Aurora Replica
- ☒ Create an Aurora Replica or Reader node in a different AZ (recommended for scaled availability)

Creates an Aurora Replica for fast failover and high availability.

#### 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.

### Create Aurora Replica or Reader node in different AZ

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

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

Default VPC (vpc-0153e269)

3 Subnets, 3 Availability Zones

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 cluster can use in the VPC that you selected.

default-vpc-0153e269

3 Subnets, 3 Availability Zones

#### Public access [Info](#)

- ☒ Yes
- RDS assigns a public IP address to the cluster. Amazon EC2 instances and other resources outside of the VPC can connect to your cluster. Resources inside the VPC can also connect to the cluster. Choose one or more VPC security groups that specify which resources can connect to the cluster.
- ☐ No
- RDS doesn't assign a public IP address to the cluster. Only Amazon EC2 instances and other resources inside the VPC can connect to your cluster. Choose one or more VPC security groups that specify which resources can connect to the cluster.

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Select VPC, Subnets and Availability zones you required to create AuroraDB and read-replica

Then Click Create Database.

✓ Successfully created database **myaurora**

You can use settings from myaurora to simplify configuration of [suggested database add-ons](#) while we finish creating your DB for you.

Databases (3)								
			<input checked="" type="checkbox"/> Group resources		Modify	Actions	Restore from S3	Create database
Filter by databases								
< 1 >								
<input type="checkbox"/> DB identifier	Status	Role	Engine	Region & AZ	Size	Actions	CPU	
<input type="radio"/> <a href="#">myaurora</a>	✓ Available	Regional cluster	Aurora MySQL	ap-south-1	2 instances	2 Actions		
<input type="radio"/> <a href="#">myaurora-instance-1</a>	✓ Available	Writer instance	Aurora MySQL	ap-south-1c	db.r6g.2xlarge	-		
<input type="radio"/> <a href="#">myaurora-instance-1-ap-south-1a</a>	⌚ Creating	Reader instance	Aurora MySQL	ap-south-1a	db.r6g.2xlarge	-		

Read-replica also created.

Question completed.