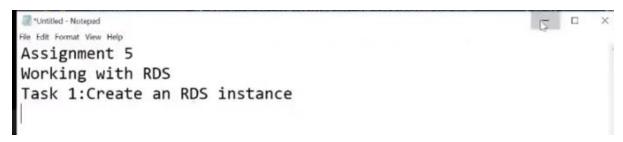
Assignments

Day 5: Assignments 4:



While creating RDS:

Add different stages of the instance.

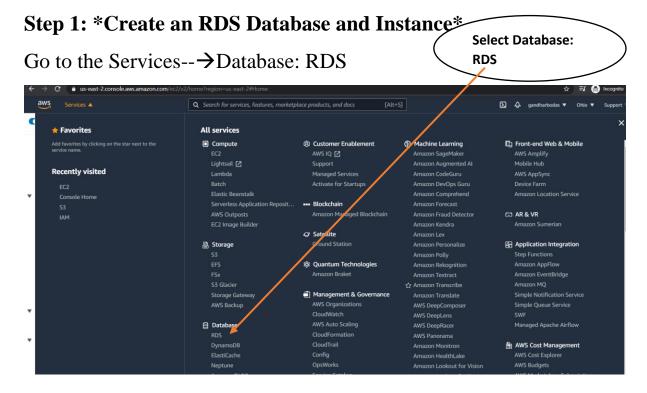
Include snapshot of every stages i.e., what is the multi high availability you have chosen,

What is the type of storage you have chosen, what is the type of database engine you have chosen?

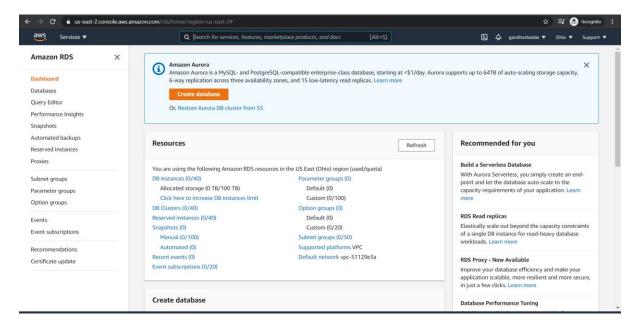
List the RDS instances under the RDS console as well.

Answer:

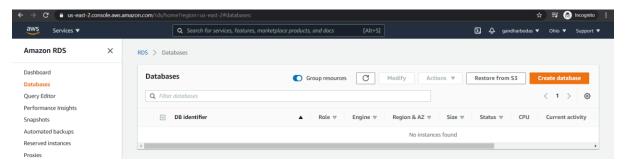
Part 1: MySQL: Templates: Production:



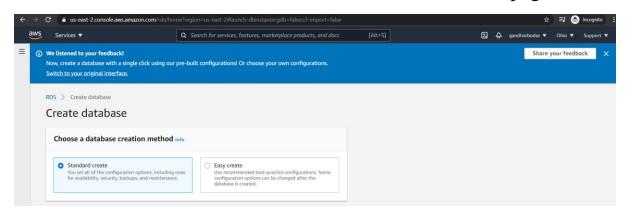
Now you will be able to see the Amazon RDS page as below. Click on Database which is on left hand side:

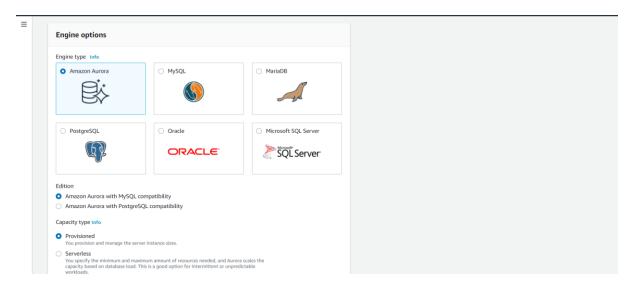


After click on "Database" option you can able to see the below page:



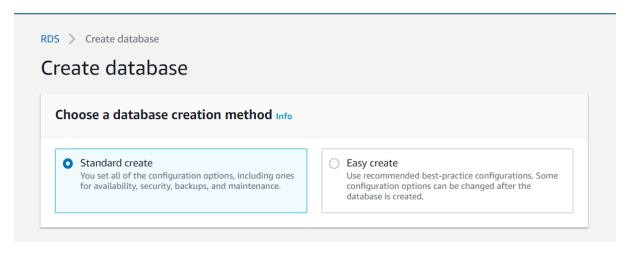
Now click on "Create database" button and see the below page:





In this let's go with the below details: Select options as below:

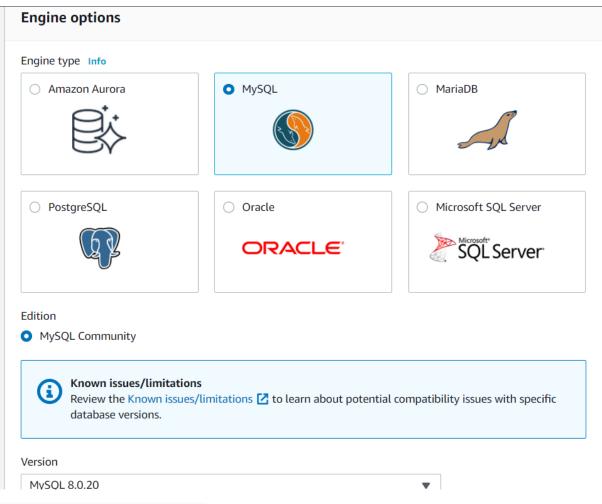
Database creation method: "Standard create"



Engine options: MySQL.

Edition: MySQL Community

Version: MySQL 8.0.20



Templates: Production.



Settings:

DB instance identifier: database-new

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. database-new

The DB instance identifier is case-insensitive, but is stored as all lowercase (as in "mydbinstance"). Constraints: 1 to 60 alphanumeric characters or hyphens (1 to 15 for SQL Server). First character must be a letter. Can't contain two consecutive hyphens. Can't end with a hyphen.

Credentials Settings: Master username: admin

Master password : admin Confirm password: admin

Master username Info	
	ister user of your DB instance.
admin	
1 to 16 alphanumeric cha	racters. First character must be a letter
Auto generate a p	assword
Amazon RDS can gen	erate a password for you, or you can specify your own password
Amazon RDS can gen	
	erate a password for you, or you can specify your own password
	erate a password for you, or you can specify your own password
Master password Info	erate a password for you, or you can specify your own password
Master password Info	erate a password for you, or you can specify your own password ntable ASCII characters. Can't contain any of the following: / (slash), '(single quote), "(double quote) and @

DB instance class: Standard classes (includes m classes)

DB instance class

DB instance class Info Choose a DB instance class that meets your processing power and memory requirements. The DB instance class options below are limited to those supported by the engine you selected above. Standard classes (includes m classes) Memory optimized classes (includes r and x classes) Burstable classes (includes t classes) db.m6g.large 2 vCPUs 8 GiB RAM Network: 4,750 Mbps New instance classes are available for specific engine versions. Info Include previous generation classes

Storage:

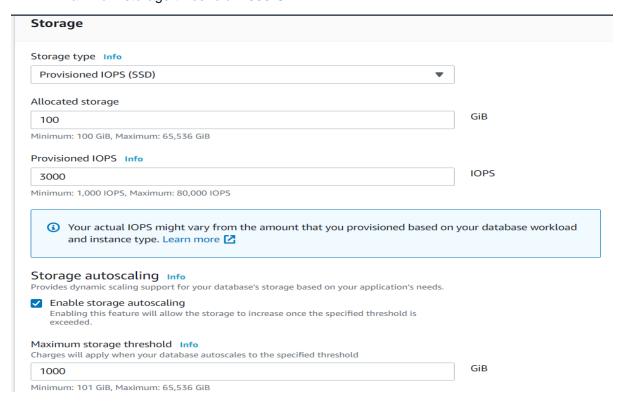
Storage type: Provisioned IOPS (SSD)

Allocated storage: 100 GB Provisional IOPS: 3000 IOPS

Storage autoscaling Info:

Tick check box "Enable storage autoscaling" and

Maximum storage threshold: 1000 GiB.



Availability & durability:

Multi-AZ deployment: Do not create a standby instance



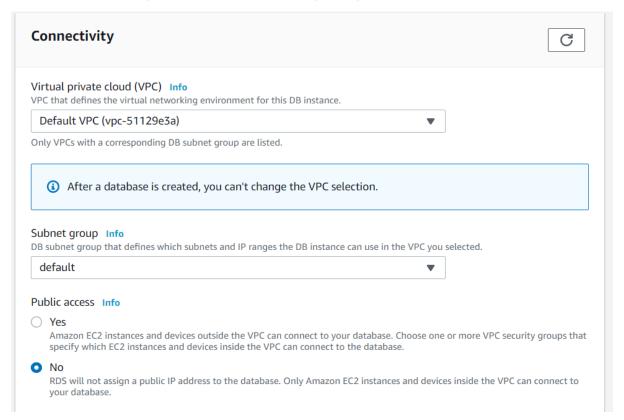
Connectivity:

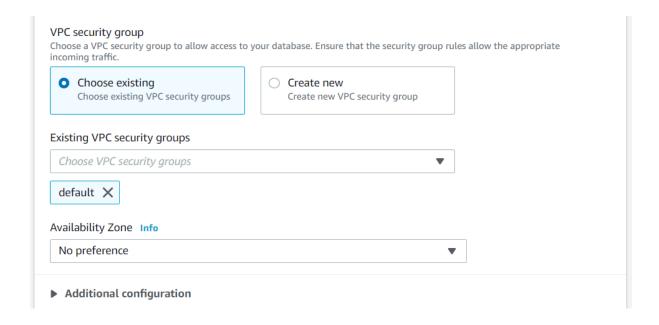
Virtual private cloud (VPC)Info: Default VPC (vpc-51129e3a)

Subnet group: default

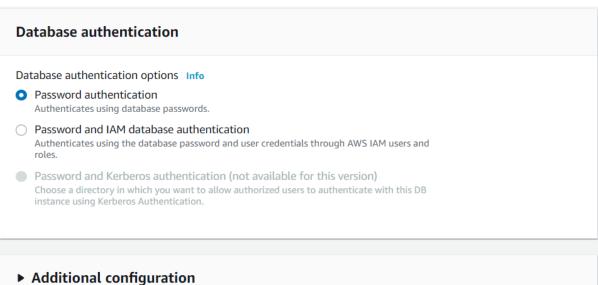
Public access: No

VPC security group: Keep as it is. Nothing changed.

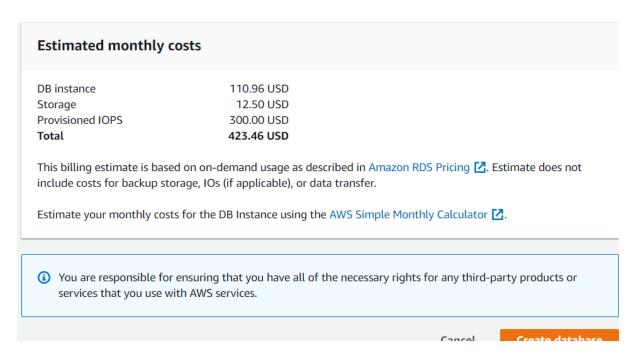




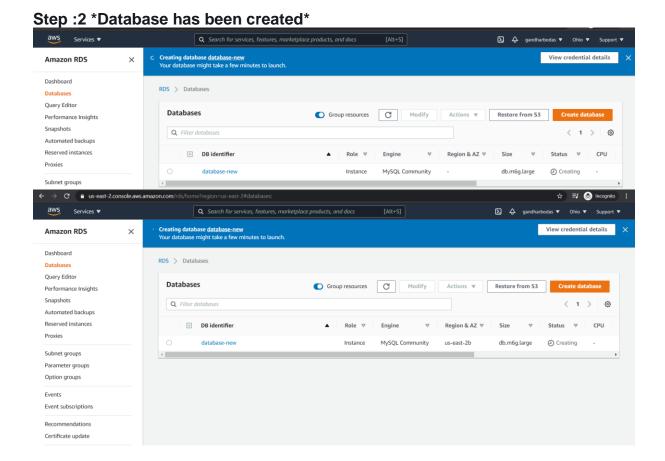
Database authentication: Keep as it is. Nothing changed.



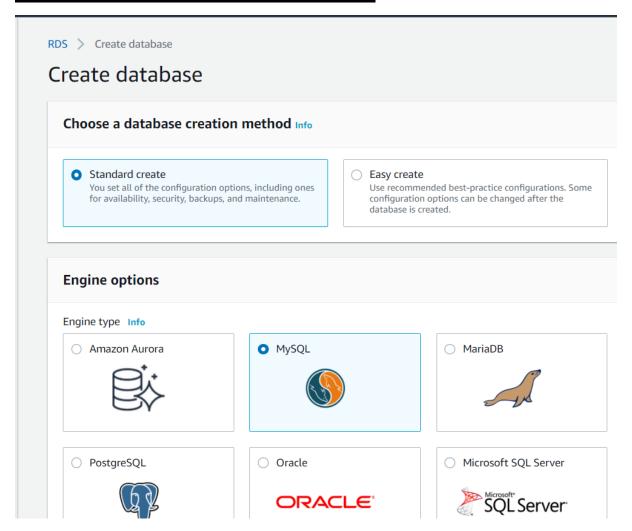
Database options, encryption enabled, backup enabled, backtrack disabled, Performance Insights enabled, Enhanced Monitoring enabled, maintenance, CloudWatch Logs, delete protection enabled

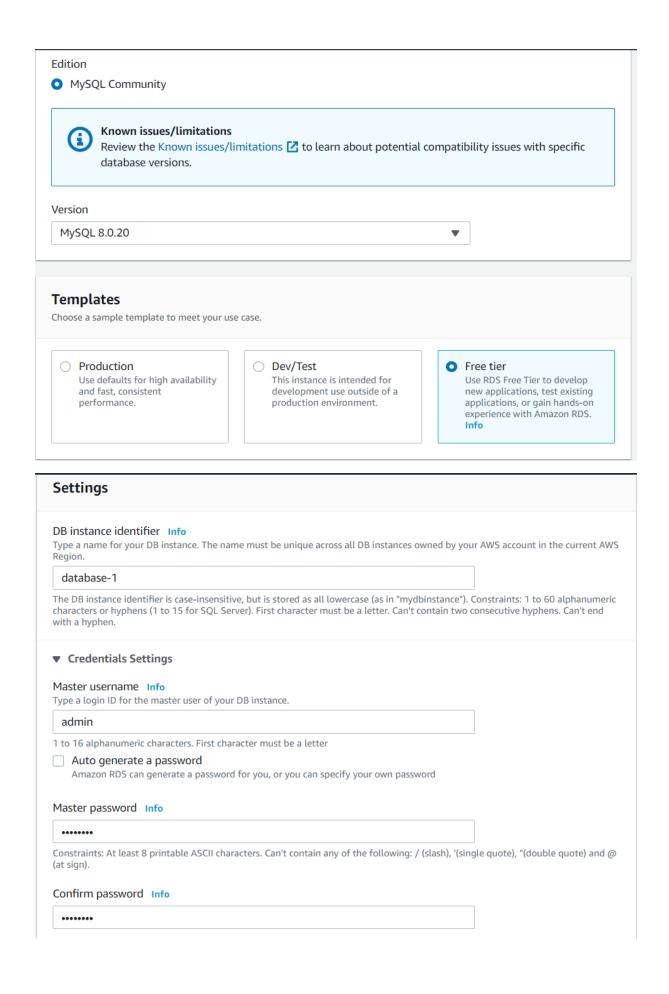


Once done these all settings clicked on "Create database button"

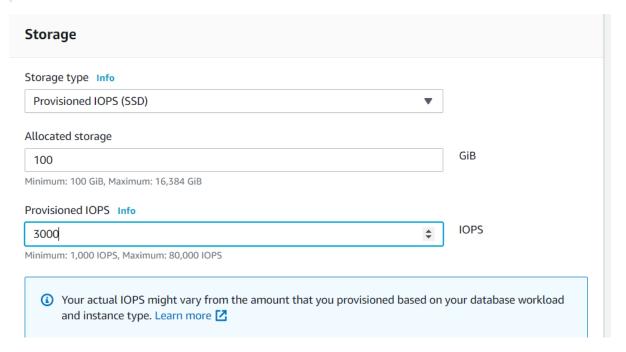


Part 1: MySQL: Templates : Free Tier:





DB instance class Info Choose a DB instance class that meets your processing power and memory requirements. The DB instance class options below are limited to those supported by the engine you selected above. Standard classes (includes m classes) Memory optimized classes (includes r and x classes) Burstable classes (includes t classes) db.t2.micro 1 vCPUs 1 GiB RAM Not EBS Optimized New instance classes are available for specific engine versions. Info Include previous generation classes



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 once the specified threshold is exceeded.

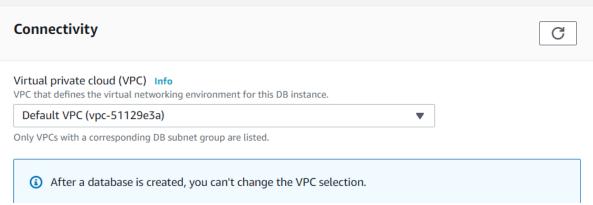
Maximum storage threshold Info

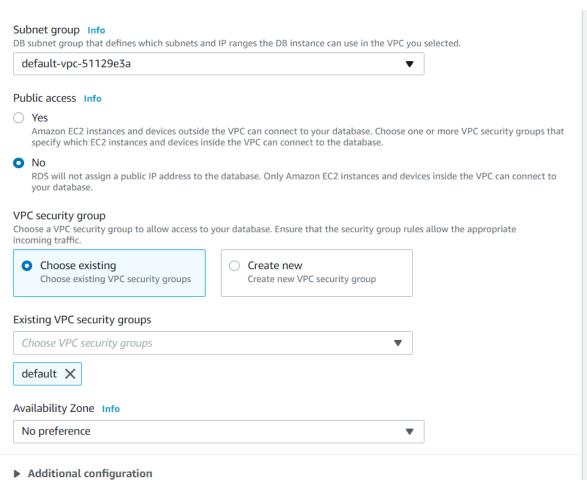
Charges will apply when your database autoscales to the specified threshold

1000 GiB

Minimum: 101 GiB, Maximum: 16,384 GiB

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, eliminate I/O freezes, and minimize latency spikes during system backups. Do not create a standby instance





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 (not available for this version) Choose a directory in which you want to allow authorized users to authenticate with this DB instance using Kerberos Authentication.

Additional configuration

Database options, backup enabled, backtrack disabled, Enhanced Monitoring disabled, maintenance, CloudWatch Logs, delete protection disabled

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:

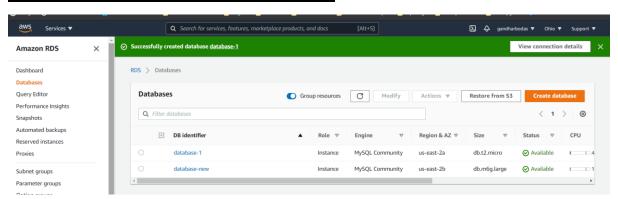
- 750 hrs of Amazon RDS in a Single-AZ db.t2.micro Instance.
- 20 GB of General Purpose Storage (SSD).
- 20 GB for automated backup storage and any user-initiated DB Snapshots.

Learn more about AWS Free Tier. <a>

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.

3 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.

Total: 2 Instances has been created:



END