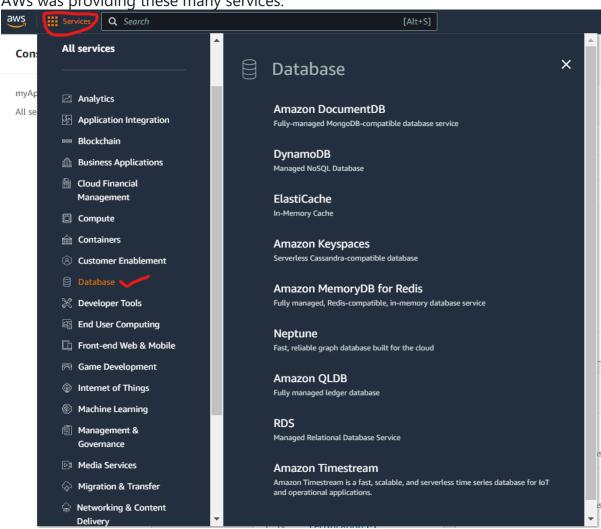
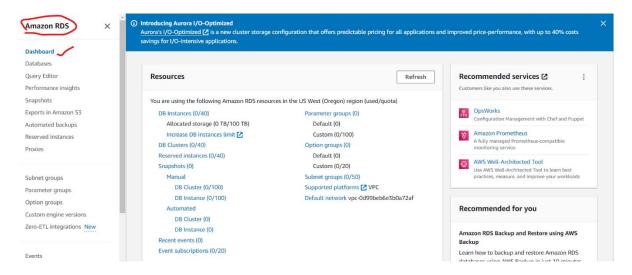
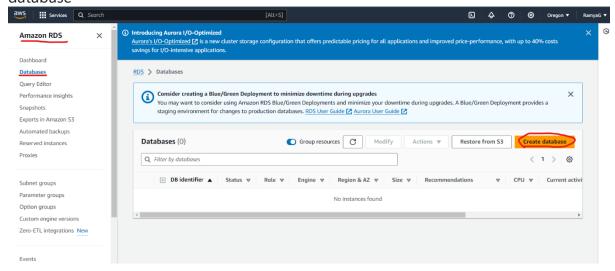
What are the Databases services provided by AWS?

AWs was providing these many services.



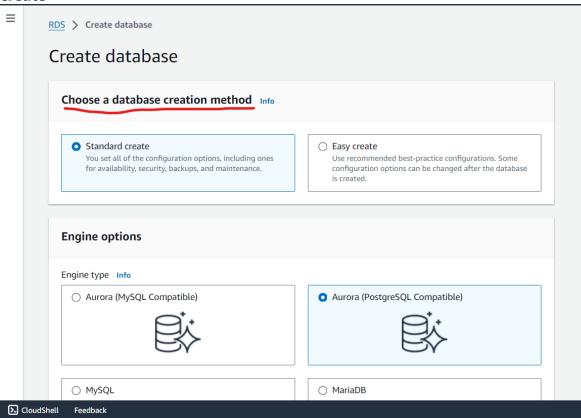


Lets create our first database

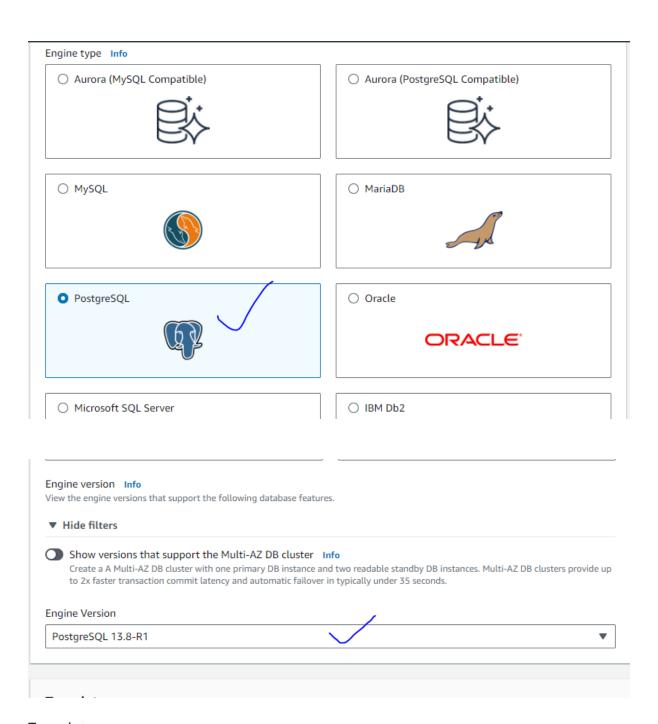


- Choose a database creation method.
- ii. Standard

create



- o Engine Options
 - Engine type
 - Engine version



Templates

Templates

Choose a sample template to meet your use case.

Production

Use defaults for high availability and fast, consistent performance.

O Dev/Test

This instance is intended for development use outside of a production environment.

Free tier

Use RDS Free Tier to develop new applications, test existing applications, or gain hands-on experience with Amazon RDS.

Availability and durability

Deployment options Info

The deployment options below are limited to those supported by the engine you selected above.

- Multi-AZ DB Cluster
 Creates a DB cluster with a primary DB instance and two readable standby DB instances, with each DB instance in a different Availability Zone (AZ). Provides high availability, data redundancy and increases capacity to serve read workloads.
- Multi-AZ DB instance (not supported for Multi-AZ DB cluster snapshot)
 Creates a primary DB instance and a standby DB instance in a different AZ. Provides high availability and data redundancy, but the standby DB instance doesn't support connections for read workloads.
- Single DB instance (not supported for Multi-AZ DB cluster snapshot)
 Creates a single DB instance with no standby DB instances.

Settings

DB instance identifer

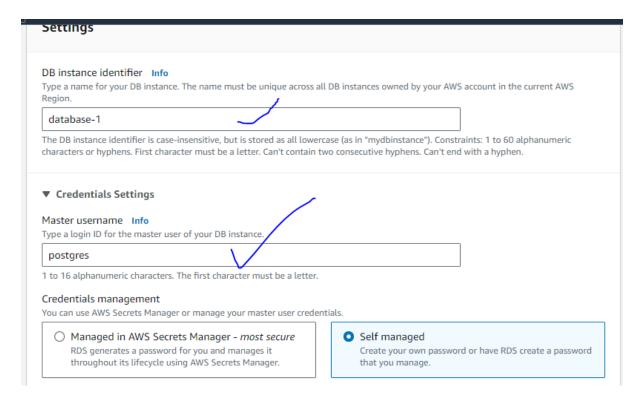
We need to give name for the DB instance

Credentials Settings

Master username

Credentials management

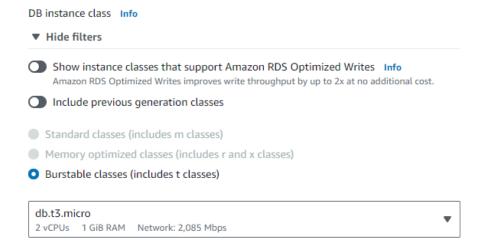
Master password



Instance configuration

Instance configuration

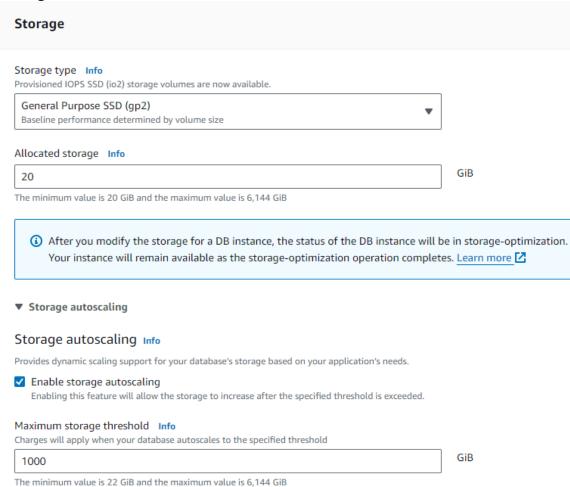
The DB instance configuration options below are limited to those supported by the engine that you selected above.



- Standard Classes
 - Standard instances provide a balance of compute, memory, and network resources. They are a good choice for many database workloads.
- Memory optimized classes
 - Memory optimized instances accelerate performance for workloads that process large data sets in memory.
- Burstable classes

 Burstable performance instances provide a baseline level of CPU performance with the ability to burst above the baseline.

Storage



Storage

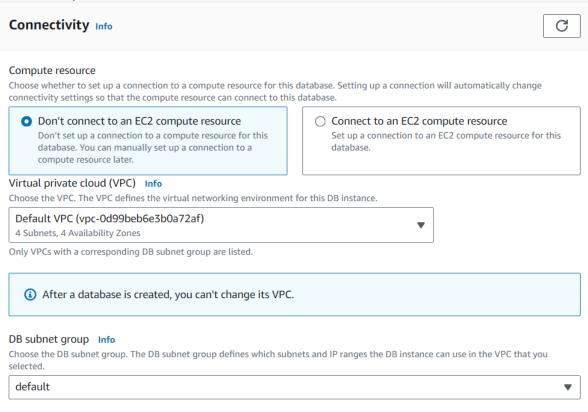
type

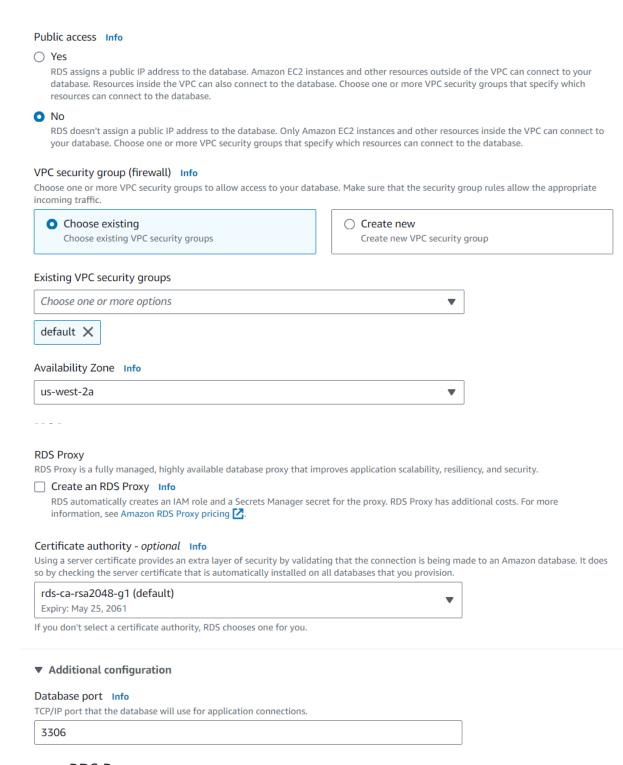
Storage type Info

Provisioned IOPS SSD (io2) storage volumes are now available.

General Purpose SSD (gp2) Baseline performance determined by volume size General Purpose SSD (gp2) Baseline performance determined by volume size General Purpose SSD (gp3) Performance scales independently from storage Provisioned IOPS SSD (io1) Flexibility in provisioning I/O Provisioned IOPS SSD (io2) Low latency, highly durable, I/O intensive storage Magnetic Limited to a maximum of 1,000 IOPS (not recommended)

- Allocated storage
- Storage autoscaling
- Connectivity





- RDS Proxy
 - RDS Proxy allows your applications to pool and share database connections to help them scale. An RDS proxy simplifies connection management and makes applications more resilient to database failures.

Database authentication

Tags A tag consists of a case-sensitive key-value pair.			
Key	Value - optional		
Q Name X	Q trail	×	Remove
Add new tag You can add up to 49 more tags.			
Database authentication			
Database authentication options Info			
 Password authentication Authenticates using database passwords. 			
 Password and IAM database authentical Authenticates using the database password and 	tion nd user credentials through AWS IAM users and I	roles.	
Password and Kerberos authentication Choose a directory in which you want to allow instance using Kerberos Authentication.	authorized users to authenticate with this DB		

- Password authentication
 - Manage your database user credentials through your DB engine's native password authentication features.
- Password and IAM database authentication
 - Manage your database user credentials through your DB engine's native password authentication features and IAM users and roles.
- Password and Kerberos authentication
 - Manage your database user credentials through your DB engine's native password authentication features and an AWS Managed Microsoft AD created with AWS Directory Service.
- 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

▼ Additional configuration

Database options, encryption turned on, backup turned on, backtrack turned off, maintenance, CloudWatch Logs, delete protection turned off.

Database options
Initial database name Info
If you do not specify a database name, Amazon RDS does not create a database.
DB parameter group Info
default.mysql8.0 ▼
Option group Info
default:mysql-8-0 ▼
Backup retention period Info The number of days (1-35) for which automatic backups are kept. 1
The daily time range (in UTC) during which RDS takes automated backups.
Choose a window
No preference
✓ Copy tags to snapshots
Backup replication Info
☐ Enable replication in another AWS Region Enabling replication automatically creates backups of your DB instance in the selected Region, for disaster recovery, in addition to the current Region.

Encryption

Enable encryption

Choose to encrypt the given instance. Master key IDs and aliases appear in the list after they have been created using the AWS Key

Management Service console. Info
AWS KMS key Info
(default) aws/rds
Account
520261045384
KMS key ID
alias/aws/rds
Log exports
Select the log types to publish to Amazon CloudWatch Logs Audit log Error log General log Slow query log AM role The following service-linked role is used for publishing logs to CloudWatch Logs. RDS service-linked role
laintenance
uto minor version upgrade Info
Enable auto minor version upgrade Enabling auto minor version upgrade will automatically upgrade to new minor versions as they are

Au

released. The automatic upgrades occur during the maintenance window for the database.

Maintenance window Info

Select the period you want pending modifications or maintenance applied to the database by Amazon RDS.

- O Choose a window
- 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.

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. [2]

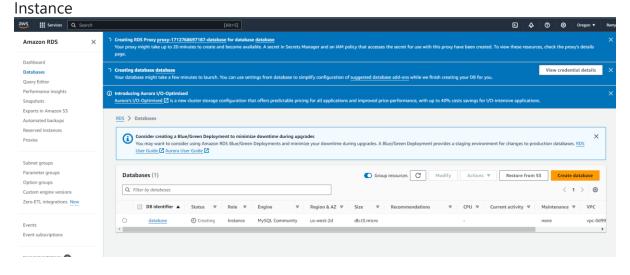
When your free usage expires or if your application use exceeds the free usage tiers, you simply pay standard, pay-as-you-go service rates as described in the Amazon RDS Pricing page.

(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.

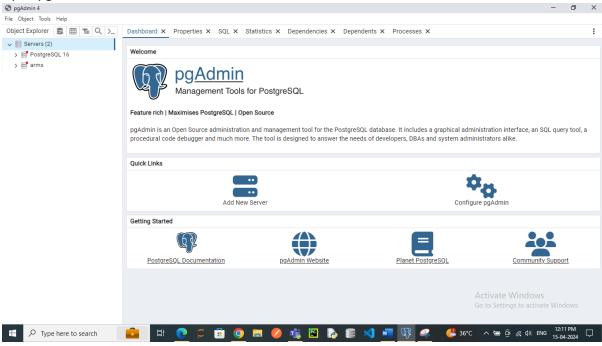
Cancel



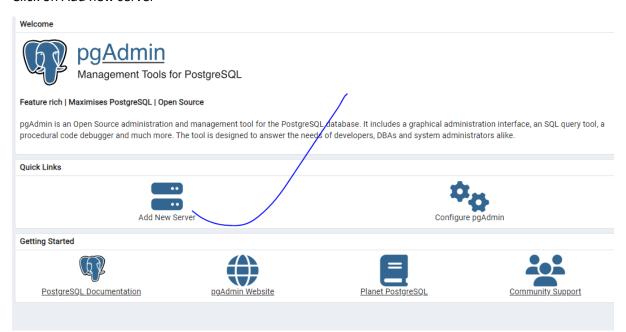
Creating the AWS RDS



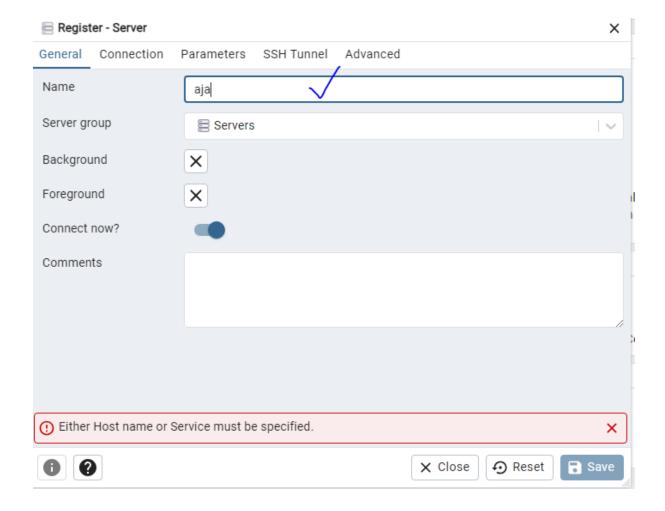
Open pgadmin:



Click on Add new server

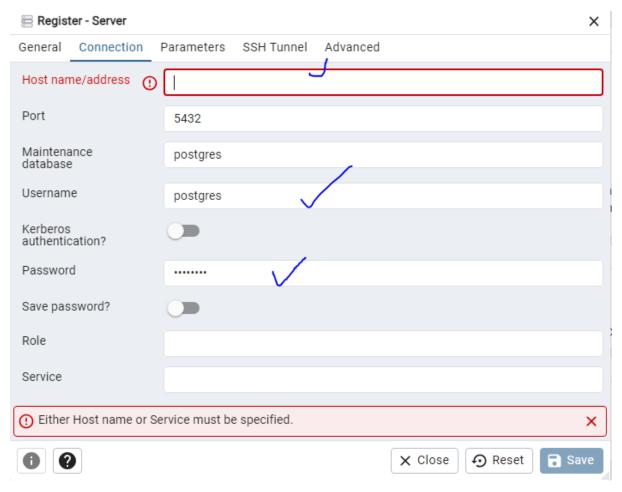


Enter name of the server



Click on connection tab and enter the host name given in rds

Enter username and password given in rds



Click on save

Connections is established