

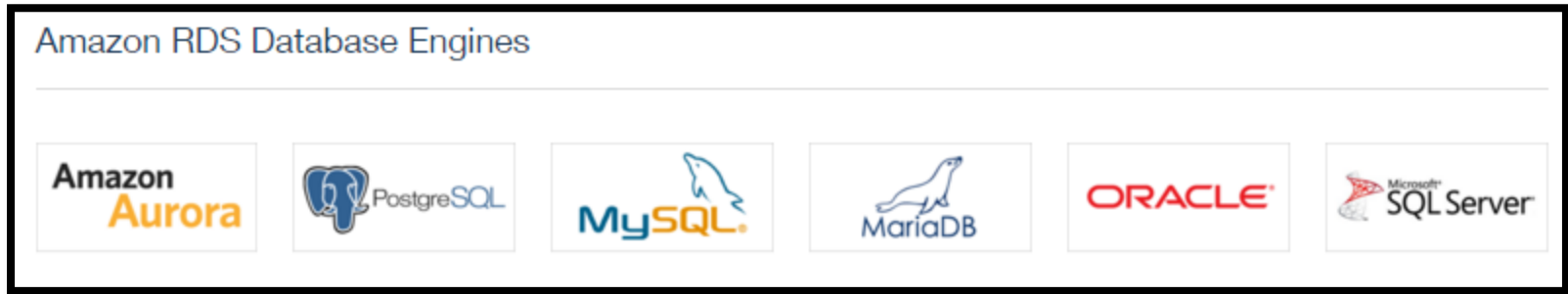
Amazon Relational DataBase Service (RDS)

Amazon RDS-overview

RDS is completed managed data base service,below are the benefits of using RDS

- No need launch a EC2 instance
- No Need Install and manage database servers
- No need to setup replication (primary database on instance A and secondary database on instance B)
- Even minor upgrade of your database version are taken care by AWS

Amazon RDS provides you six familiar database engines to choose from, including any one of the below



Amazon RDS- Point to remember

High Availability

- When you provision a [Multi-AZ](#) DB Instance, Amazon RDS creates a Primary RDS instance in one of the AZ and synchronously replicates the data to a standby instance in a different Availability Zone (AZ).
- Secondary DB instance is always in Read only mode until primary DB is functioning. When primary DB fails AWS automatically points to secondary as set it into Read/write mode

Read replica

- You can create a Read Replica with a few clicks in the AWS Management Console or using the `CreateDBInstanceReadReplica` API.
- You can create multiple Read Replicas (upto 5) for a given source DB Instance and distribute your application's read traffic amongst them

Amazon RDS- Multi AZ deployment

In Multi AZ deployment ,Below are the characteristics

- Primary Database will act as Primary Database server (read/write mode)
- Secondary Database will act as secondary database server (read Only Mode)
- When a primary fails the secondary is promoted as to READ /write mode
- When the primary comes back the secondary data server writes are re-synched with Primary.And primary take the the ownership or role of primary DB again
- In Multi AZ the RDS are automatically deployed in two different availability zones by AWS
- In Single AZ deployment ,you have a single Data server deployed in single Availability zone and is single point of failure

Thank You