**RELATIONAL DATABASE SERVICE**

Amazon Relational Database Service (Amazon RDS) is a web service that makes it easier to set up, operate, and scale a relational database in the AWS Cloud. It provides cost-efficient, resizable capacity for an industry-standard relational database and manages common database administration tasks.

**ADVANTAGES:**

* It follows Pay as You Go Model.
* Security & Patching
* Automated Backup
* Software updates for the DB engine
* If selected, multi Az’s with synchronous Replication between the active and standard DB Instances.
* Automatic flavors if the multi-Az option was selected.
* By Default, Every DB has a weekly maintenance window (max 35 days).

**SETTINGS MANAGED BY THE USER:**

* Managing DB settings
* Creating Relational Database schema
* Database performance Tuning.

**RELATIONAL DATABASE ENGINE OPTIONS:**

* MS SQL Server
* MY SQL
* Oracle
* AWS aurora
* Postgre SQL
* Maria DB

**LICENSING OPTIONS:**

* BYOL (Bringing your Own License)
* License from AWS on hourly basis

**RDS LIMITS:**

* Upto 40 DB instances per Account.
* 10 of these 40 can be Oracle or MS SQL server under license included model.
* Under the BYOL model, all 40 can be any DB Engine you need.

**RDS INSTANCE STORAGE:**

AMAZON RDS use EBS (Elastic Block Storage) volumes for DB and logs storage. We have 2 options in instance storages in RDS.

1. General Purpose: It is used for DB workloads with moderate I/O requirements.

Min – 20 GB

Max – 16384 GB

1. Provisional IOPS RDS Storage – used for high-performance OLTP workloads.

Min – 100 GB

Max – 16384 GB

**TEMPLATES AVAILABLE IN RDS:**

* **PRODUCTION –** Use defaults for high availability, fast and consistence performance.
* **DEV / TESTING –** This is used for the development team. It is out side of the Production Env.
* **FREE TIER –** Used for Free – Tier to develop new apps, test existing apps, or gains hands on experience with Amazon RDS.