

*RDS on AWS

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AWS RDS Overview



- RDS stands for Relational Database Service
- It's a managed DB service for DB use SQL as a query language.
- It allows you to create databases in the cloud that are managed by AWS
 - Postgres
 - MySQL
 - MariaDB
 - Oracle
 - Microsoft SQL Server
 - Aurora (AWS Proprietary database)

Advantage over using RDS versus deploying DB on EC2

- RDS is a managed service:
 - Automated provisioning, OS patching
 - Continuous backups and restore to specific timestamp (Point in Time Restore)!
 - Monitoring dashboards
 - Read replicas for improved read performance
 - Multi AZ setup for DR (Disaster Recovery)
 - Maintenance windows for upgrades
 - Scaling capability (vertical and horizontal)
 - Storage backed by EBS (gp2 or io1)
- BUT you can't SSH into your instances

RDS Backups

- Backups are automatically enabled in RDS
- Automated backups:
 - Daily full backup of the database (during the maintenance window)
 - Transaction logs are backed-up by RDS every 5 minutes
 - => ability to restore to any point in time (from oldest backup to 5 minutes ago)
 - 7 days retention (can be increased to 35 days)

- DB Snapshots:
 - Manually triggered by the user
 - Retention of backup for as long as you want