Cloud Computing
Amazon-RDS

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Introduction

Amazon RDS makes it easy to set up, operate, and scale a relational database in the cloud. It provides cost-efficient and resizable capacity while automating time-consuming administration tasks such as hardware provisioning, database setup, patching and backups. It frees us to focus on our applications so we can give them the fast performance, high availability, security and compatibility user need.

Databases

Every application needs a place to store data from users, devices, and the application itself. Databases are important backend systems that are used to store, manage, update, and analyze data for all types of applications, from small back-office systems to mobile and consumer web applications with global scale

Types of database

Amazon RDS gives you access to several familiar database engines, including

- Amazon Aurora,
- MySQL,
- PostgreSQL,
- MariaDB,
- Oracle
- SQL Server.

This means that the code, applications, and tools we already use with our existing databases can be used with Amazon RDS.

Amazon RDS is available on several database instance types - optimized for memory, performance or I/O - and provides us with six familiar database engines to choose from, including Amazon Aurora, PostgreSQL, MySQL, MariaDB, Oracle Database, and SQL Server. We can use the AWS Database Migration Service to easily migrate or replicate our existing databases to Amazon RDS.

Abbreviation

AWS ADS-Amazon Relational Database Service

Features

Easy to administer
Scalable
Fast
Secure
Inexpensive

Real Time Application

Amazon RDS for MySQL, MariaDB, and PostgreSQL enable us to create Read Replicas to scale out beyond the capacity of a single database deployment for read-heavy database workloads. As with all Amazon Web Services, there are no up-front investments required, and you pay only for

the resources you use.Famous companies which are using aws RDS are Netflix,Unilever,etc.

Real-time applications such as caching, session stores, gaming leaderboards, ride-hailing, ad-targeting, and real-time analytics need microsecond latency and high throughput to support millions of requests per second. AWS offers high performance in-memory services that are purpose-built to power your real-time applications.

Some real time applications are:
Traditional applications, ERP, CRM, e-commerce.

Companies using aws:

Airbnb
Netflix
Amazon
Accenture
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