AWS Cloud
An Introduction
Elastic Compute Cloud::RDS

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About

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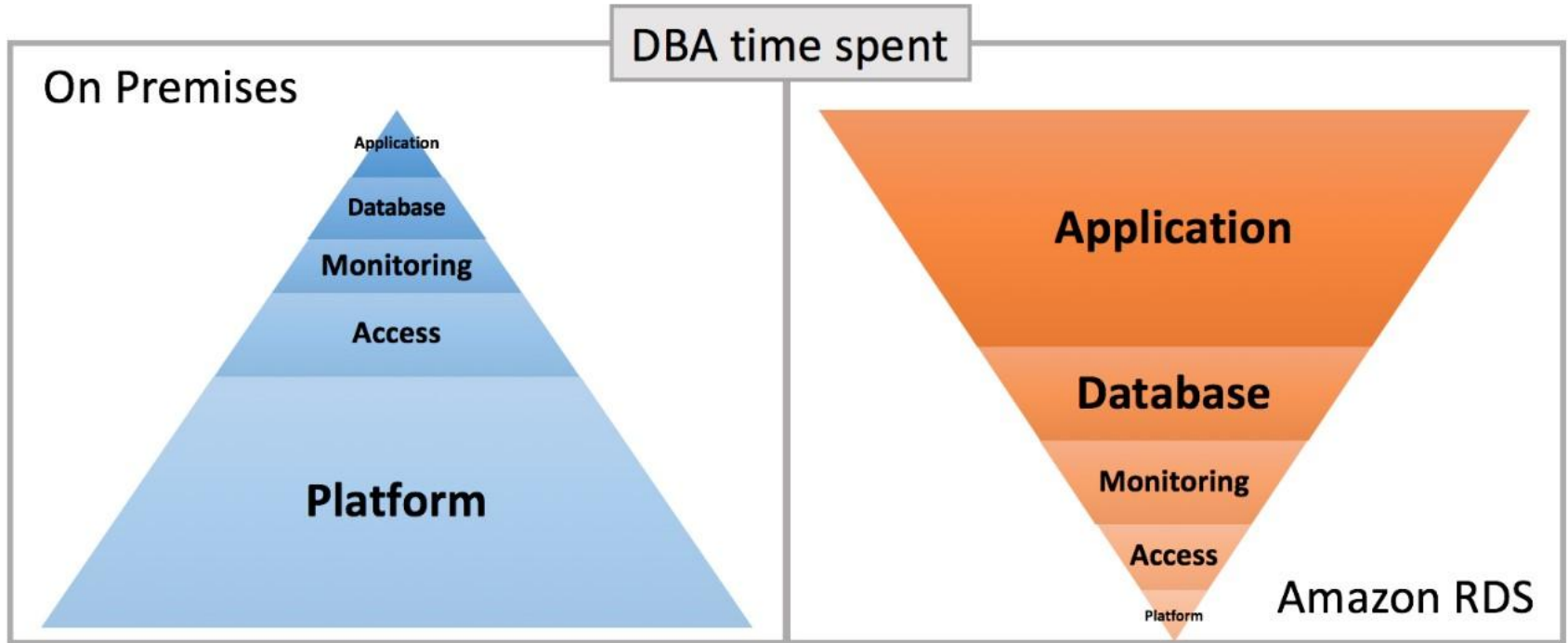
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Amazon Databases :: RDS

About RDS

- ✅ Managed Service
- ✅ Shared Responsibility - Security
- ✅ Commercial & Open Source
- ✅ Traditional EC2

Amazon Database Responsibility

Amazon RDS

Database Engines

- ✅ Oracle, MS-SQL
- ✅ MySQL, PostgreSQL, Maria DB
- ✅ RedShift
- ✅ Aurora (MySQL & PostgreSQL)

Amazon RDS

Managed

- ✅ Multi-AZ : High Availability
- ✅ Cross Region Replica : DR
- ✅ Encryption at-rest, transit
- ✅ CloudWatch : Monitoring

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Amazon Databases

Other DB Engines

- ✅ NoSQL
- ✅ Data Warehouse
- ✅ Big Data
- ✅ In Memory for Caching

Amazon Databases

Purpose Built Databases

- ✅ DynamoDB
- ✅ Keyspaces, DocumentDB
- ✅ ElastiCache (Redis, Memcached)
- ✅ Neptune, TimeStream, QLDB

Amazon Databases

Relational	Key-value	Document	Graph	In-memory	Search
Referential integrity with strong consistency, transactions, and hardened scale	Low-latency, key-based queries with high throughput and fast ingestion of data	Indexing and storing documents with support for queries on any property	Creating and navigating relations between data easily and quickly	Microsecond latency, key-based queries, specialized data structures	Indexing and searching semi-structured logs and data
Amazon Aurora, Amazon RDS	Amazon DynamoDB	Amazon DynamoDB	Amazon Neptune	Amazon ElastiCache for Redis & Memcached	Amazon Elasticsearch Service

Amazon Database Migration Service

STEP 1

Oracle Database
On-premises, in Amazon
EC2, or Amazon RDS
SOURCE

**AWS Schema
Conversion Tool**

**Amazon Aurora
Database**
TARGET

STEP 2

MySQL Database
On-premises, in Amazon
EC2, or Amazon RDS
SOURCE

**AWS Database
Migration Service**

**Amazon Aurora
Database**
TARGET

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Questions?