



AWS Databases



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Today's Takeaways



- ▶ Introduction to Database
- ▶ Amazon RDS
- ▶ MySQL Workbench



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Introduction to Database

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Introduction to Database

What is Database?



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Introduction to Database

Type of Database?

Relational/SQL

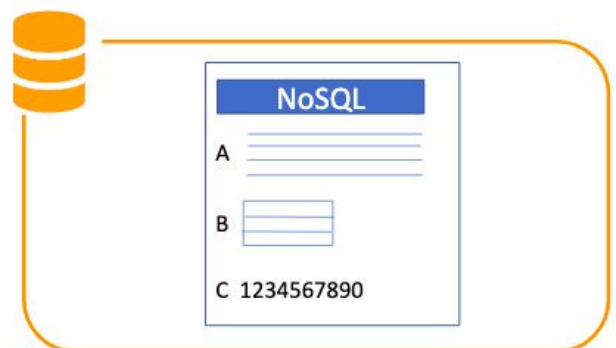
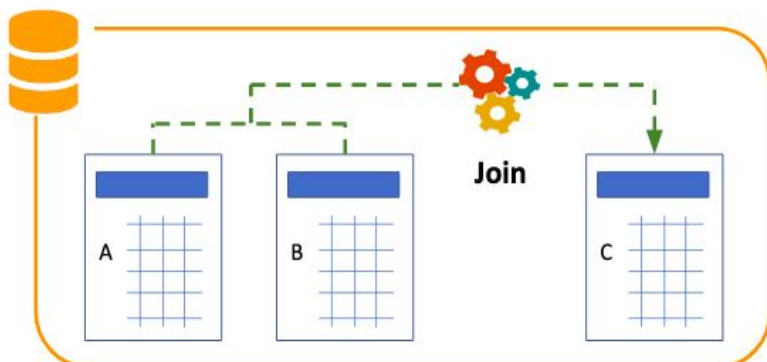
Non-Relational/NoSQL

Introduction to Database

Type of Database?

Relational/SQL

Non-Relational/NoSQL



Introduction to Database

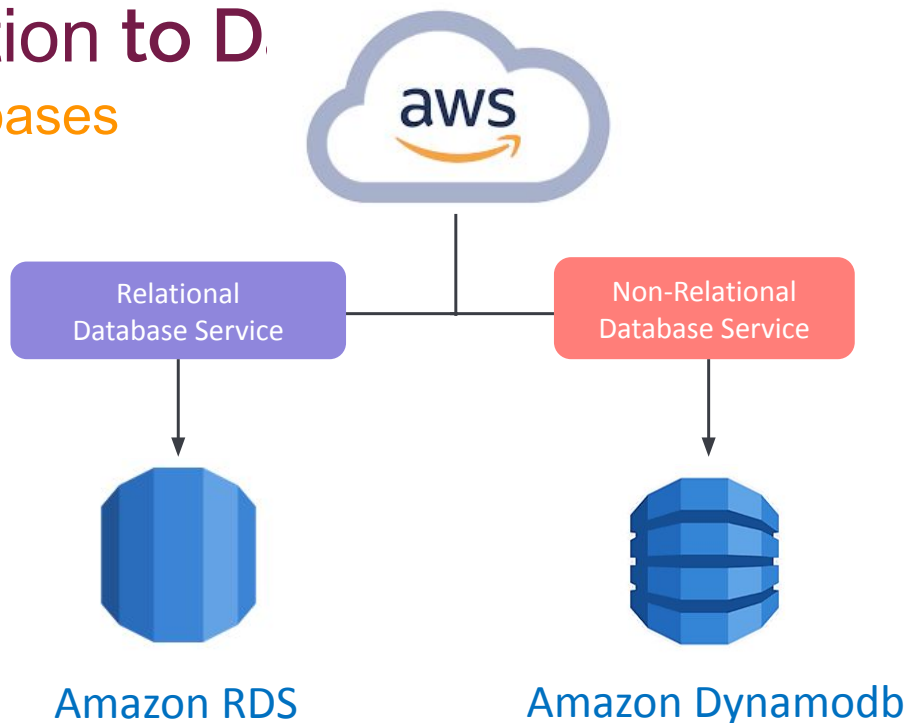
Type of Database?



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AWS Databases



Introduction to Database

SQL vs. NoSQL ?

SQL	NoSQL
Relational	Non-Relational
Table-based	Document-based, key-value pairs, graph databases or wide-column stores
Predefined Schema	Dynamic Schema
Uses SQL	As the name suggest, it doesn't use SQL
Used for complex queries	Used for simple queries
Available for Join function	Not available for Join function

2 Amazon RDS

RDS

What is RDS?



Amazon RDS



RDS

Basic Components



Amazon RDS



EC2

Database Engines

AMI

DB Instance

Instance Type

Storage Disk

Storage Disk/
Root Volume

PostgreSQL

MariaDB



db.t2.micro



t2.micro



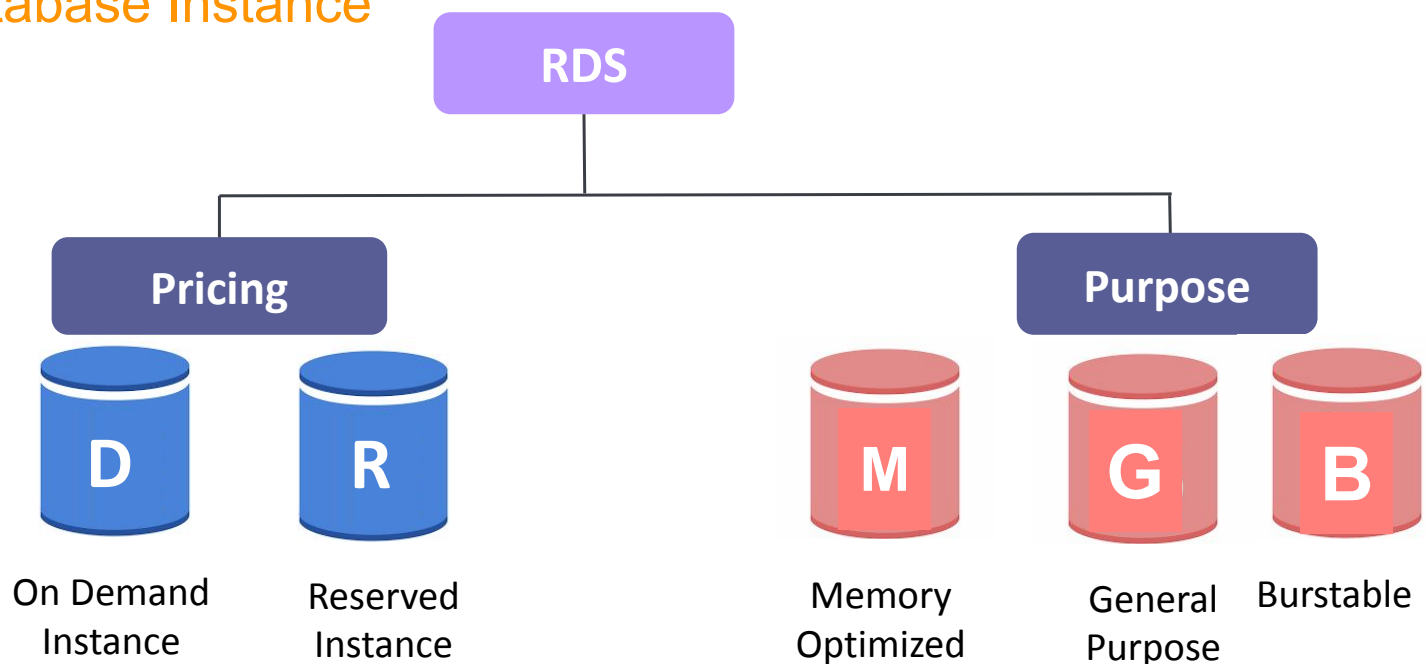
RDS

Database Engines



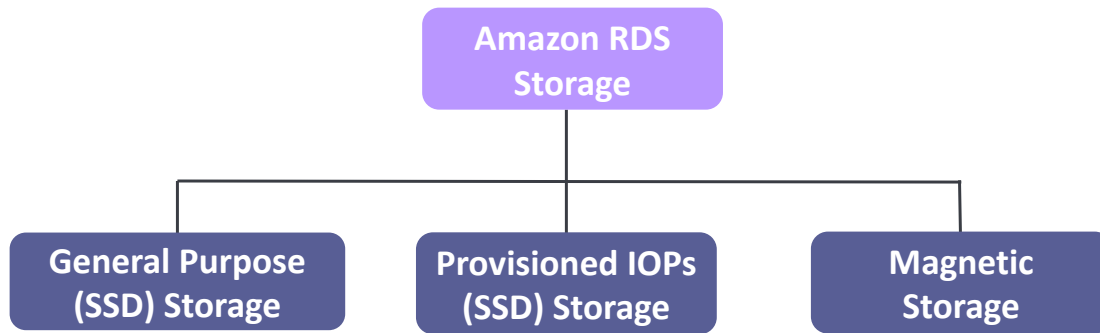
RDS

Database Instance



RDS

Instance Storage



Cost-effective

Fast and consistent I/O

Not recommended

There is an important factor in the databases as much as CPU and RAM power, which is the value of **IOPs of storage**

RDS

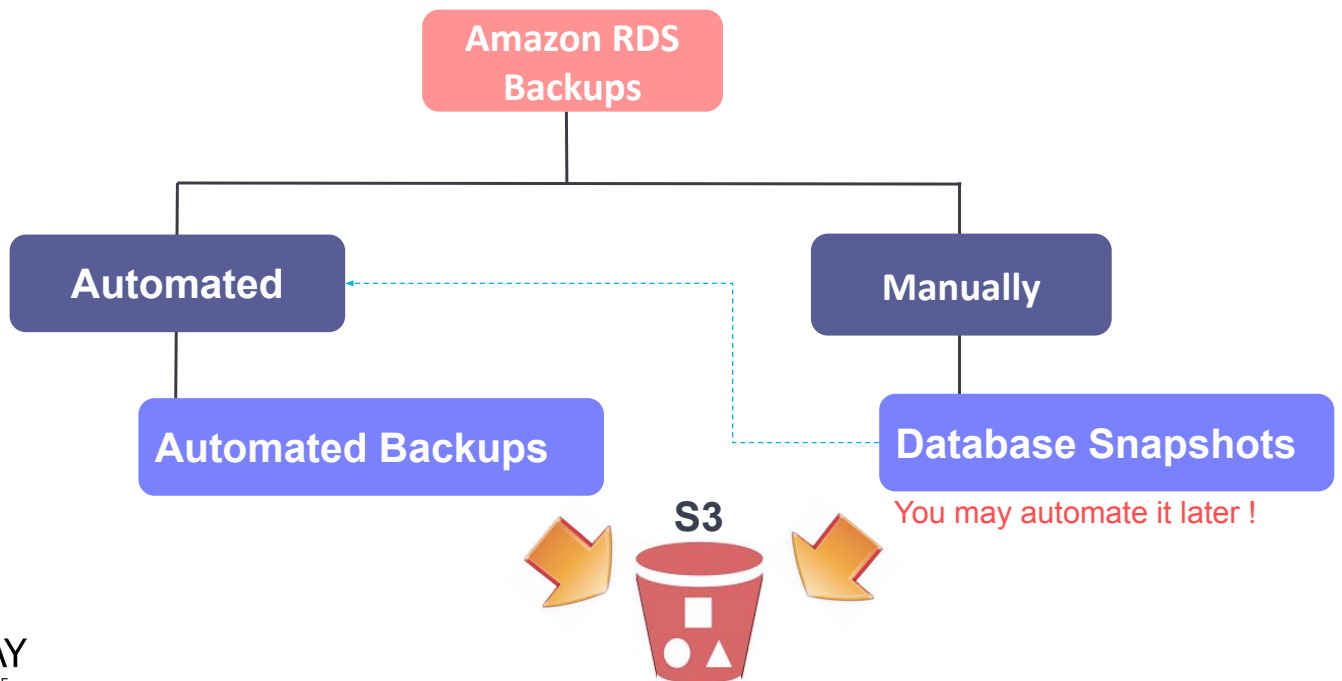
MySQL Workbench



MySQL Workbench = Graphical tool for working with MySQL databases.

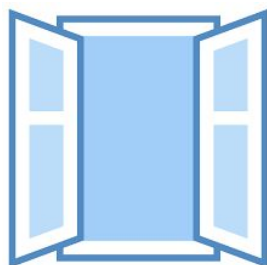
RDS

DB Instance Backups



RDS

DB Instance Automated Backups



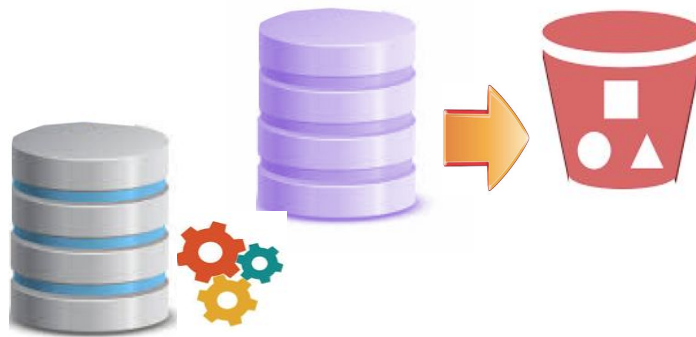
35 days



5 minutes

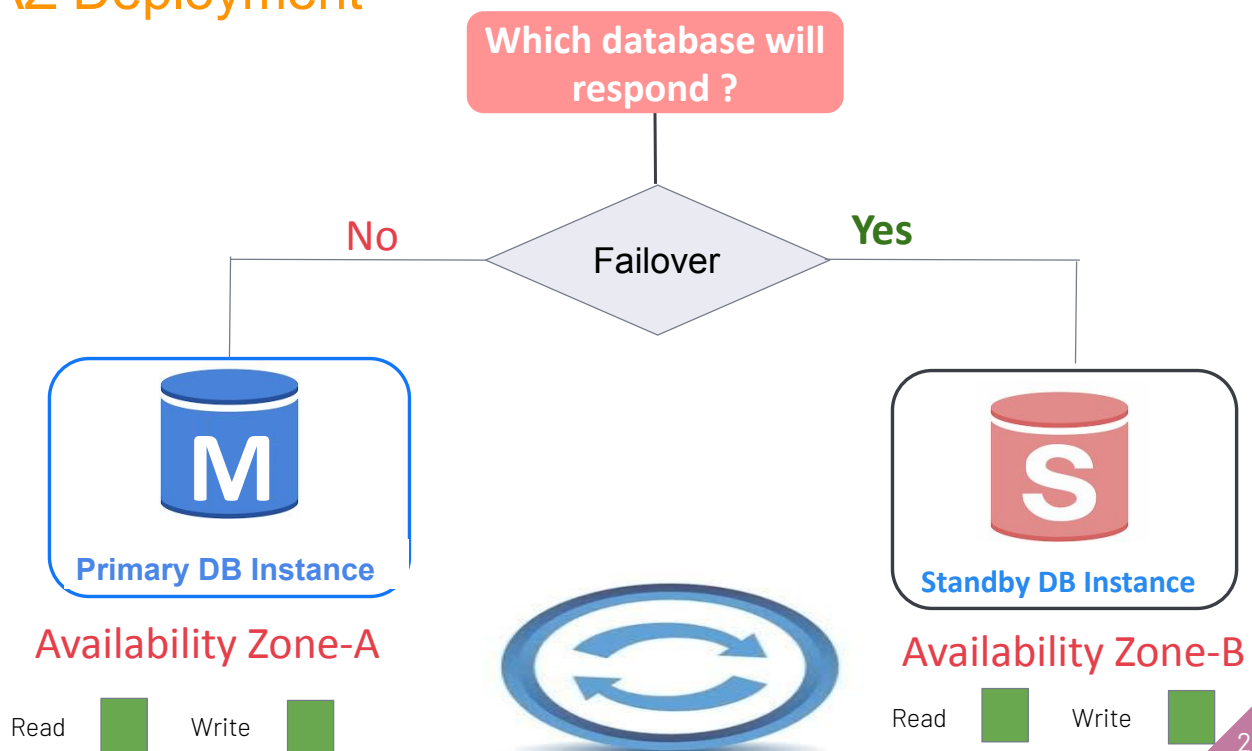
RDS

DB Instance Snapshot



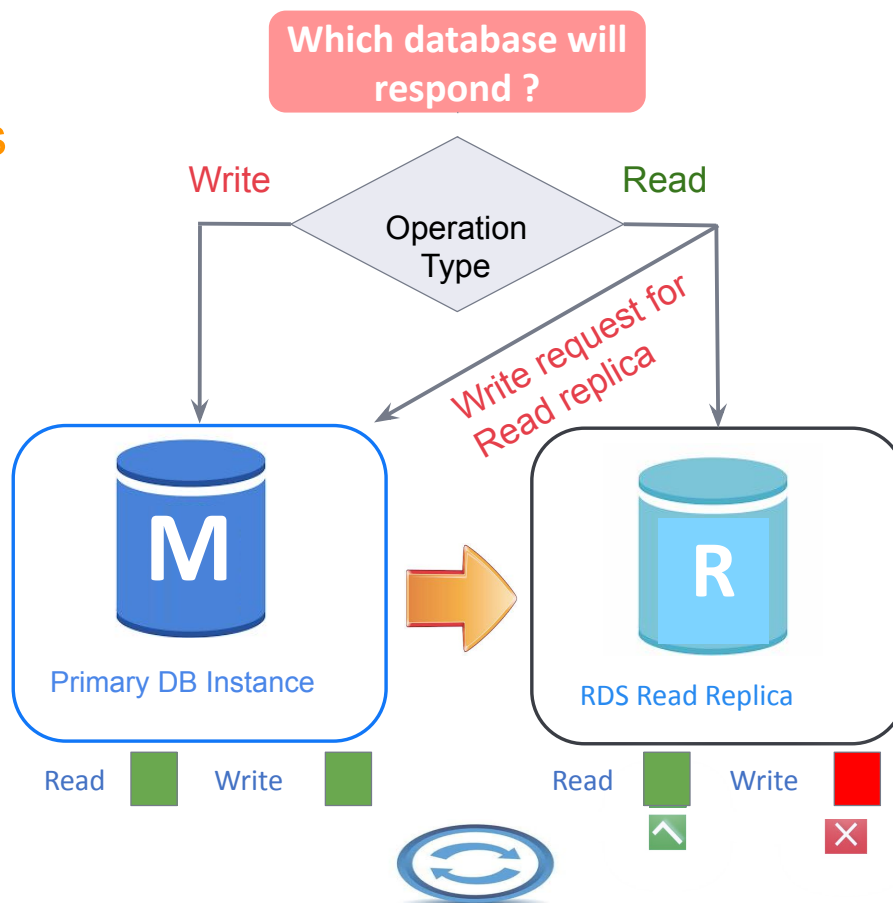
RDS

RDS Multi-AZ Deployment



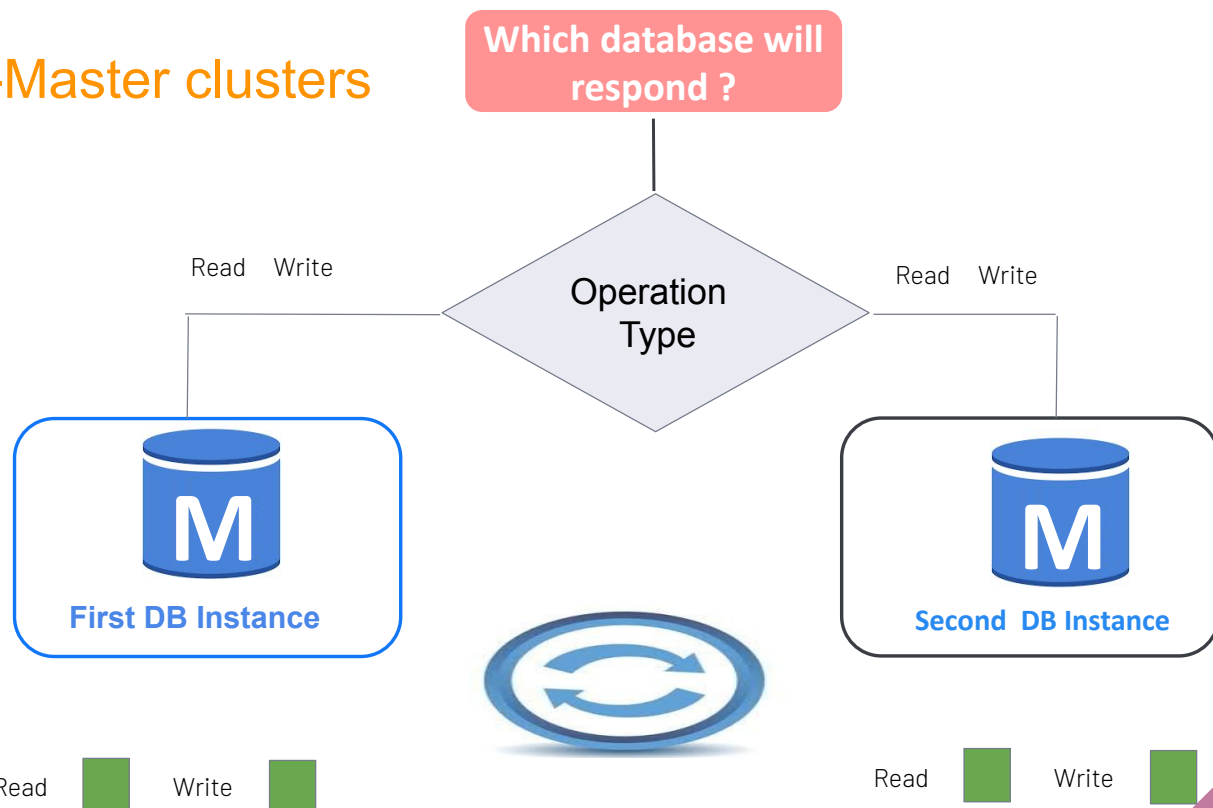
RDS

Read Replicas



RDS

Aurora Multi-Master clusters



Let's get our hands dirty!

- Creating a RDS Instance
- Connecting DB via MySQL Workbench



THANKS!

Any questions?

