
ondia

AWS Databases

AGENDA

- Introduction to Database
- Amazon RDS
- MySQL Workbench

Introduction to Database

Introduction to Database

What is Database?

Introduction to Database

Type of Database?

Relational/SQL

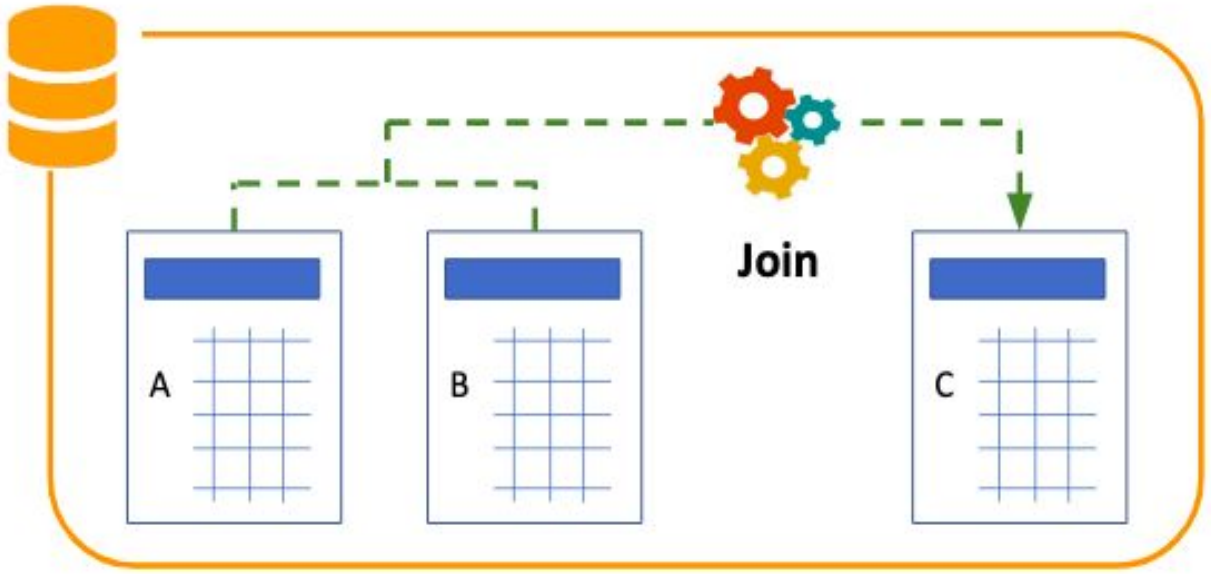
Non-Relational/NoSQL

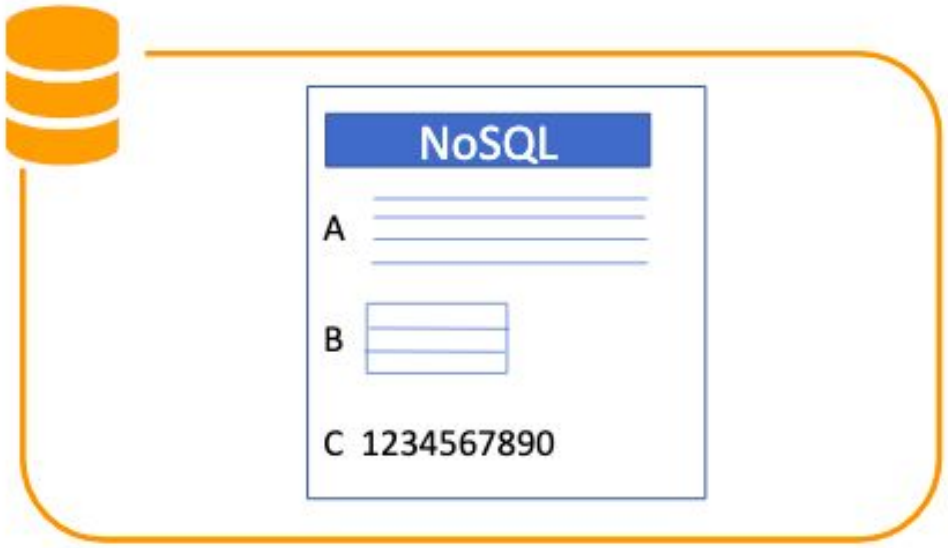
Introduction to Database

Type of Database?

Relational/SQL

Non-Relational/NoSQL



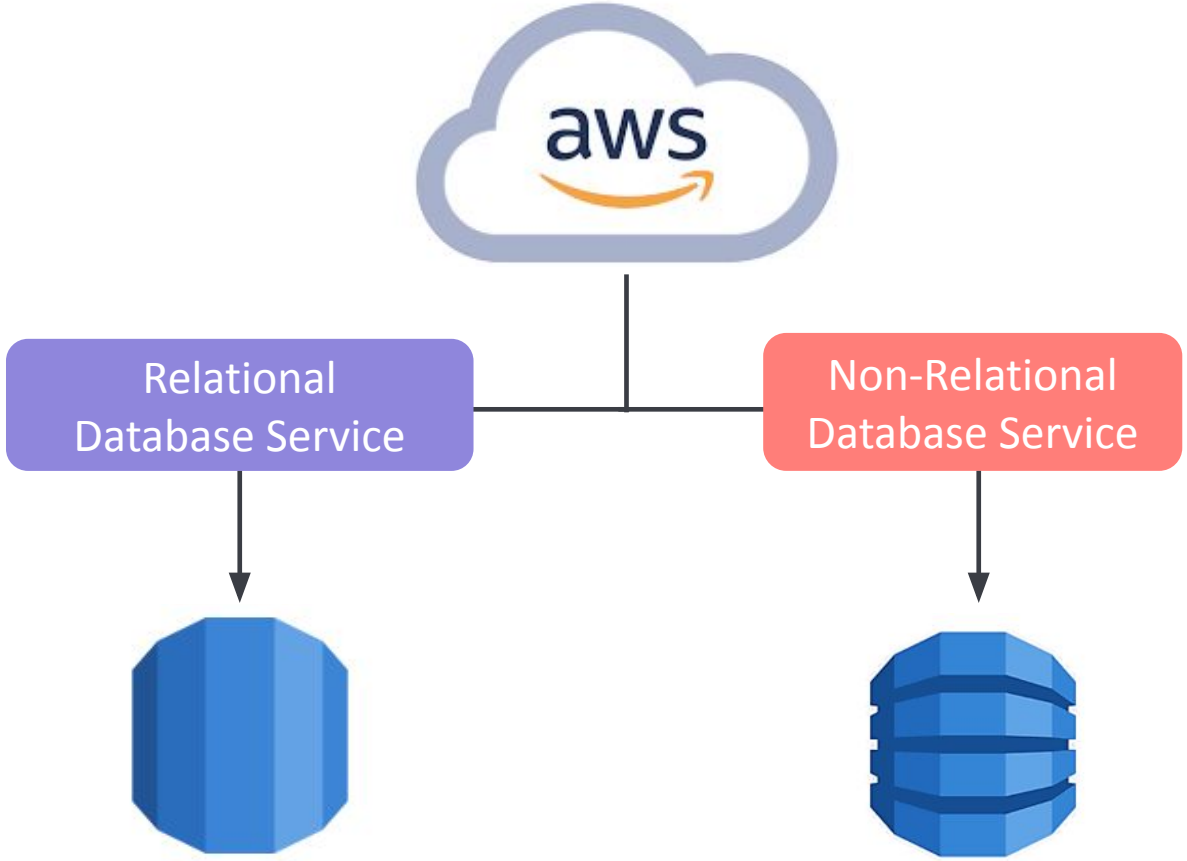


Introduction to Database

Type of Database?

Introduction to Database

AWS Databases



Amazon RDS

Amazon Dynamodb

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

Amazon RDS

RDS

What is RDS?

Amazon RDS

RDS
Basic Components

Amazon RDS

Database Engines

db.t2.micro

DB Instance

Storage Disk

EC2

AMI

Instance Type

t2.micro

Storage Disk/
Root Volume

RDS

Database Engines

Amazon Aurora

ORACLE

MariaDB

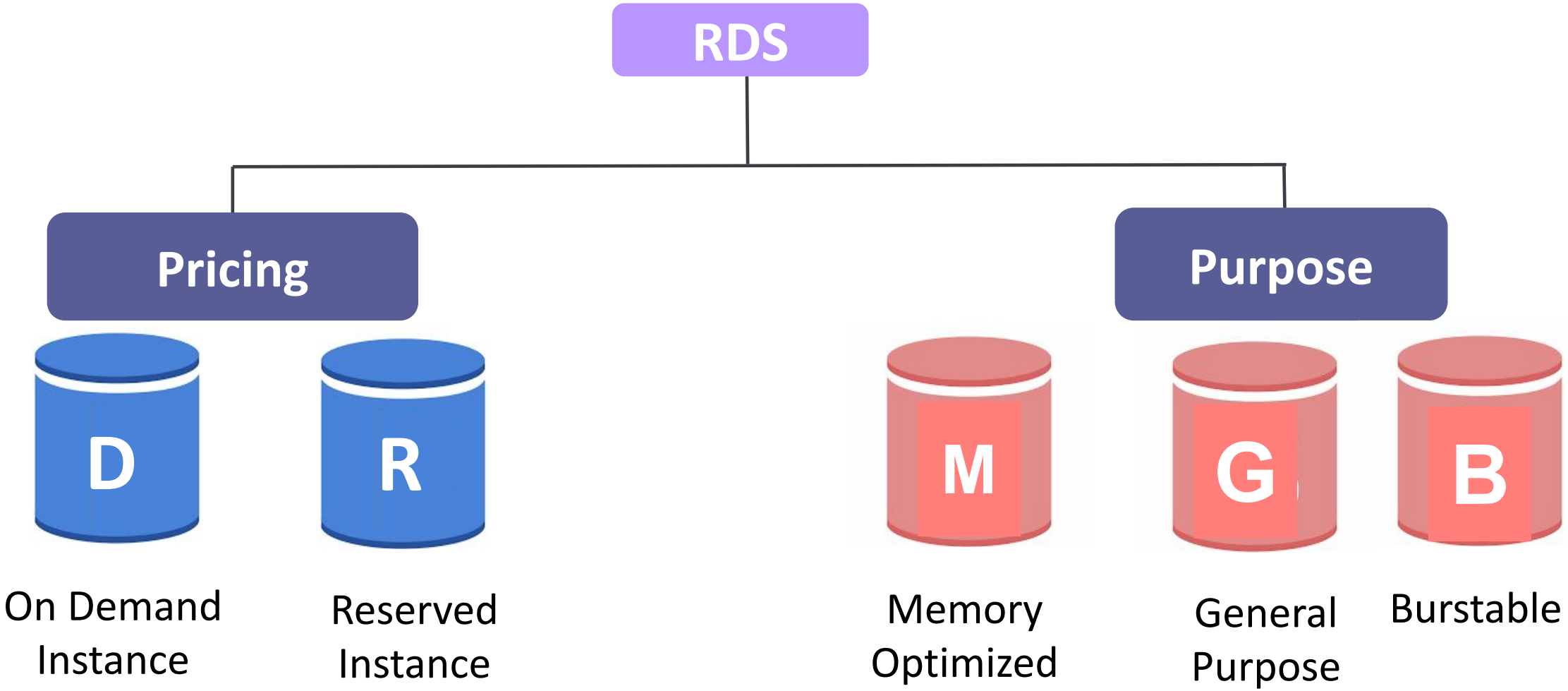
PostgreSQL

Microsoft SQL Server

MySQL

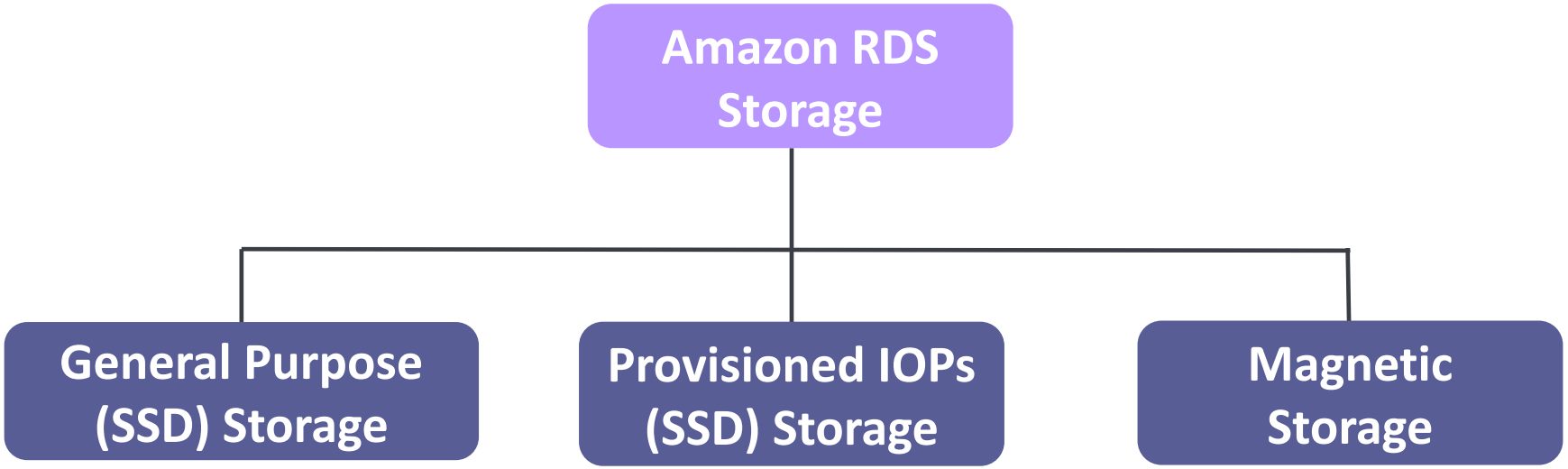
RDS

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

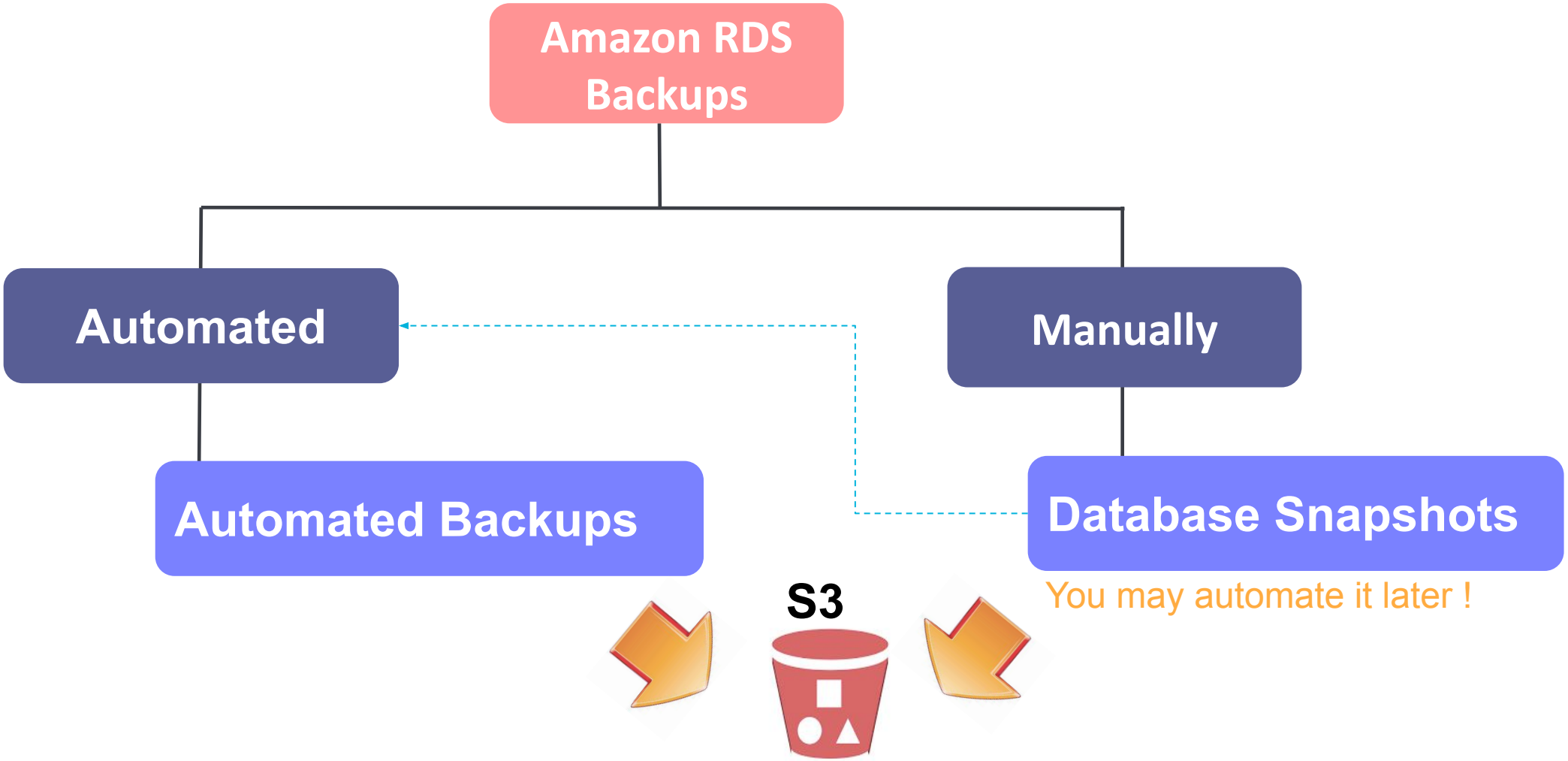
RDS

MySQL Workbench

MySQL Workbench = Graphical tool for working with MySQL databases.

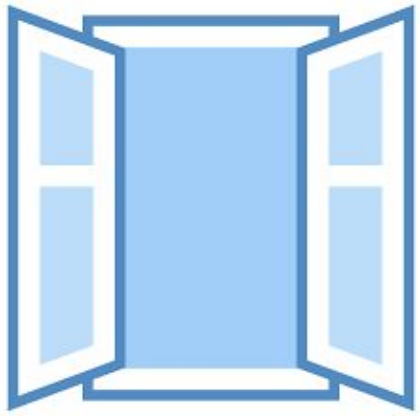
RDS

DB Instance Backups



RDS

DB Instance Automated Backups



35 days

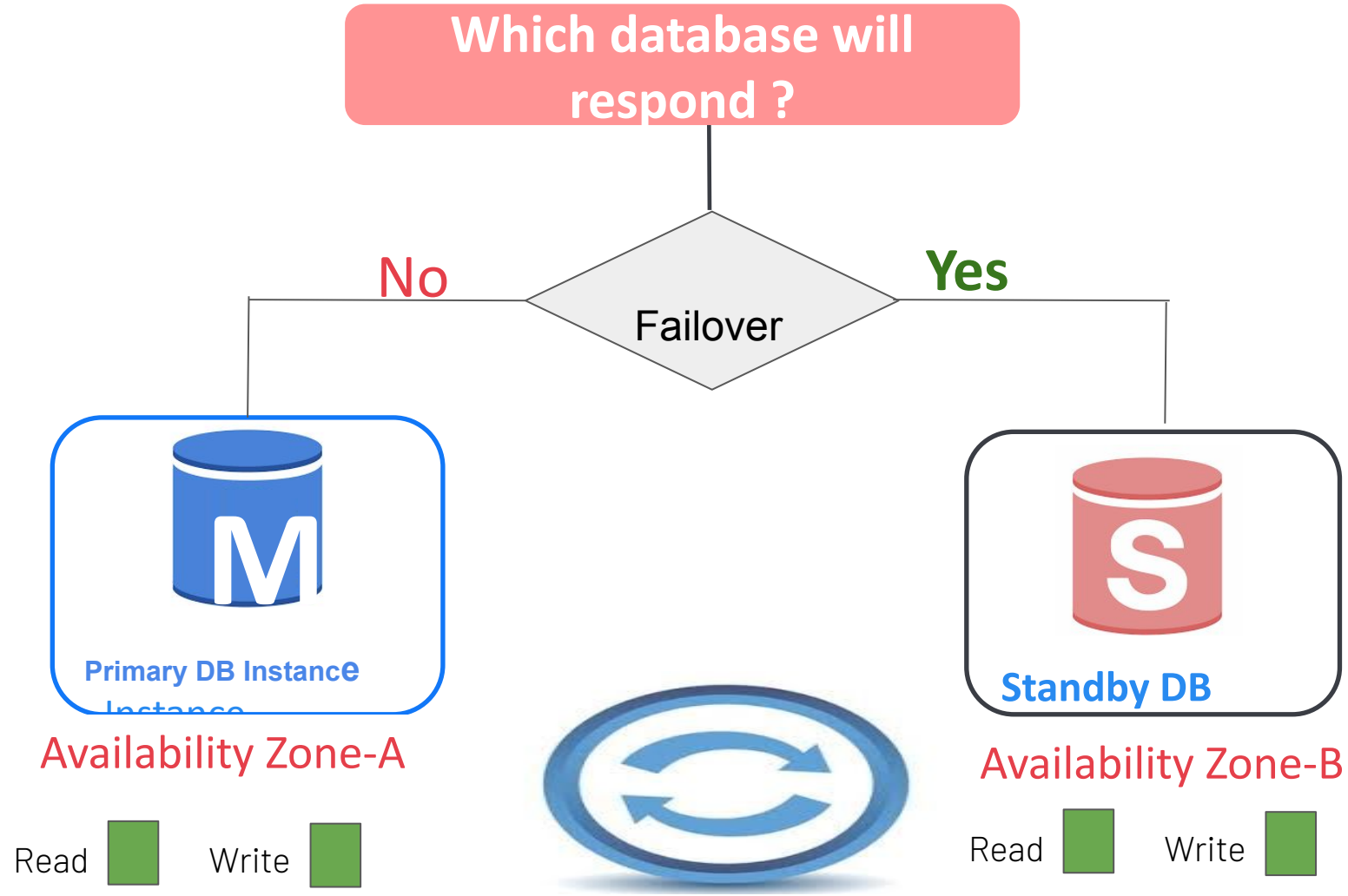
5 minutes

RDS

DB Instance Snapshot

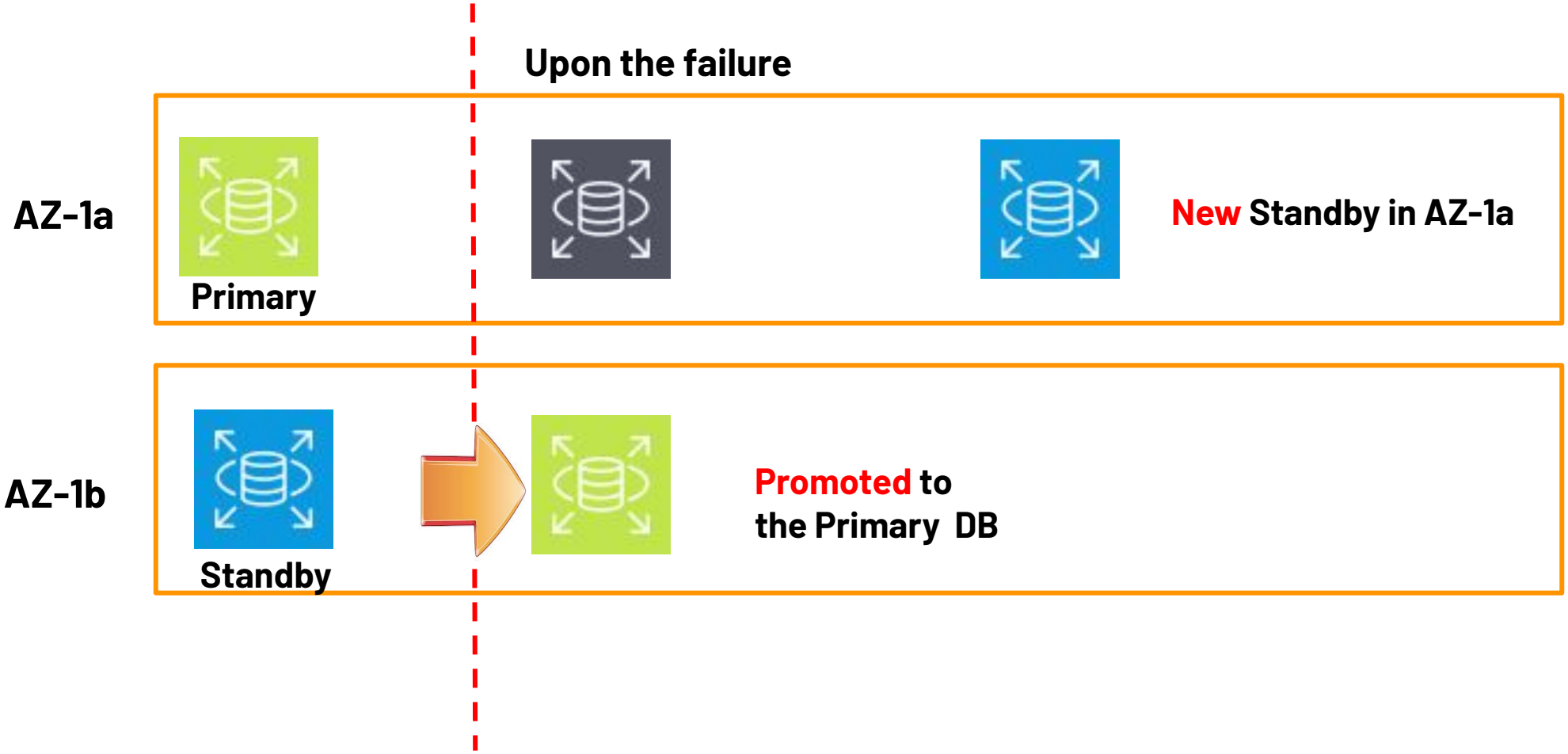
RDS

RDS Multi-AZ Deployment

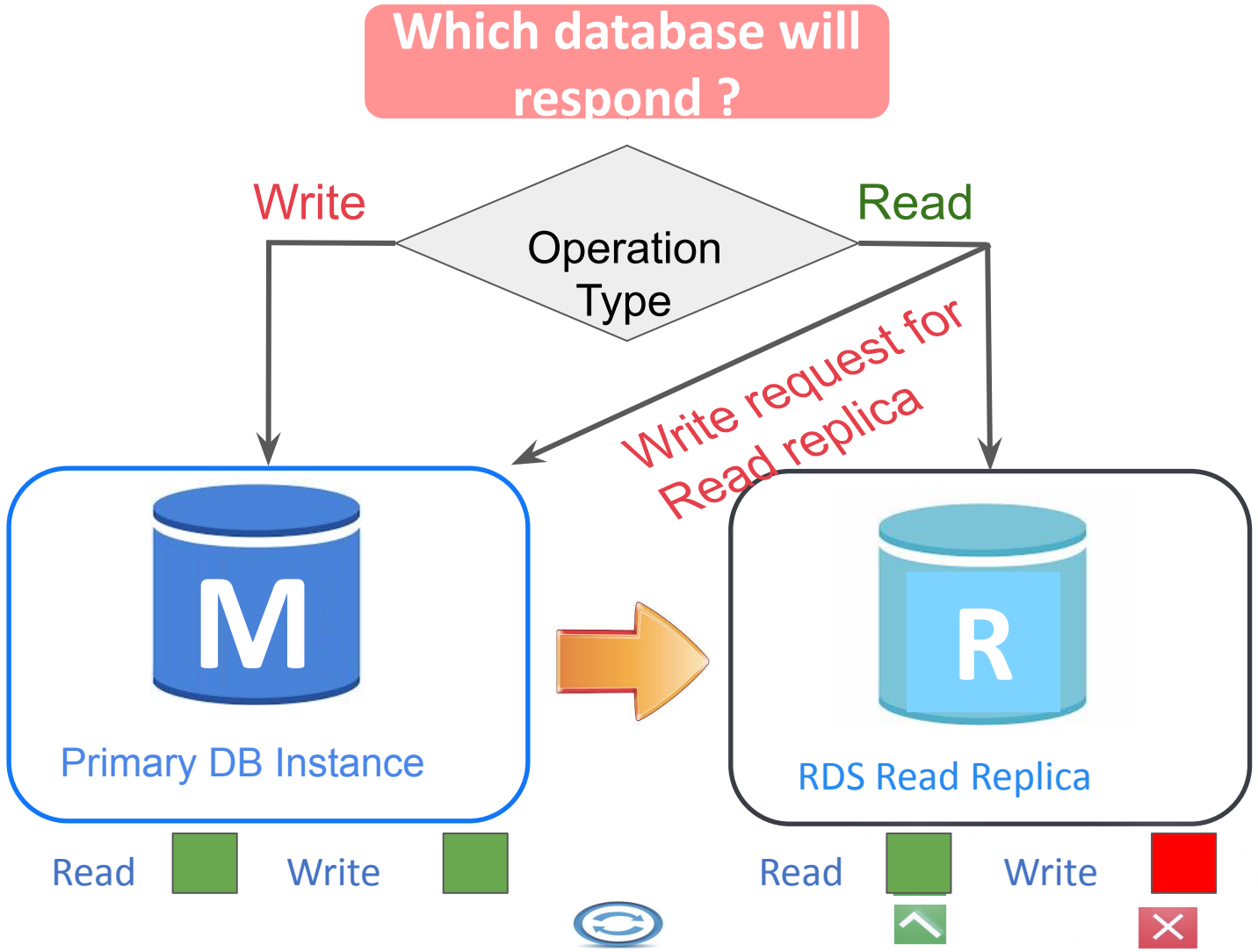


RDS

RDS Multi-AZ Deployment Life Cycle

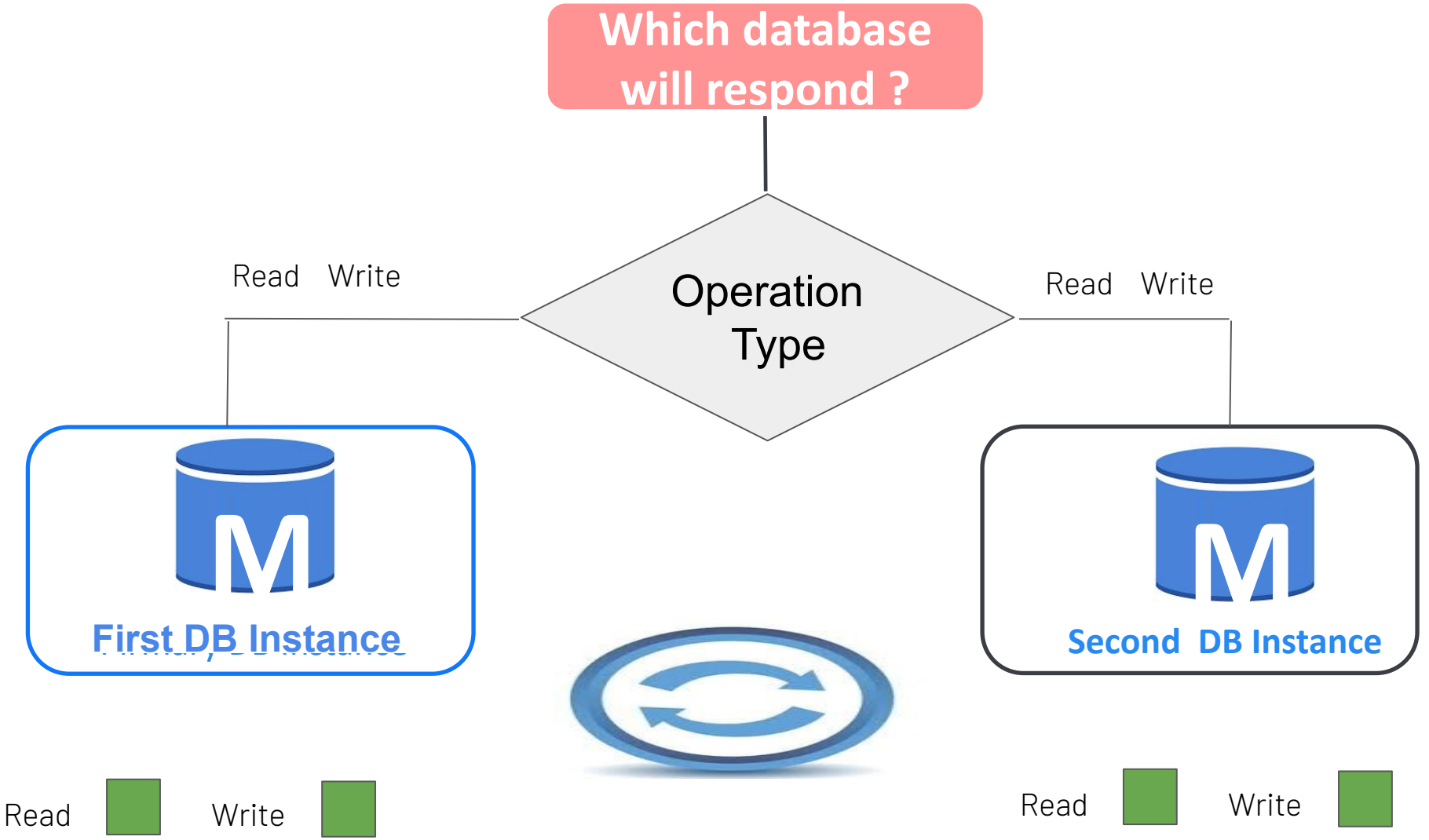


RDS
Read Replicas



RDS

Aurora Multi-Master clusters



Let's get our hands dirty!

- Creating a RDS Instance
- Connecting DB via MySQL Workbench

THANKS!

Any questions?