



AWS Databases





Today's Takeaways

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



1

Introduction to Database

Introduction to Database

What is Database?





Introduction to Database

Type of Database?

Relational/SQL

Non-Relational/NoSQL

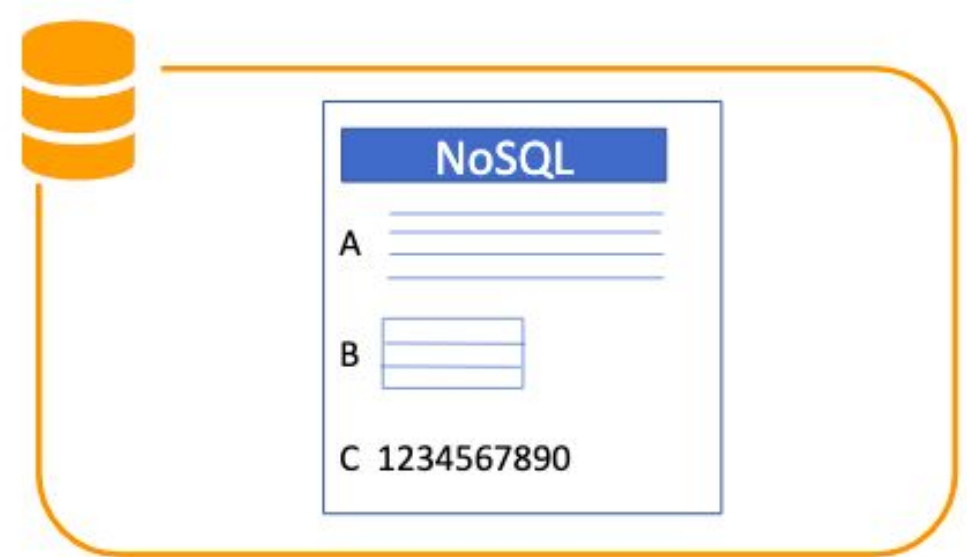
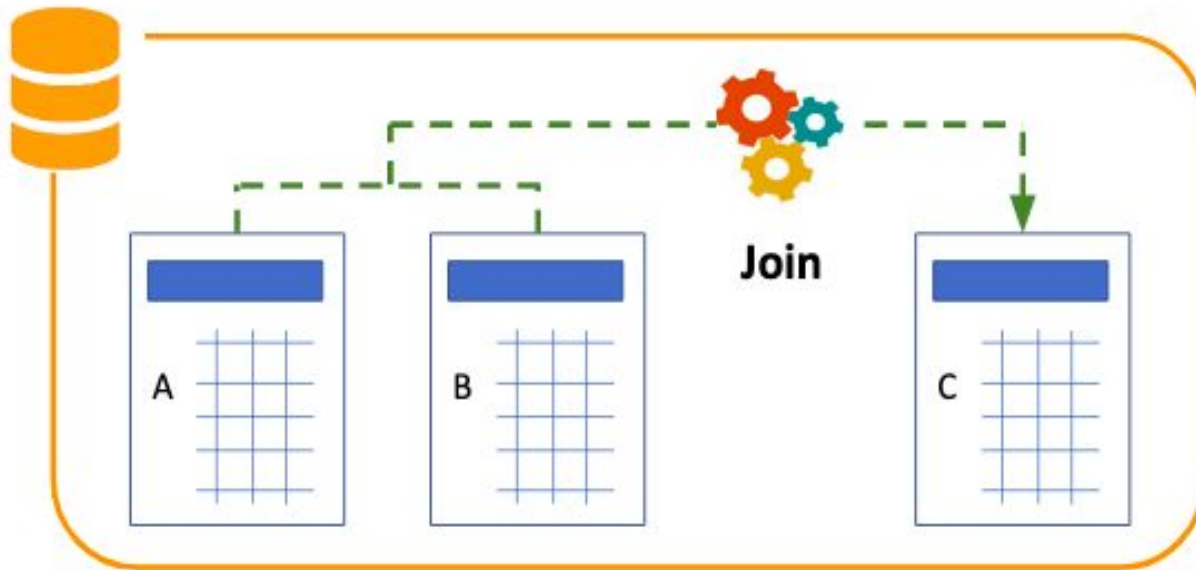


Introduction to Database

Type of Database?

Relational/SQL

Non-Relational/NoSQL



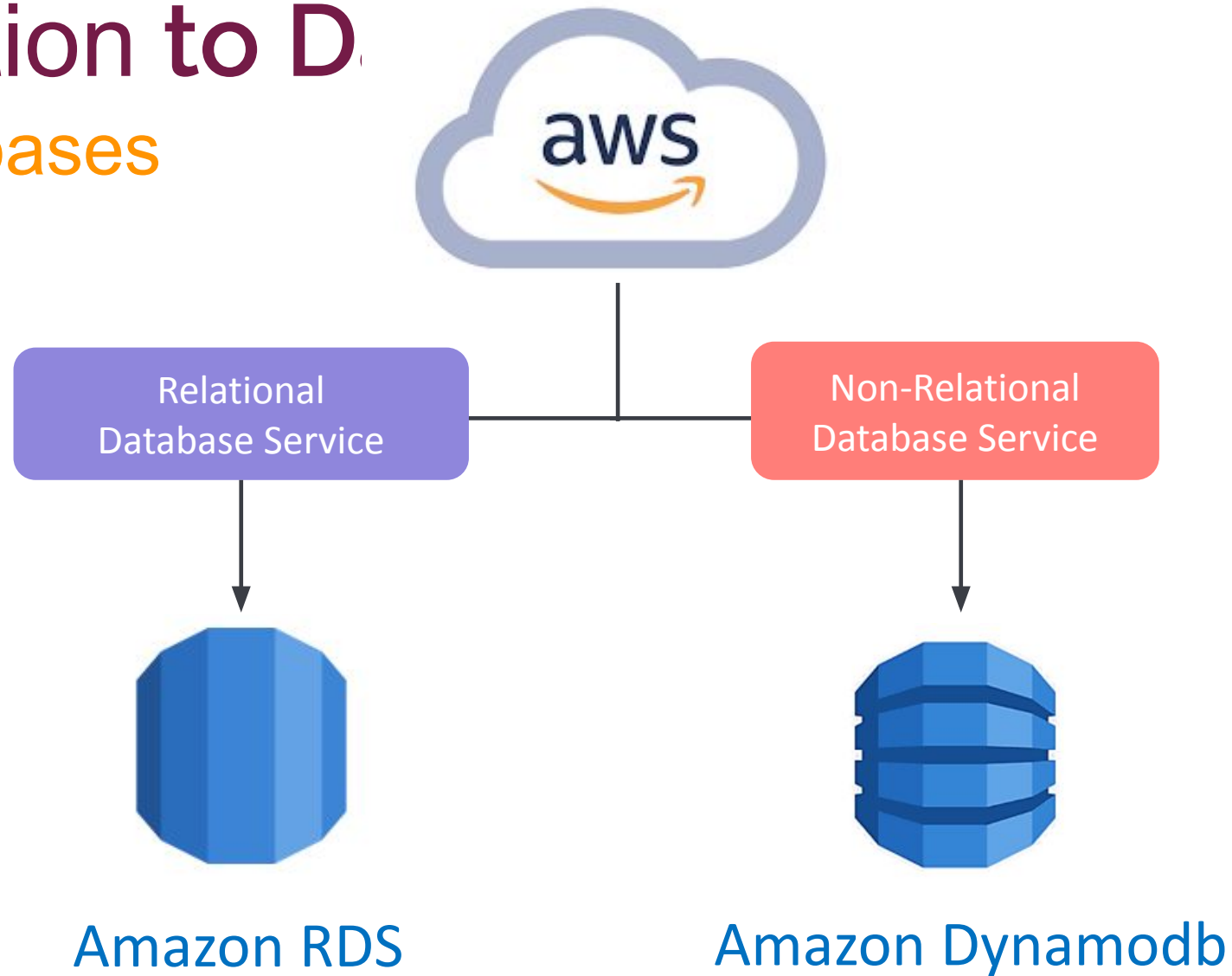
Introduction to Database

Type of Database?



Introduction to D.

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

PostgreSQL

MariaDB



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

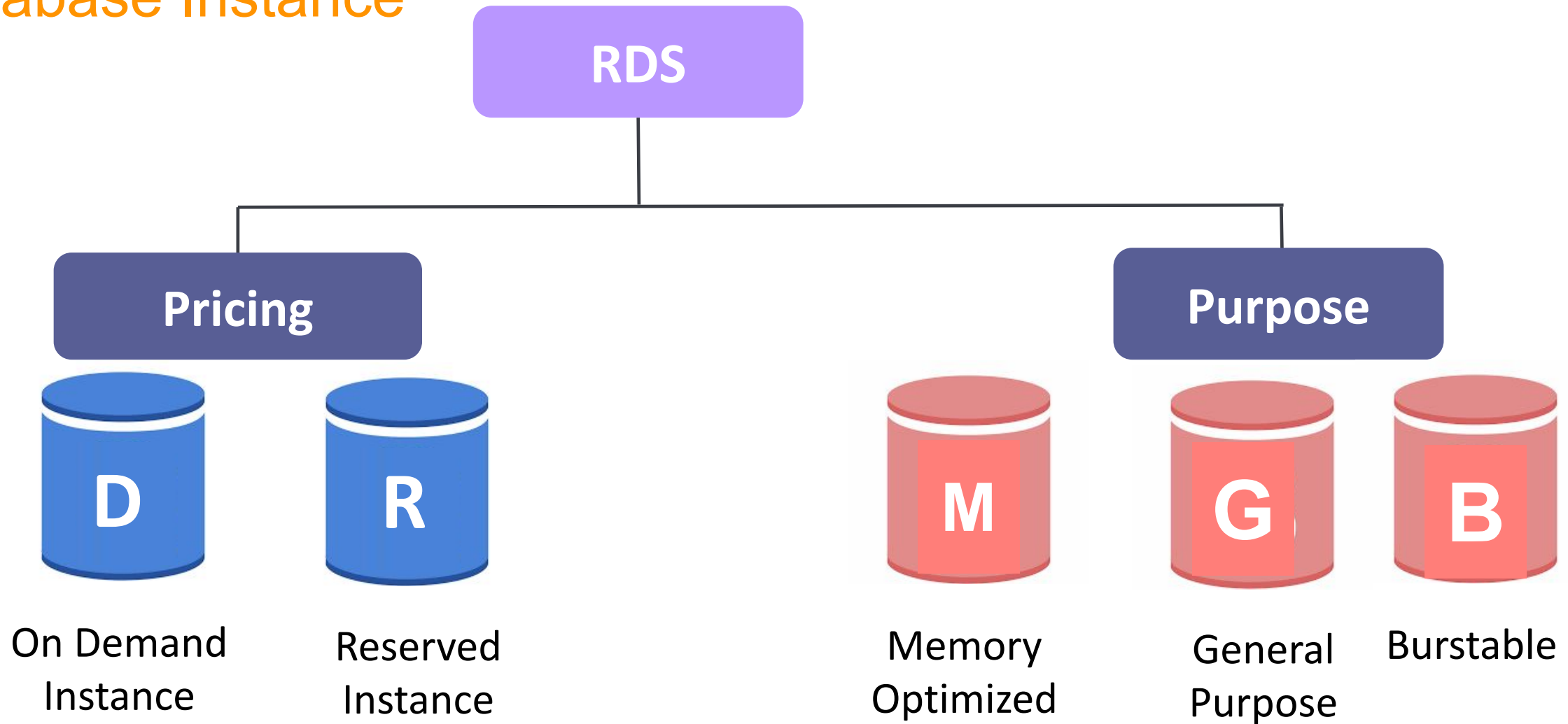


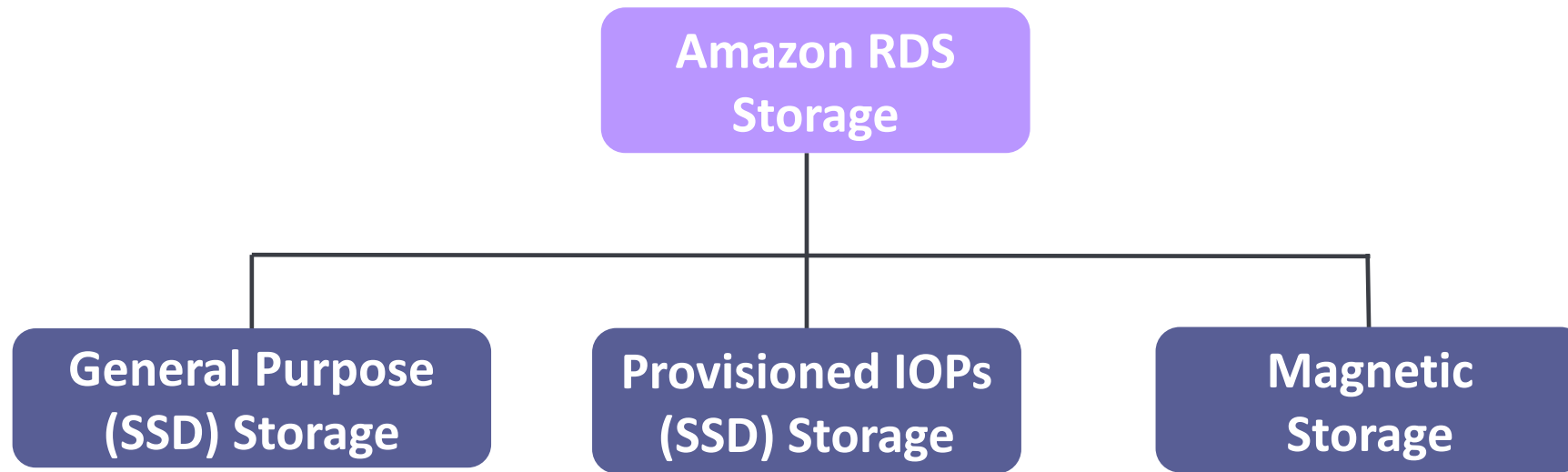
MySQL



RDS

Database Instance





Cost-effective

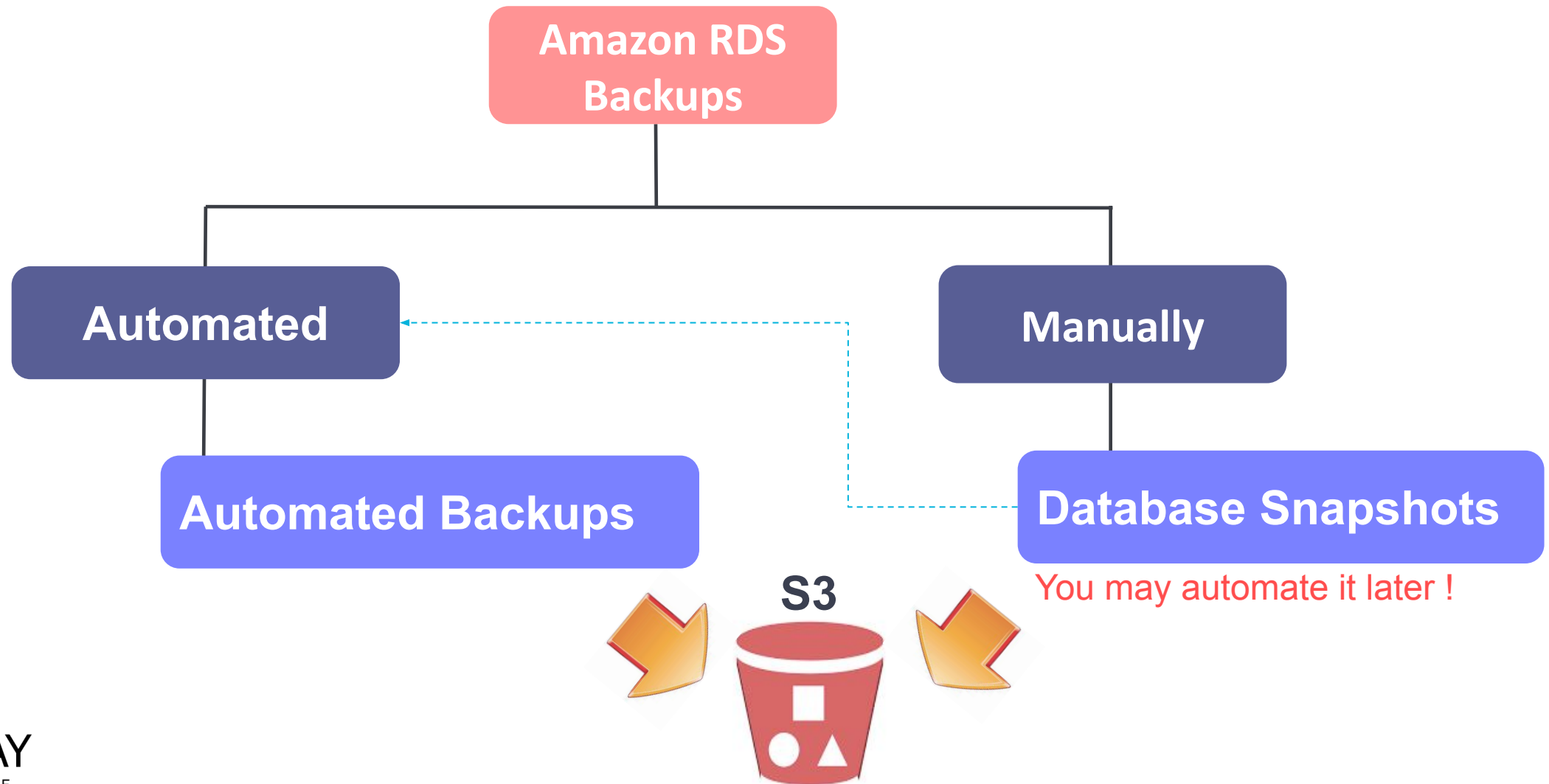
Fast and consistent I/O

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**

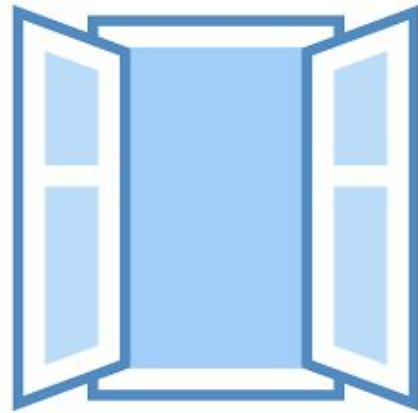


MySQL Workbench = Graphical tool for working with MySQL databases.





DB Instance Automated Backups



35 days

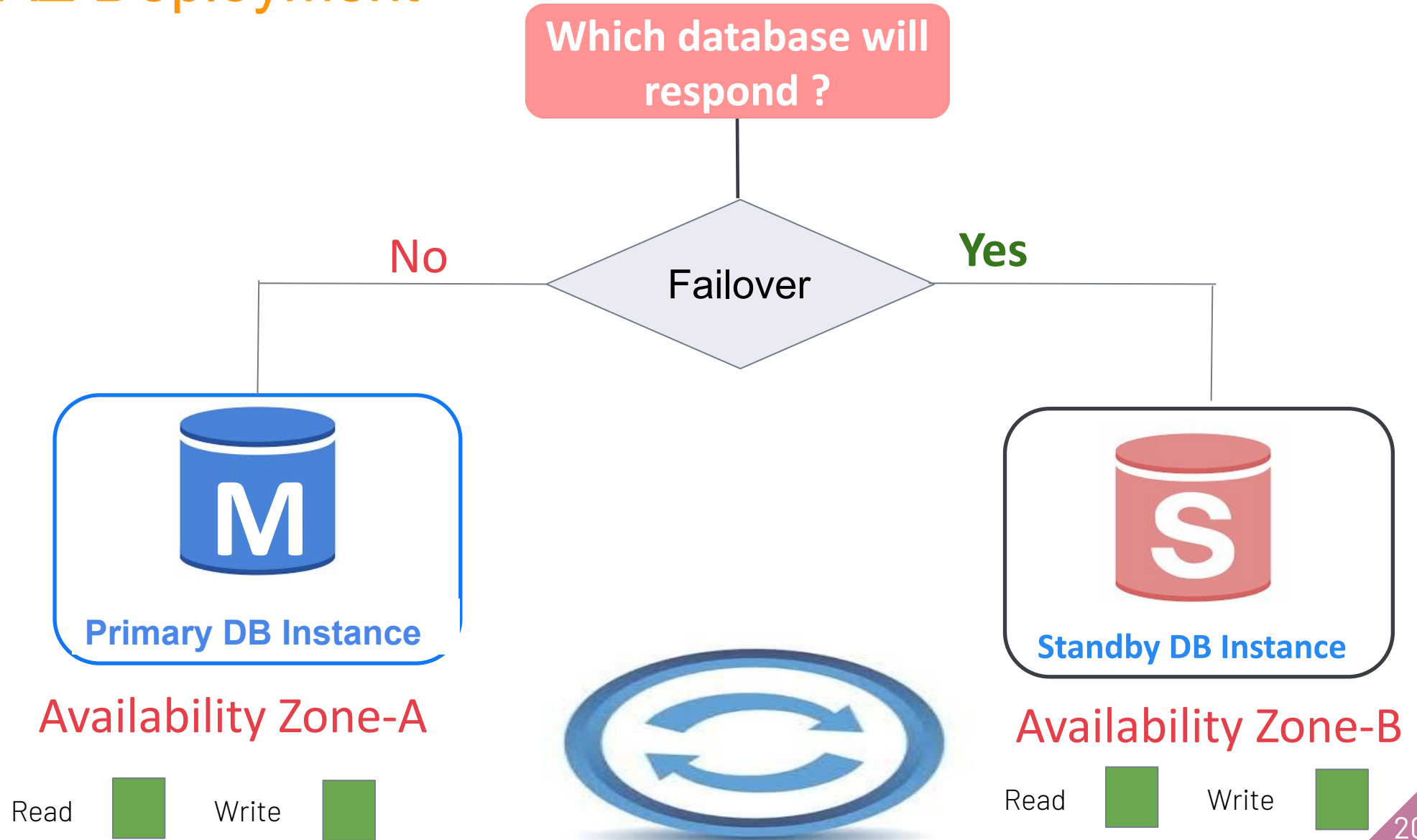


5 minutes

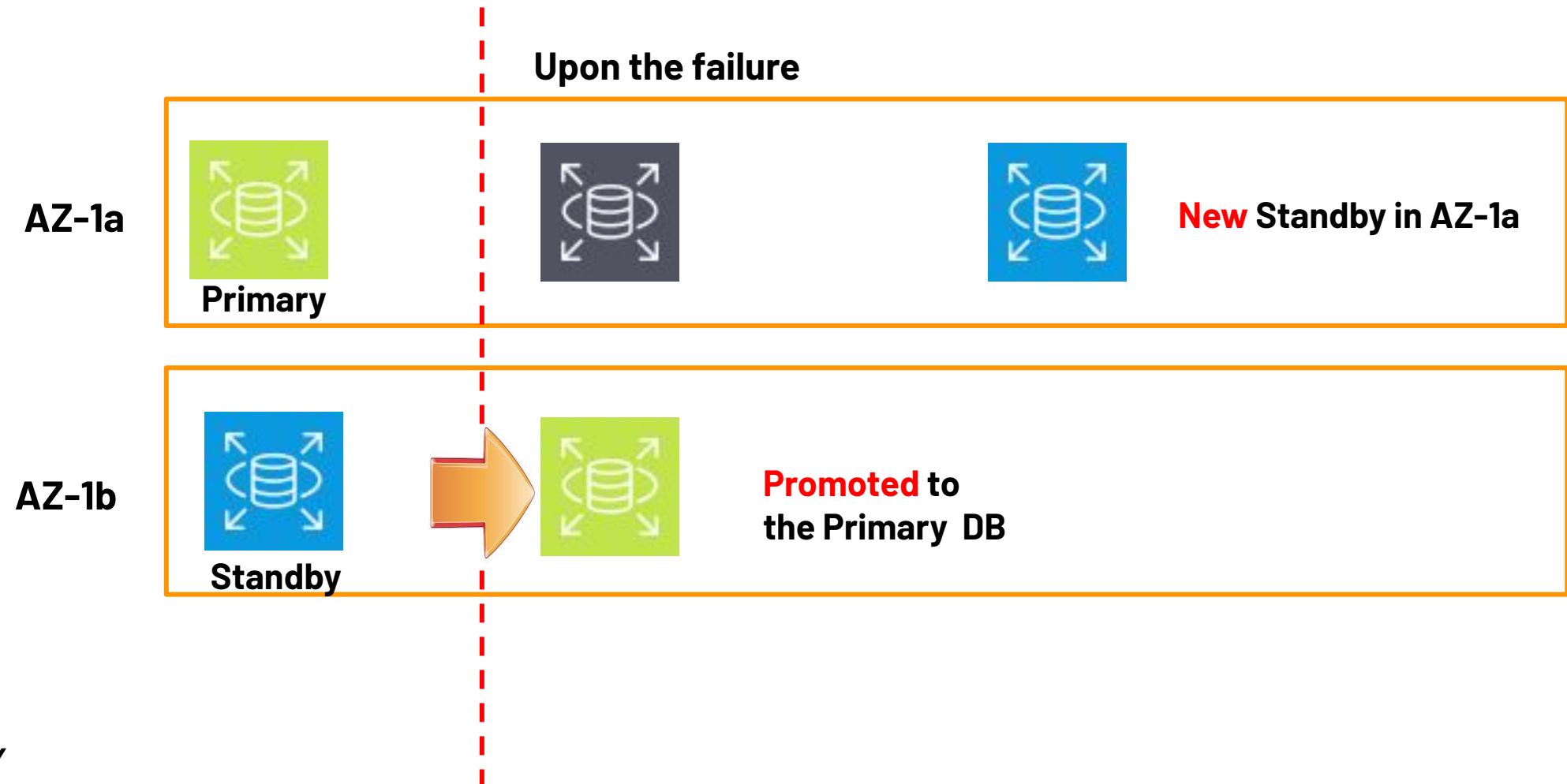


DB Instance Snapshot

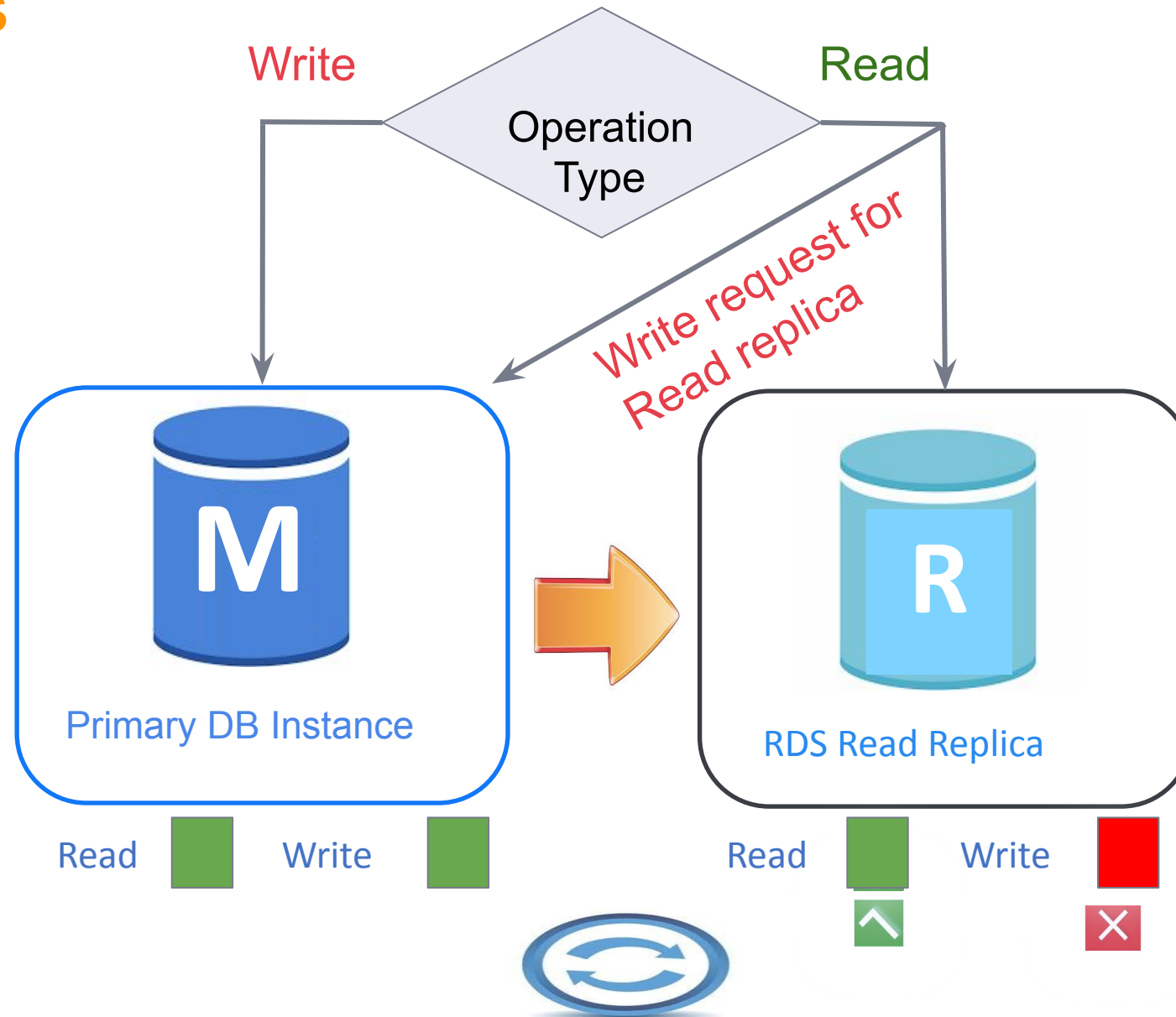




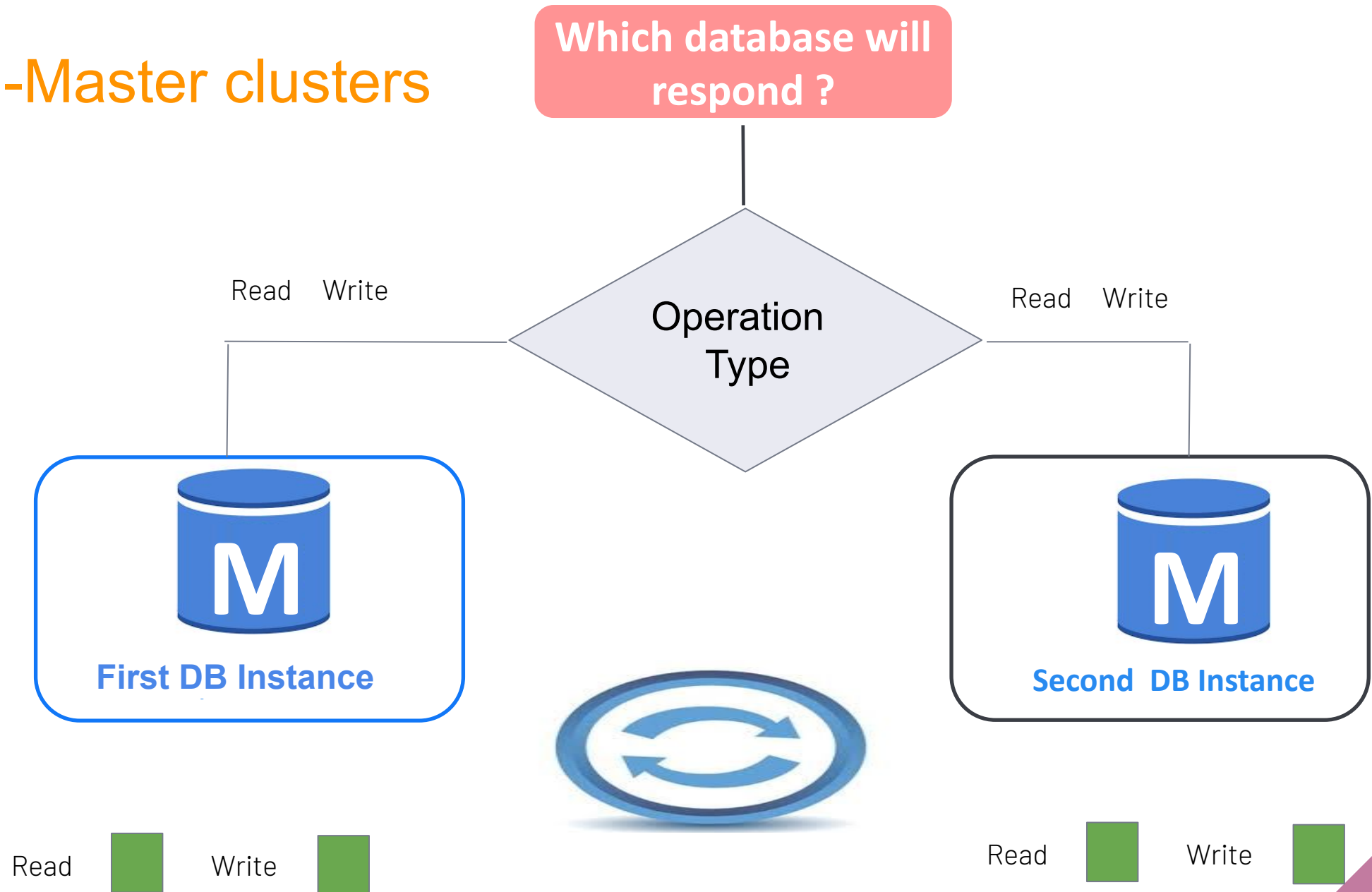
RDS Multi-AZ Deployment Life Cycle



Which database will respond ?



Aurora Multi-Master clusters



Let's get our hands dirty!

- Creating a RDS Instance
- Connecting DB via MySQL Workbench



THANKS!

Any questions?

