



For Today's Class ... Install **MySQL Workbench**



1. Go to <https://dev.mysql.com/downloads/workbench/>
 - a. Windows Users
 - i. Go forth and be happy w/ v **8.0.29**
 - b. MAC users
 - i. **IF** you have macOS Big Sur - install v **8.0.29**
 - ii. **ELSE** install v **8.0.20** from:
<https://downloads.mysql.com/archives/workbench/>

Getting Help / Keeping Up



Learn
How To
Learn

- **Know your Operating System:**
 - Navigating the file system
 - Where is your home directory (explorer & command line)
 - Know basic commands: cd, ls, dir, mkdir
 - Have the tools to open .txt, .csv, .dat, .md files

⇒ If this is an issue, spend some time learning this - lots of YouTube videos
- **Understand GitHub**
 - Where is your repository
 - How to clone the clarusway repo
 - How to sync your repo

⇒ If this is an issue, reach out to a mentor and figure it out quickly
- **Getting Help Outside Class**
 - Post on #questions-answer channel
 - Mentor will respond
 - Review class recordings



AWS Databases



Today's Takeaways

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



1

Introduction to Database

CLARUSWAY
WAY TO REINVENT YOURSELF



Introduction to Database

What is Database?



CLARUSWAY
WAY TO REINVENT YOURSELF



Introduction to Database

Type of Database?

Relational/SQL

Non-Relational/NoSQL

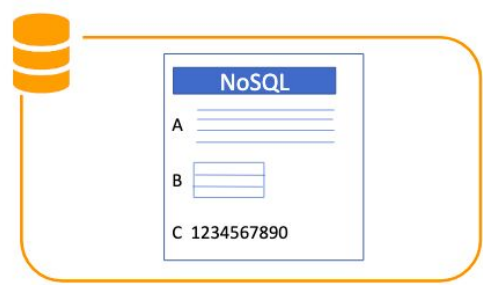
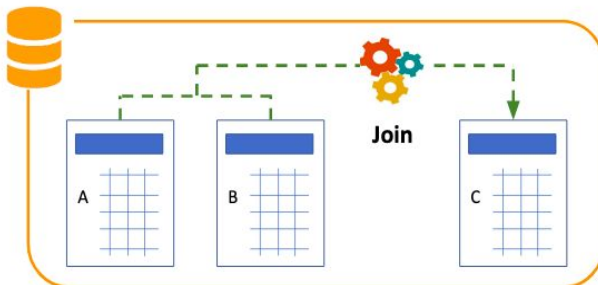


Introduction to Database

Type of Database?

Relational/SQL

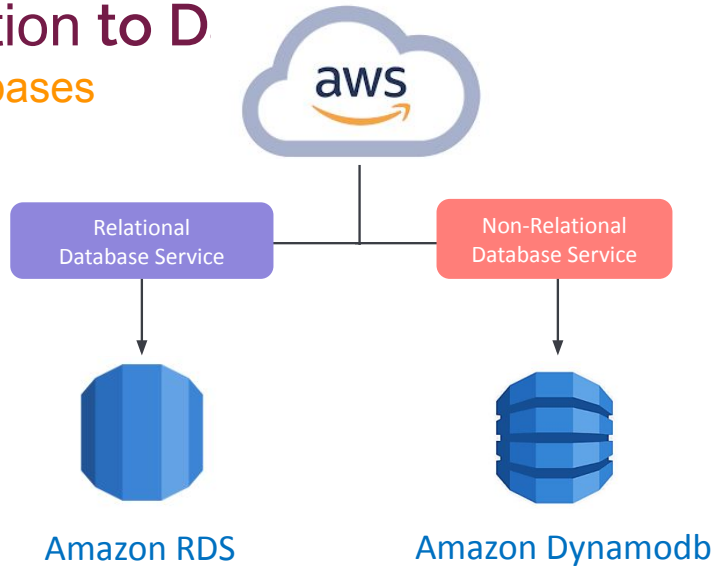
Non-Relational/NoSQL





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?

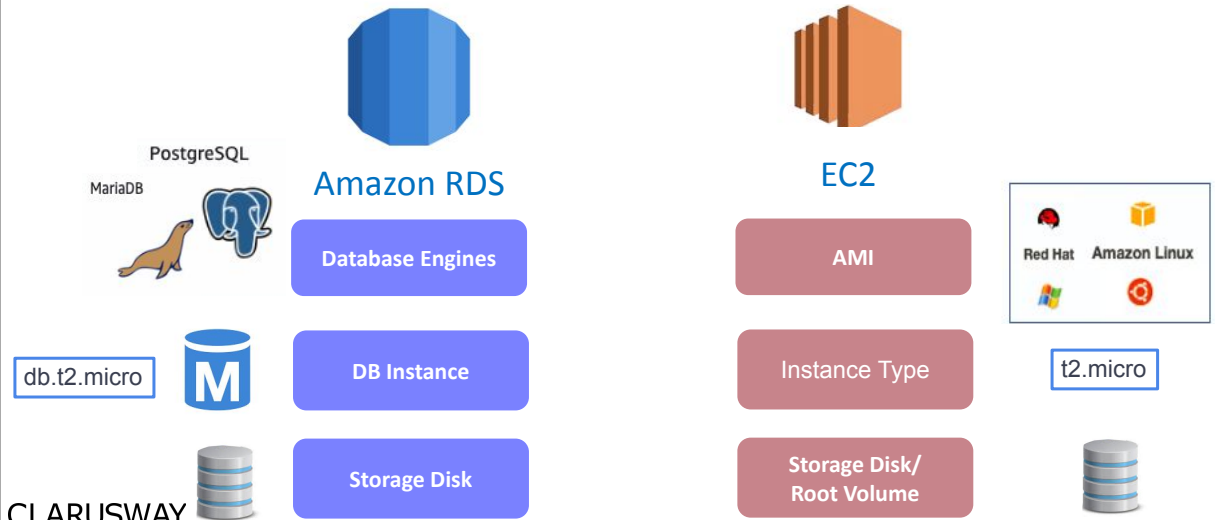


Amazon RDS



RDS

Basic Components



13



RDS

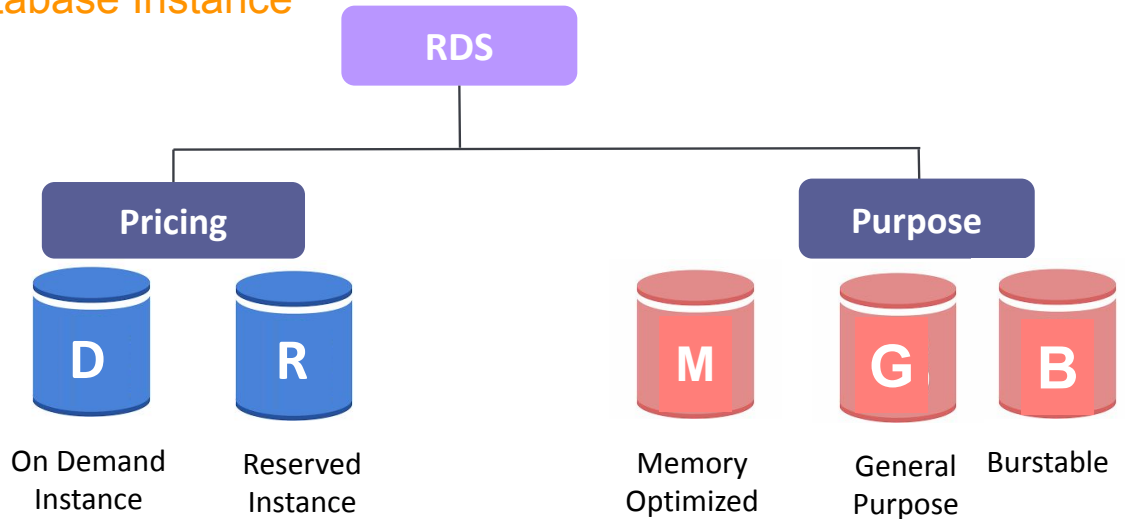
Database Engines





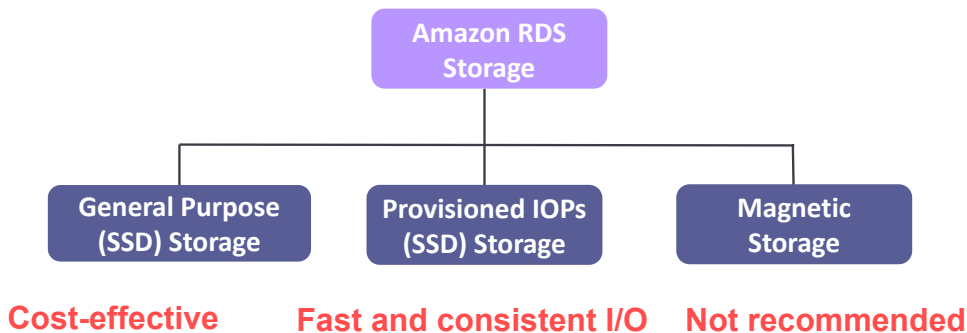
RDS

Database Instance



RDS

Instance Storage



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

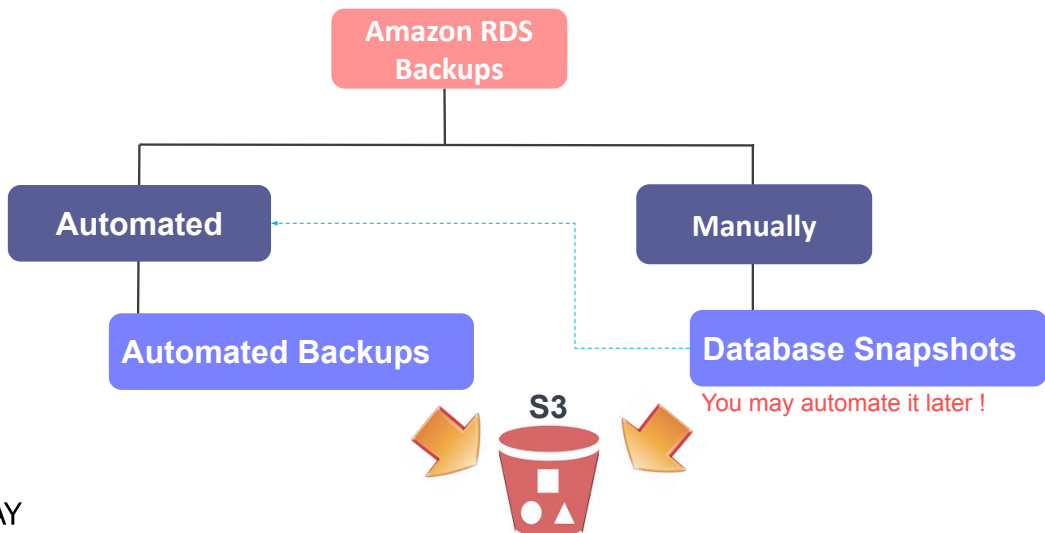


MySQL Workbench = Graphical tool for working with MySQL databases.



RDS

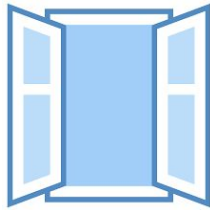
DB Instance Backups





RDS

DB Instance Automated Backups



35 days



5 minutes



RDS

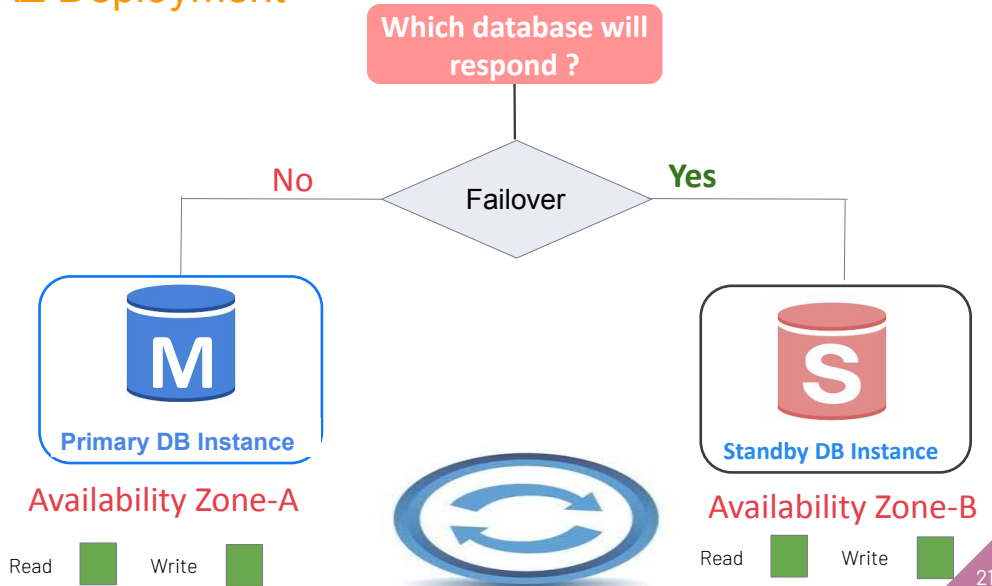
DB Instance Snapshot





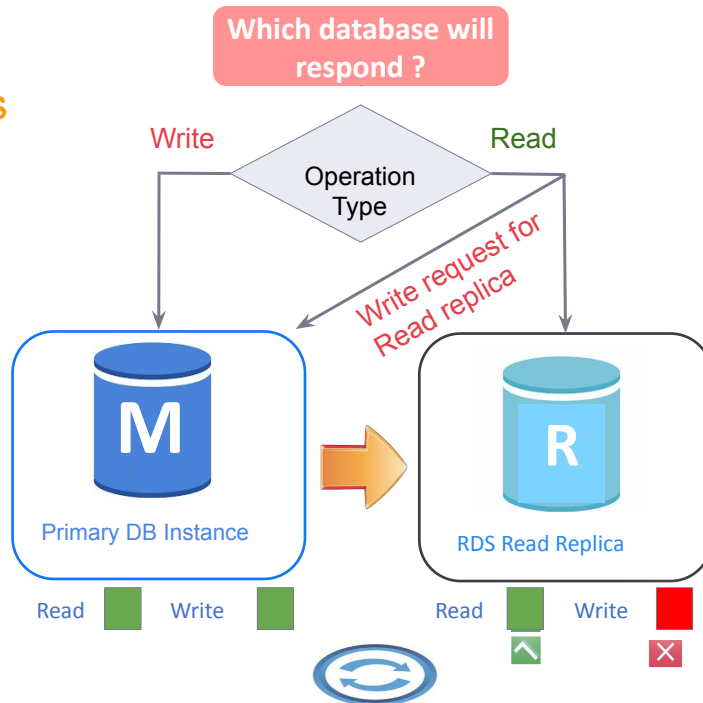
RDS

RDS Multi-AZ Deployment



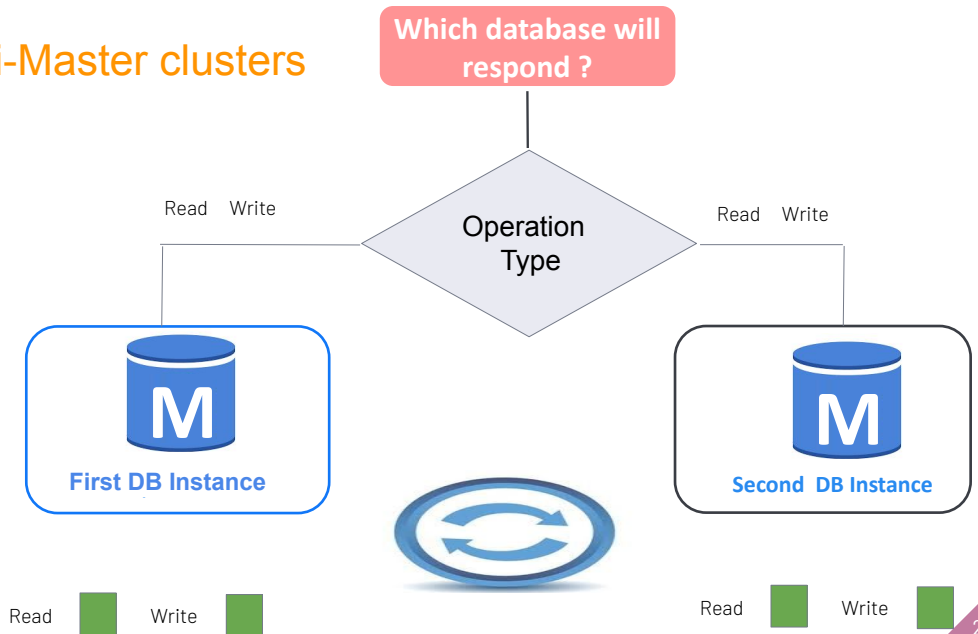
RDS

Read Replicas



RDS

Aurora Multi-Master clusters



Kahoot!



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CLARUSWAY
WAY TO REINVENT YOURSELF



Break
return @ 12pm



CLARUSWAY
WAY TO REINVENT YOURSELF



Remember to
Delete your
RDS Instance



THANKS!

Any questions?

