DATABASE

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AMAZON RELATIONAL DATABASE SERVICE

- This service sets up and operates a relational database in the cloud

- With RDS users can focus on the data they put into the database

- RDS is a fully managed database

- RDS charges when you use the service/ when the service is running

Amazon RDS

AMAZON RDS DB INSTANCES

Amazon RDS

DB Instance Class
- CPU
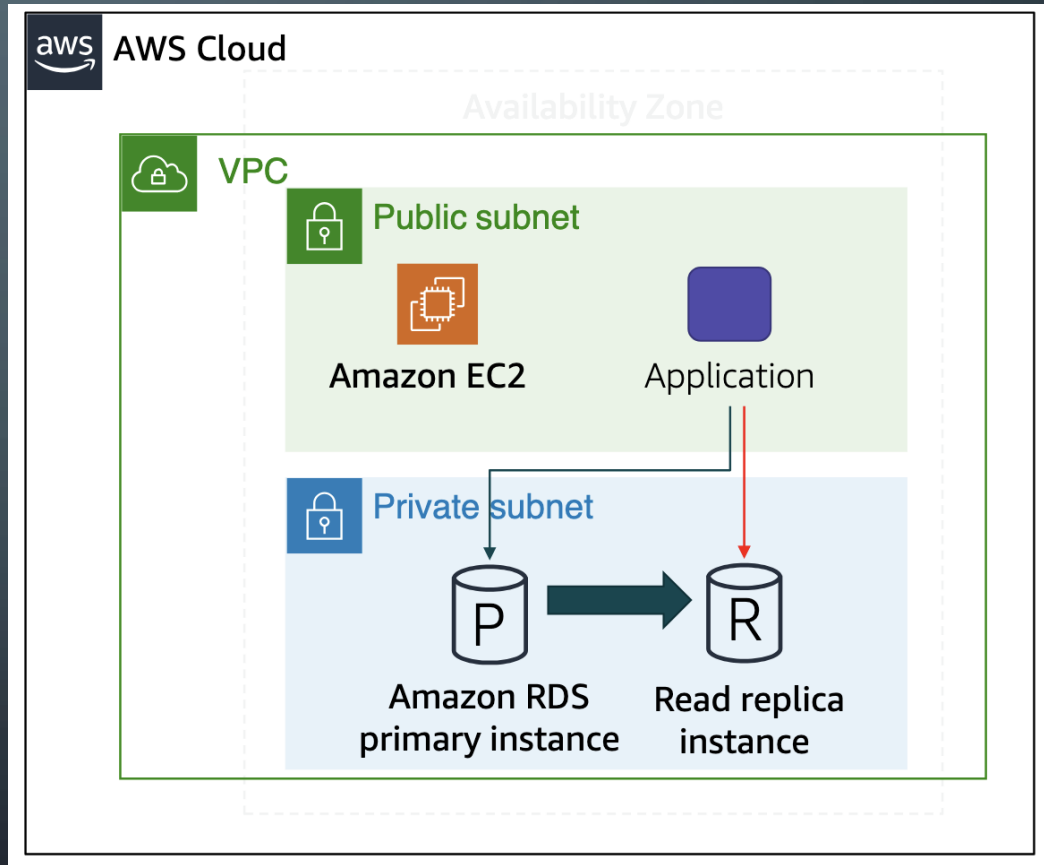- Memory
- Network performance

Amazon RDS DB main instance

DB Instance Storage
- Magnetic
- General Purpose (solid state drive, or SSD)
- Provisioned IOPS

- A database instance is an isolated database environment that can contain multiple databases

- The resources in a DB instance is determined on its class and storage

AMAZON RDS READ REPLICAS

- Updates that are made from the source database are automatically replicated to the read replica instance

- Read replicas can also be promoted to become the source database

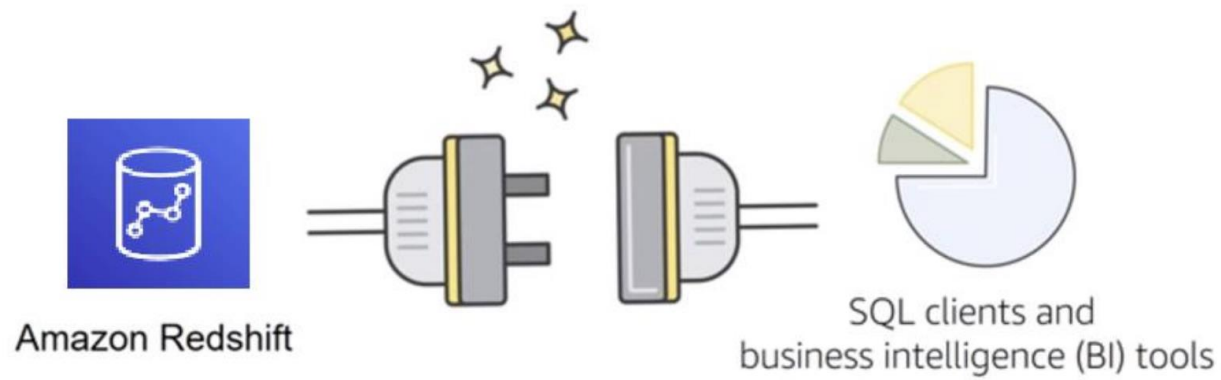- Read replicas can be created in a separate region that the source database

AMAZON DYNAMODB

- NoSQL database
- Low latency queries
- Virtually unlimited storage
- Scalable throughput
- Tables: collection of data
- Items: group of attributes
- Attributes: fundamental data type

AMAZON REDSHIFT

- Fully managed data warehouse

- Allows users to analyze data using standard SQL

- Allows users to run complex analytic queries against petabytes of data

- Redshift cluster helps you focus on your data

- Redshift has built in security

AMAZON AURORA

- High-end commercial database that is simple and cost effective

- Compatible with MySQL and PostgreSQL

- Pay-as-you-go service

- Offers a fast, distributed storage subsystem

- Stores multiple copies of data across multiple availability zones

- Amazon Aurora does not have to replay the redo log after crashing because I does it after every read operation

Amazon Aurora