

AWS - Neptune

<https://aws.amazon.com/neptune/>

Amazon Neptune

- Amazon Neptune is a **fast, reliable, fully managed graph database service** that makes it easy to build and run applications that **work with highly connected datasets**.
 - The core of Amazon Neptune is a purpose-built, **high-performance graph database engine optimized for storing billions of relationships and querying the graph with milliseconds latency**.
 - Amazon Neptune supports popular graph models Property Graph and W3C's RDF, and their respective query languages Apache TinkerPop Gremlin and SPARQL, allowing you to easily build queries that efficiently navigate highly connected datasets.
 - Neptune powers graph use cases such as recommendation engines, fraud detection, knowledge graphs, drug discovery, and network security.
- Amazon Neptune is highly available, with read replicas, point-in-time recovery, continuous backup to Amazon S3, and replication across Availability Zones.
 - Neptune is secure with support for HTTPS encrypted client connections and encryption at rest.
 - Neptune is fully managed, so you no longer need to worry about database management tasks such as hardware provisioning, software patching, setup, configuration, or backups.

Benefits

- Supports open graph APIs
- High performance and scalability
- High availability and durability
- Highly secure
- Fully managed

AWS - Glue (ETL)

- **AWS Glue** is a fully managed extract, transform, and load (ETL) service that makes it easy for customers to prepare and load their data for analytics.
 - It does not provide the ability to process your data in real-time, unlike Kinesis.
- AWS Glue is a fully managed extract, transform, and load (ETL) service that makes it easy for customers to prepare and load their data for analytics.
 - You can create and run an ETL job with a few clicks in the AWS Management Console.
 - You simply point AWS Glue to your data stored on AWS, and AWS Glue discovers your data and stores the associated metadata (e.g. table definition and schema) in the AWS Glue Data Catalog.
 - Once cataloged, your data is immediately searchable, queryable, and available for ETL.
 - AWS Glue generates the code to execute your data transformations and data loading processes.

Reference:

<https://aws.amazon.com/glue/>

Introduction to AWS Glue:

<https://youtu.be/qgWMfNSN9f4>