

Amazon Neptune

High-performance graph analytics and serverless database for superior scalability and availability

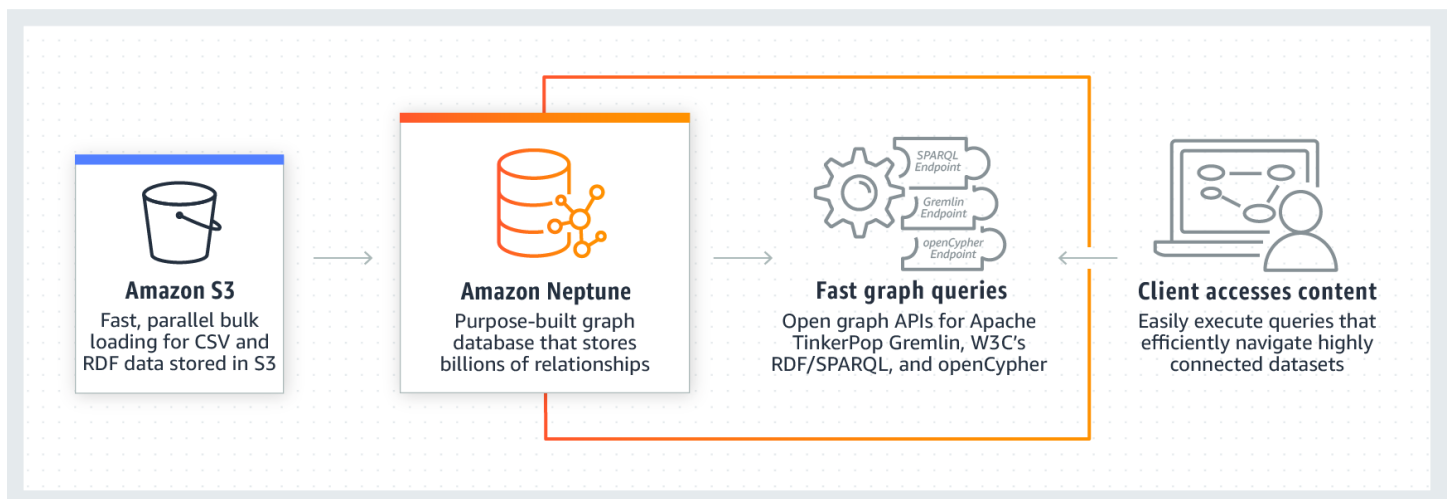
Amazon Neptune is the serverless technology for working with graph data. Amazon Neptune includes both Neptune Database and Neptune Analytics. Neptune Database is a serverless graph database designed for optimal scalability and availability. Remember, graph databases excel at managing complex relationships. They store data as nodes (dots), edges (lines connecting the dots), and properties instead of traditional tables or key-value pairs.

Concepts

- **Primary database instance:** Supports read and write operations, and performs all of the data modifications to the cluster volume.
- **Neptune replica:** Connects to the same storage volume as the primary DB instance and supports only read operations.
- **Cluster volume:** Neptune data is stored in the cluster volume, which is designed for reliability and high availability.

How It Works

Amazon Neptune Database is a serverless graph database designed for superior scalability and availability. Neptune Database provides built-in security, continuous backups, and integrations with other AWS services.



Use Cases

Fraud Detection
Model relationships between people, places, and transactions to identify suspicious patterns.

Security improvements
Model assets to relationships to see how different dimensions of your IT environment interact.

Recommendation systems
Improve customer personalization based on similar choices.

Social Networking
Model and analyze social connections, user interactions, and content sharing.