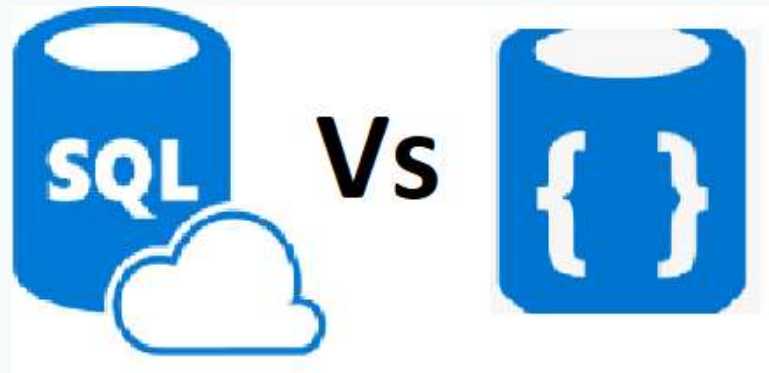




Cosmos DB

NoSQL Database

- Before moving to Cosmos DB, let check what is NoSQL database
- NoSQL are non-relational
- NoSQL databases have dynamic schemas for unstructured data
- NoSQL is better for unstructured data like JSON



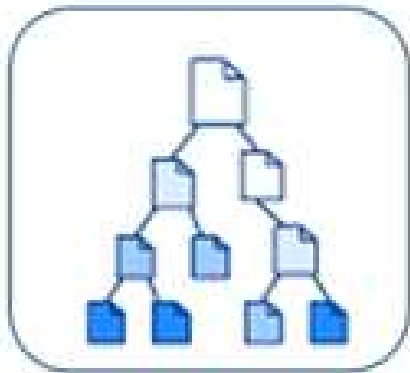
Why should go with Cosmos DB ?

- High-Throughput
- Low Latency
- Global Distribution
- Multi Consistency Model
- Support for different kind of APIs

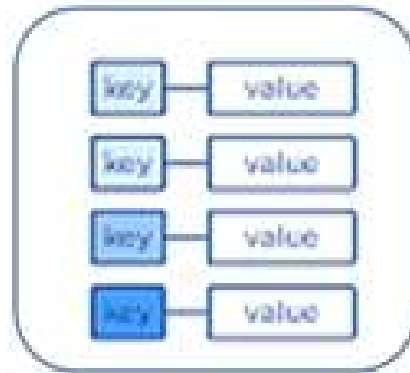
Cosmos DB

- Paas (Platform as a service)
- Cloud-based NoSQL database
- A fully managed, globally distributed NoSQL database service in Microsoft Azure
- It provides extremely low latency, high availability, and consistency.
- Supports multi-region (Geo) replication

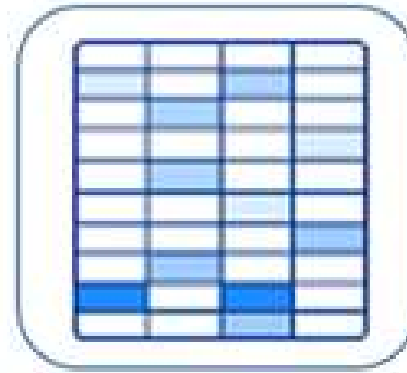
Cosmos database supports multi-model such as



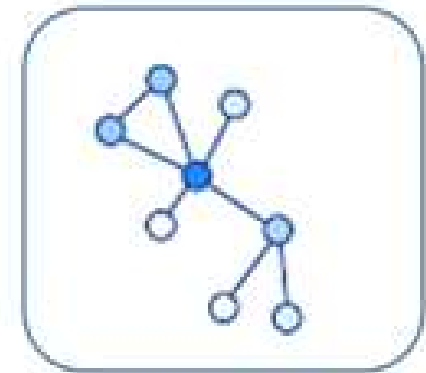
Document
Store



Key-Value
Store

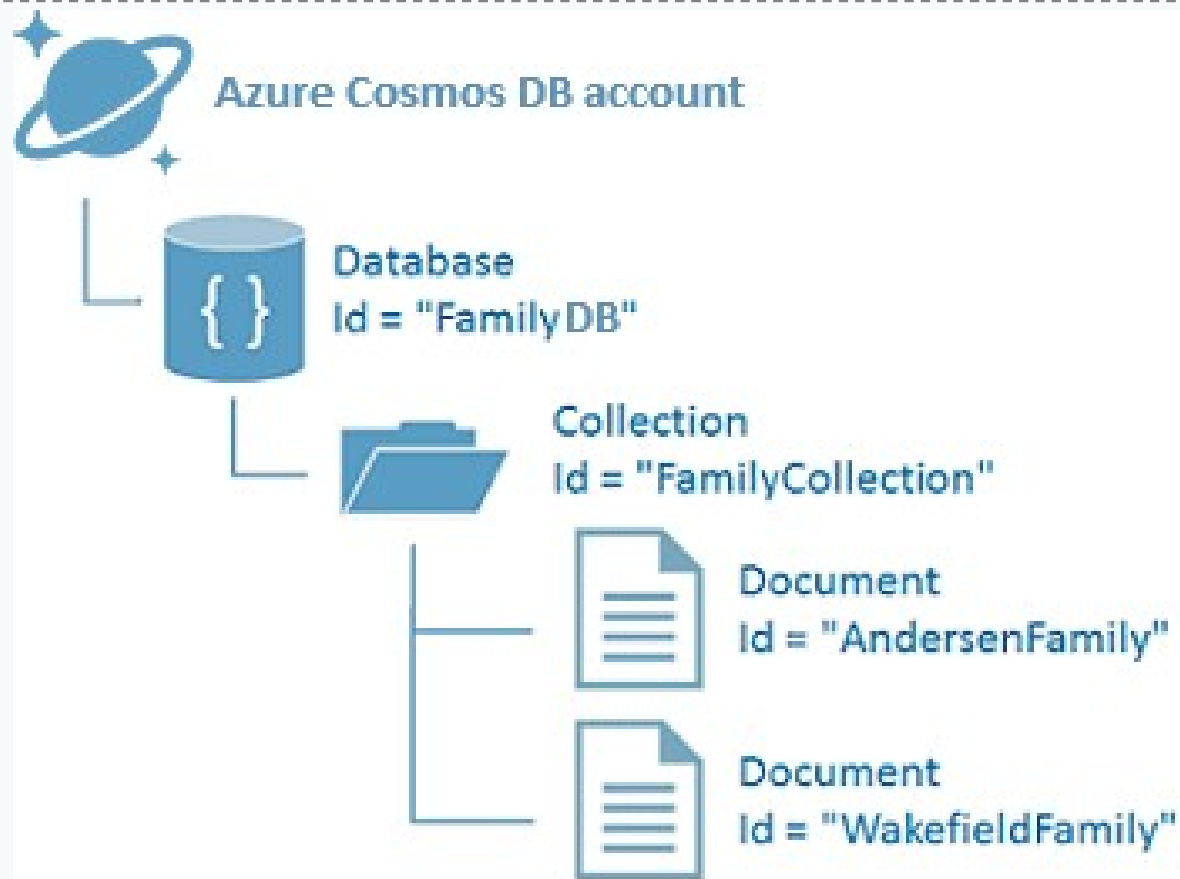


Wide-Column
Store

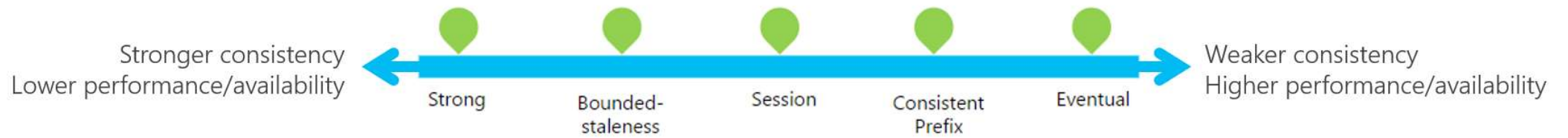


Graph
Store

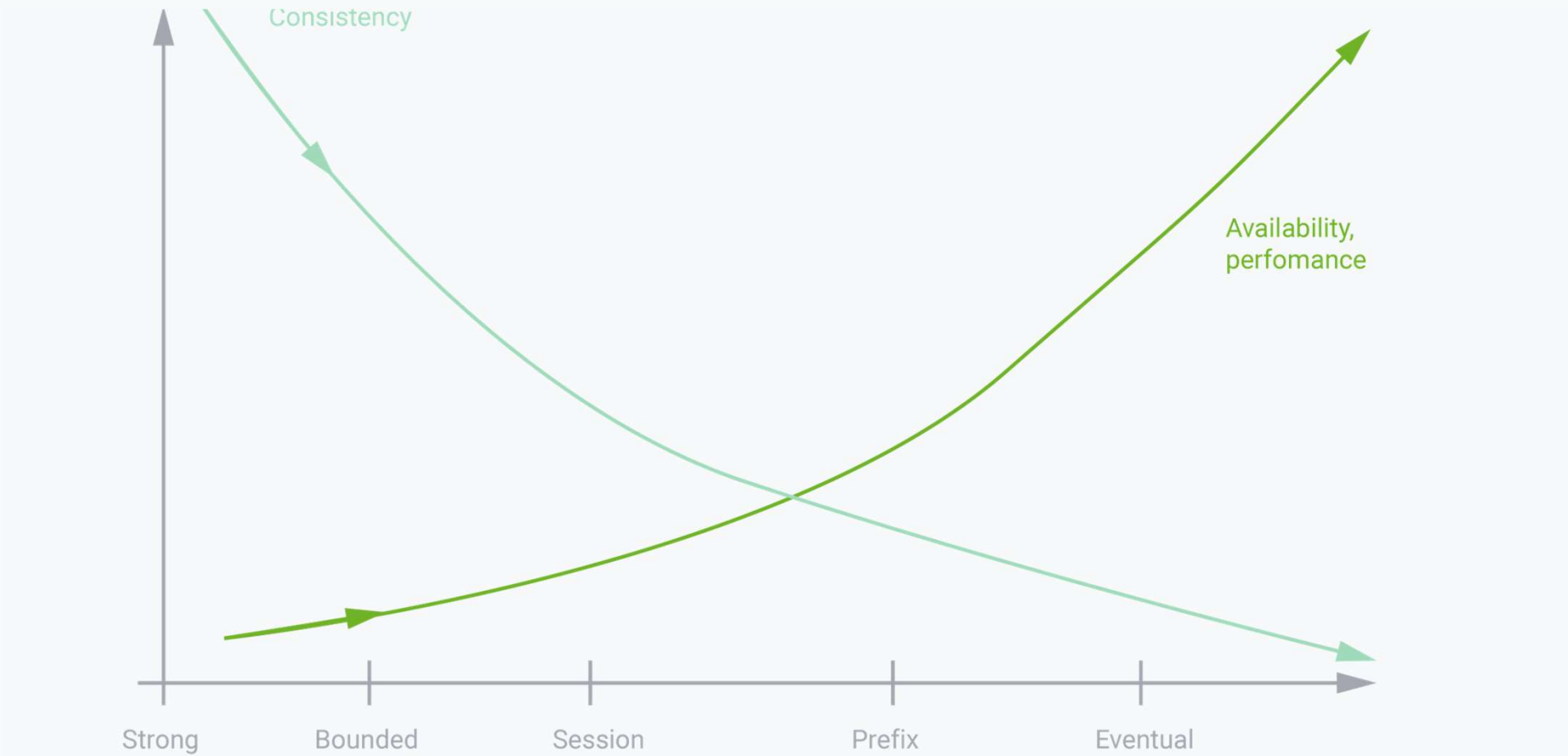
Cosmos DB Architecture



Consistency Levels



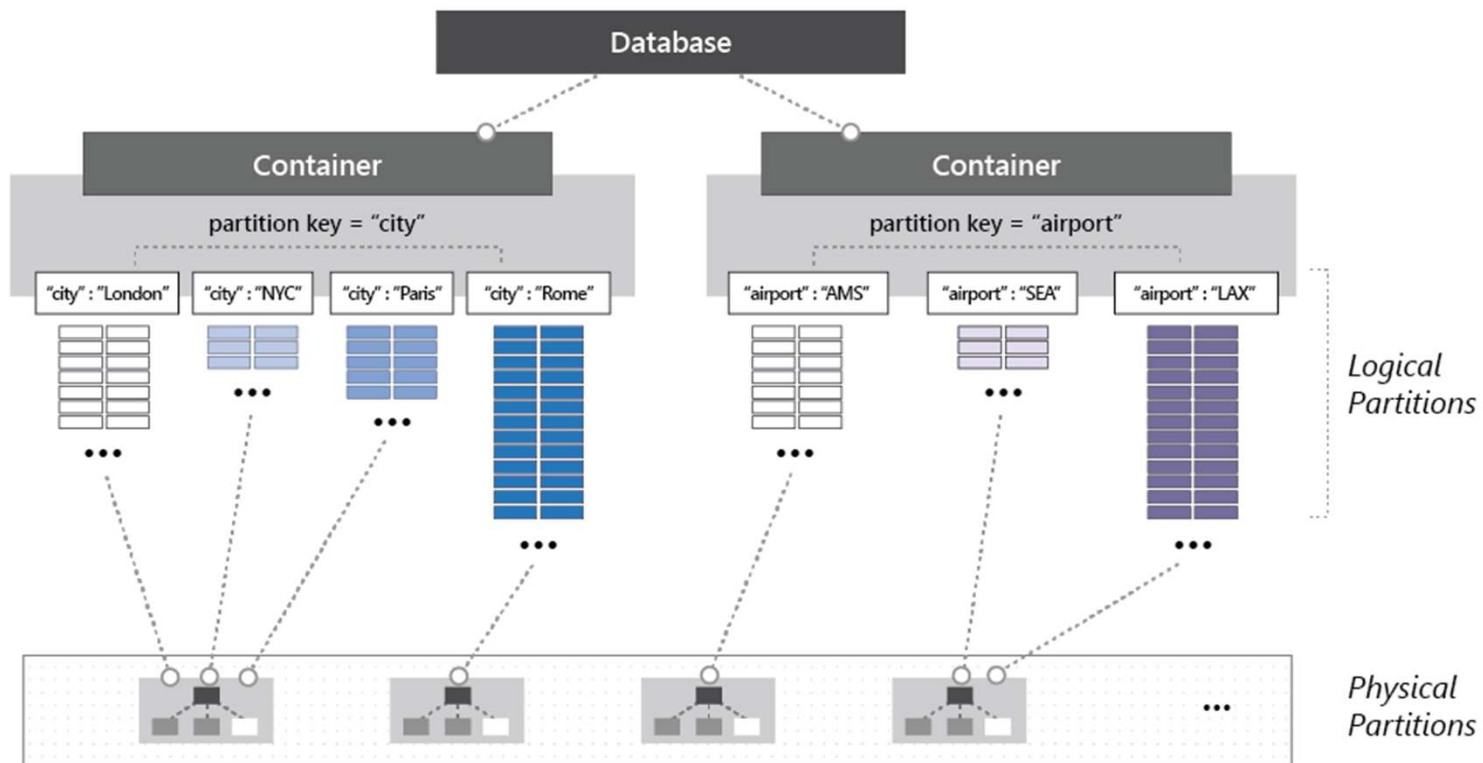
Consistency Levels



Consistency Levels



Partitioning



The screenshot shows the 'Scale & Settings' configuration page for an Azure Cosmos DB container named 'topItems'. The left sidebar contains a navigation menu with 'Scale & Settings' highlighted. The main content area is divided into two sections: 'Storage capacity' and 'Settings'.

Storage capacity
Unlimited

Throughput (1,000 - 50,000 RU/s)
10000 − +

Estimated spend (USD): **\$0.80 hourly / \$19.20 daily.**
[Contact support](#) for more than 50,000 RU/s

Settings

Time to Live
Off On (no default) On

30 second(s)

Partition key
/Item

Thank You