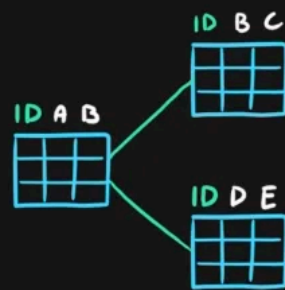


Azure Storage Services

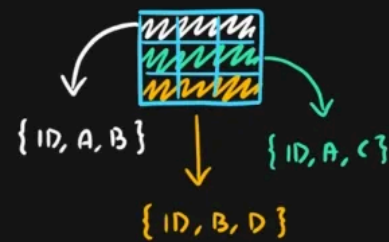
- Describe the benefits and usage of
 - Blob storage including storage tiers,
 - File storage,
 - Table storage,
 - Queue storage, and
 - Disk storage

Types of data

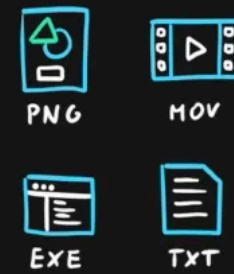
STRUCTURED



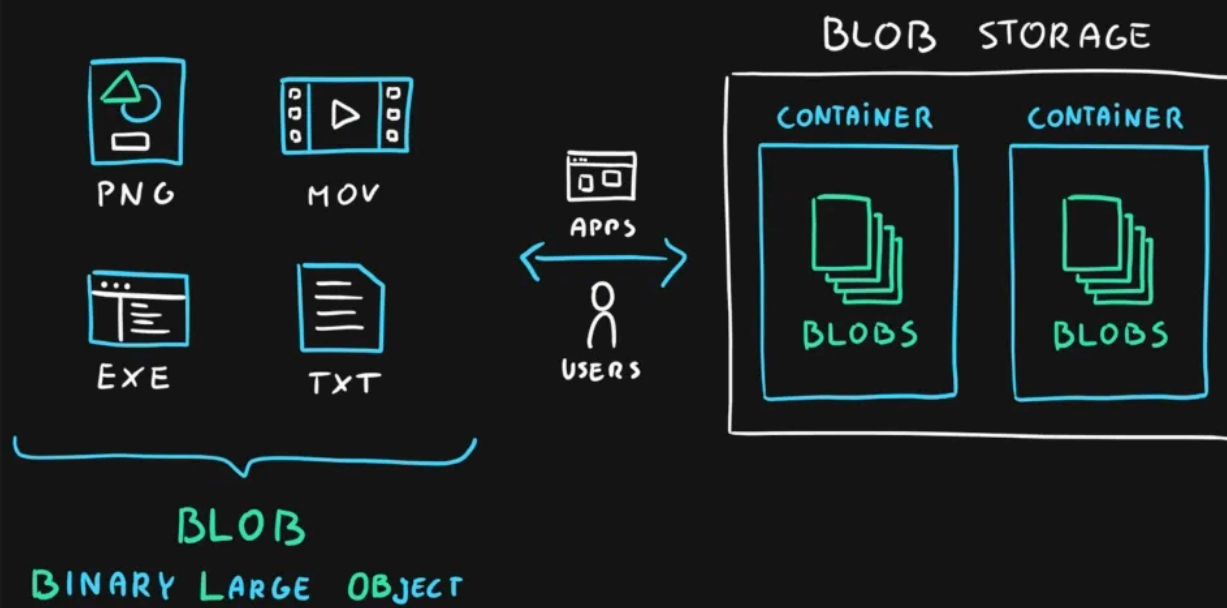
SEMI-STRUCTURED



UNSTRUCTURED



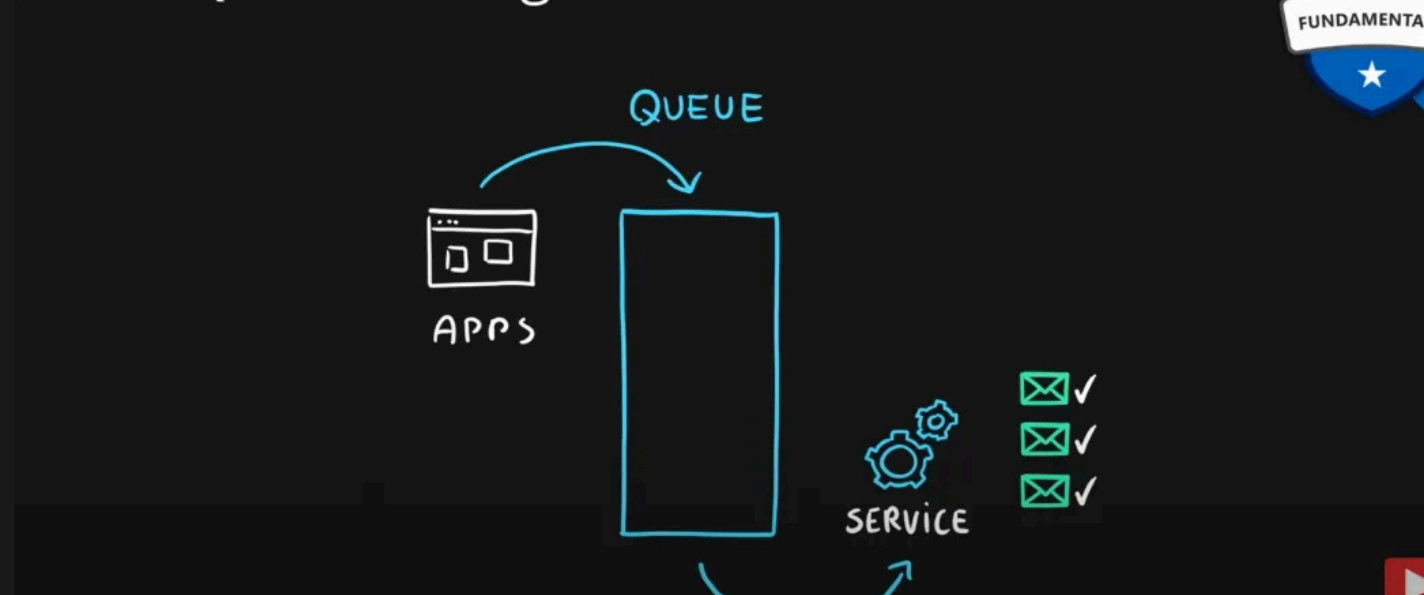
Azure Blob Storage



Key Characteristics

- Designed for storage of files of any kind (BLOB - Binary Large Object - file)
- Three storage tiers
 - Hot - frequently accessed data
 - Cool - infrequently accessed data (lower availability, high durability)
 - Archive - rarely (if-ever) accessed data

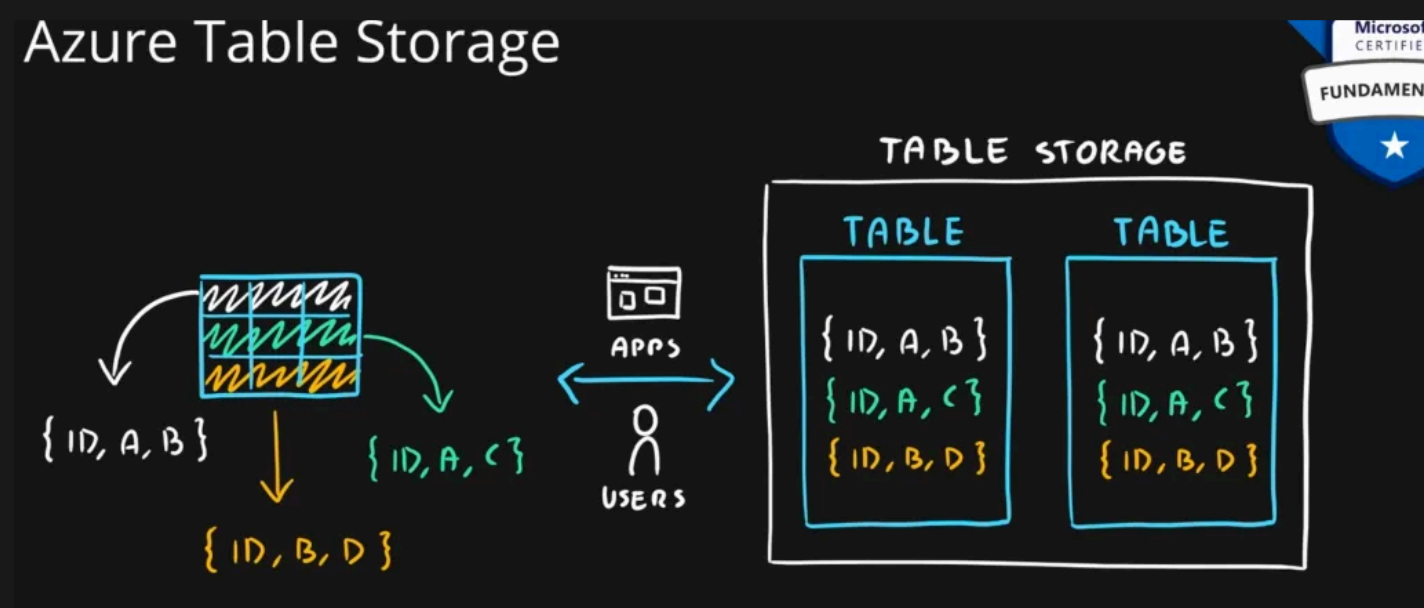
Azure Queue Storage



Key Characteristics

- Storage for small pieces of data (messages)
- Designed for scalable asynchronous processing

Azure Table Storage



Azure Table Storage



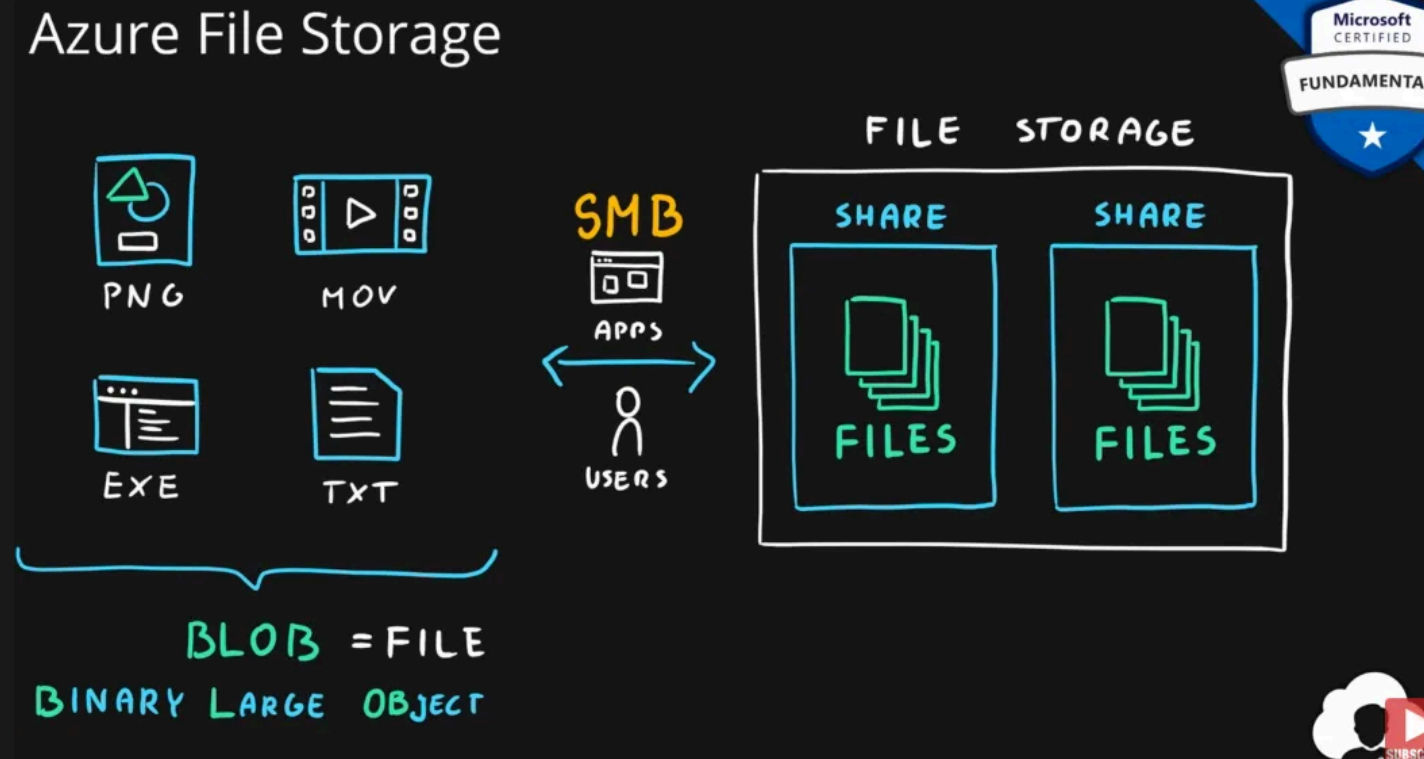
Key Characteristics

- Storage for semi-structured data (NoSQL)
 - No need for foreign joins, foreign keys, relationships or strict schema
 - Designed for fast access
- Many programming interfaces and SDKs

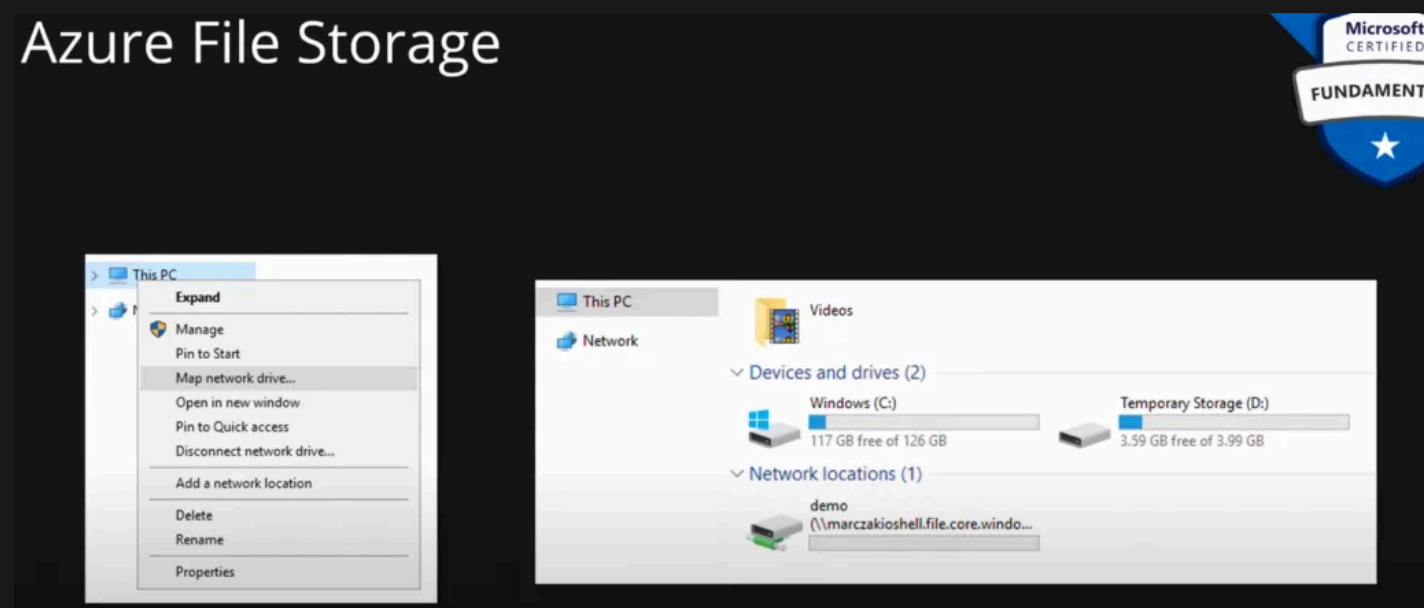


Azure File Storage

Azure File Storage

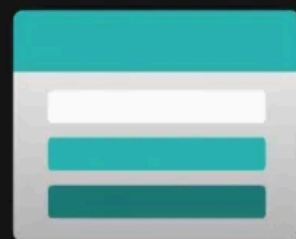


Azure File Storage



Key Characteristics

- Storage for files accessed via shared drive protocols
- Designed to extend on-premise file shares or implement lift-and-shift scenarios

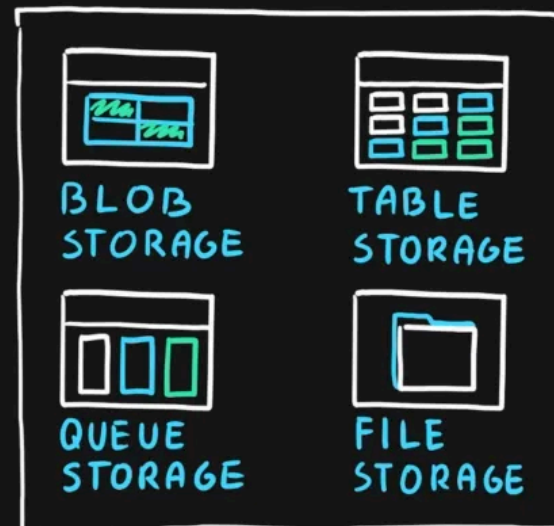


Azure Storage Account

Azure Storage Account

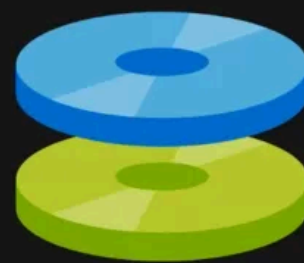


STORAGE ACCOUNT

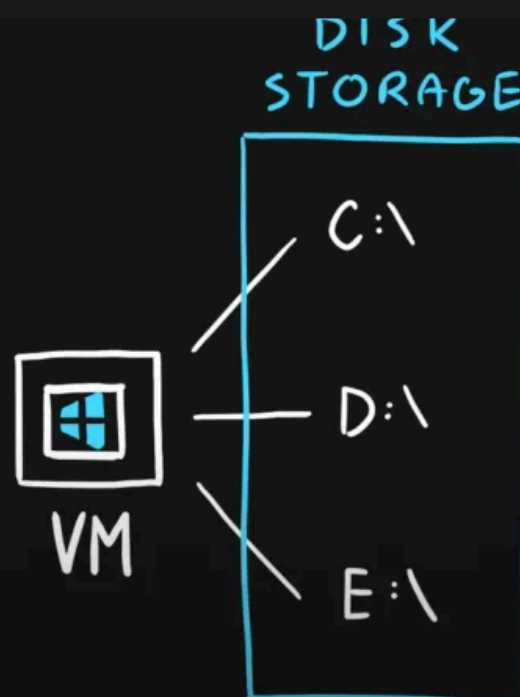


Key Characteristics

- Group of services which include
 - blob storage,
 - queue storage,
 - table storage, and
 - file storage
- Used to store
 - files,
 - messages, and
 - semi-structured data
- Highly scalable (up to petabytes of data)
- Highly durable (99.999999999% - 11 nines, up to 16 nines)
- Cheapest per GB storage



Azure Disk Storage



Key Characteristics

- Disk emulation in the cloud
- Persistent storage for Virtual Machines
- Different
 - sizes,
 - types (SSD, HDD)
 - performance tiers
- Disk can be **unmanaged** or **managed**

