AZURE 900 CLOUD FUNDAMENTALS

Microsoft Certification AZ-900: Azure Storage Services

AZURE STORAGE SERVICES

TABLES

NoSQL database

- Large amounts of structured data
- Fast authenticated access
- Store Tbs of data for scaled web apps
- Do not require complex data manipulation
- Query using clustered access

DISK STORAGE

- Virtual hard disk fo virtual machines, appllications and other services
- Access and use similar to on-premise storage
- Managed or unmanaged thus configarable by user
- Lift-and-shift applications
- Read and write data to persistent disks
- Store data in isolated virtual machine

QUEUES

- Store and retrieve messages
- Millions of messages up to 64 KB
- Processes asynchronously
- For processed where messages trigger events, such as picture uploads and thumbnail creation
- Each step in process is scaled separately

FILES

Network file shares

- Access with Server Message Block (SMB) protocol
- Multiple VMs can share, read, write and access files
- REST interface
- Storage Client libraries
- Shared access signature (SAS) in url allows world wide access
- Diagnostic logs, metrics and crash dumps

BLOBS

- Unstructued data such as text or binary
- Serve images or documents to browser
- Store files for distributed access
- Stream multimedia
- Backup, restore, disaster recovery or archive
- Data analytics on-premise or cloud

DATA STRUCTURES

Structured

- Adheres to schema
- Stored in databases as tables with rows and columns
- Keys to determine relationships
- Relational data & can be queried
- Sensor or financial data

Semi-structured

- Less organized
- Tags for organization and hierarchy
- Non-relational or NoSQL
- Books, blogs and HTML docs

Unstructured

- No structure
- Any type of data
- Represents most of data generated
- PDF docs, images, audio, video and JSON files

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