

optimize your data managment with azure storage

Choosing the right storage option is crucial for your business's success. But where should a business start? How does one go about selecting the options that provide the best fit for their data?

Whether dealing with large volumes of data or needing flexible options for unstructured information, Azure provides a reliable and efficient platform that offers various solutions tailored to your database storage needs.

Delve into Azure's diverse storage options, each tailored to specific data needs, from fully-managed databases to scalable file storage systems.

Prevevalent Azure

Data Storage Options

Azure SQL Database

Key Features: Scalability, Performance, Security

security.

Limitations: Higher costs for large-scale databases and limited control over hardware/software configurations.

Fully-managed relational database with

auto-scaling, built-in intelligence, and robust

Globally distributed, multi-model database service for any scale of web, mobile, gaming,

and IoT applications. Key Features: Global Distribution, Multi-model Support, Low Latency

Azure Cosmos DB

Limitations: Partitioning complexity and steep learning curve for NoSQL newcomers.

Azure Table Storage

NoSQL database store for semi-structured data. Ideal for rapid development using

Limitations: Query capabilities for complex and highly relational data are limited.

Key Features: Scalability, Fast Access,

key/attribute stores.

Encryption-at-rest

scenarios.

Hybrid Cloud Friendly

large-scale data.

Managed file storage service that supports

Key Features: SMB Protocol Support, Shared Storage,

Limitations: Reduced scalability and performance for

Azure File Storage

SMB protocol, ideal for lift-and-shift

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Azure Blob Storage

Key Features: SMB Protocol Support, Shared Storage, Hybrid Cloud Friendly Limitations: Reduced scalability and performance for large-scale data.

Optimized for storing massive amounts of

unstructured data, such as text or binary.

Azure Queue Storage

Messaging store for reliable messaging

or on-premises.

Messaging

between application components in the cloud

Key Features: Scalability, High Availability, Secure

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Limitations: Restricted message payload size, no payload types.

optimal storage **Navigate through the** decision-making process with ease, selecting the ideal Azure storage type for your

data's unique structure and

business requirements.

choosing the



data.

distribution.

Access Patterns

access.

operations.

minimal latency.

Random Access: Azure Blob

Sequential Access: Azure Queue

File-Based and Shared Access:

Azure File Storage for shared access via SMB protocol.

Globally-Distributed Access:

Azure Cosmos DB for applications requiring global access with

Storage for flexibility in data

Storage for sequential data

Globally-Distributed or

web, mobile, gaming, and IoT applications needing global

for relational database structures.

Unstructured: Azure Blob Storage for large amounts of unstructured

Mixed or File-Based: Azure File

Storage for cloud-based file shares.

Multi-Model: Azure Cosmos DB for

Semi-Structured: Azure Table Storage for its NoSQL features.

share capabilities. Globally-Distributed, **High-Throughput Scenarios:** Azure Cosmos DB for global scale transactions.

Transactional Value

volumes.

High: Azure SQL Database or Azure

Medium: Azure Table Storage for a balance in performance and cost.

Low: Azure Queue Storage for low

File-Sharing Workloads: Azure

File Storage for cloud-native file

throughput and messaging.

Blob Storage for high transaction

- - Moderate Growth: Azure SQL Database or Azure Table Storage for scalable data structures. Stable/Minimal Growth: Azure Queue Storage for predictable

for scalable storage needs.

Rapid Growth: Azure Blob Storage

File-Based Scalability: Azure File

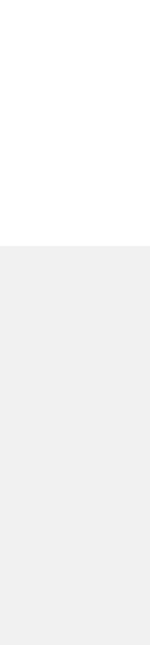
Storage for easily scalable file

Scalability Needs

Global Scalability: Azure Cosmos DB for applications requiring worldwide distribution and scalability.

X

000 0 data storage **Explore essential best practices for Azure data storage** and strategies to manage data across various storage types efficiently and securely, ensuring optimal performance and security. **Data Partitioning Regular Backups**



Efficient Indexing

diverse storage capabilities into your business environment. With US Signal, experience a blend of Microsoft's advanced technology and our proven solutions, tailored to elevate your data handling to new heights of efficiency and security.

Leverage the full power of Azure Storage through US Signal's expertise. Our deep-rooted partnership with Microsoft equips

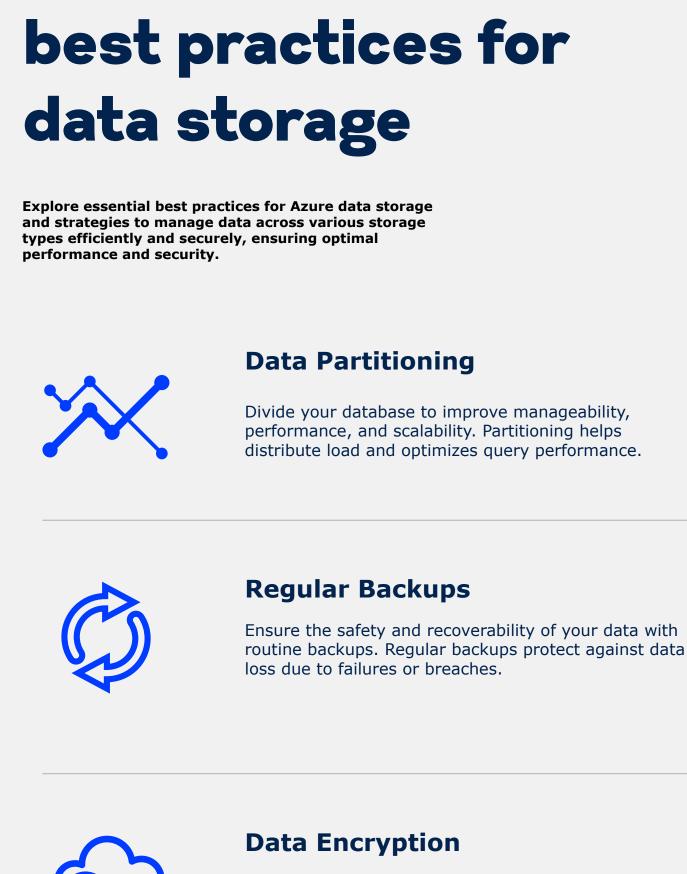
management strategies. As a recognized Microsoft Solutions

us with the tools and knowledge to enhance your data

information and maintaining compliance.

Implement indexing strategies to speed up query processing. Efficient indexing leads to quicker data retrieval and improved application performance.

Contact US Signal today and transform your data storage strategy with the best of Microsoft Azure at your fingertips.



Partner with expertise in Infrastructure (Azure), Data & AI (Azure), Digital & App Innovation (Azure), and Modern Work, we're uniquely positioned to seamlessly integrate Azure's

Secure your data both at rest and in transit. Encryption is crucial for protecting sensitive