

Exam AZ-203

Developing Solutions for Microsoft Azure

Agenda

- Storage Account
- Blob Storage
- Content Delivery Network
- Table Storage

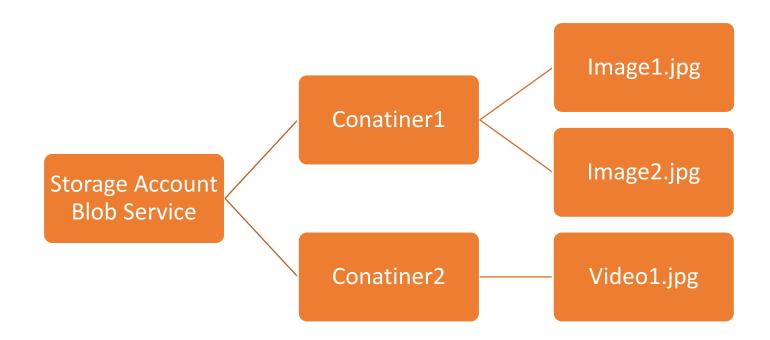
Blob Types



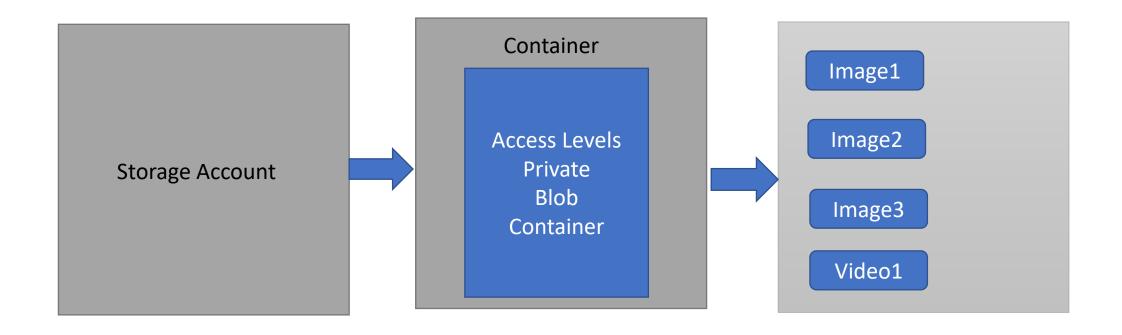




Blob Structure



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http://mystorageaccount.blob.core.windows.net/container/Image1.jpg

http://mystorageaccount.blob.core.windows.net/container?comp=list

Access Levels



Private

Authenticated request



Blob

Anonymous read access for blobs but cannot list all the blobs inside container.



Container

All container and blob data can be read by anonymous request. Clients can enumerate blobs within the container by anonymous request but cannot enumerate containers within the storage account.

Security

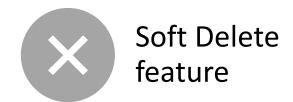




SAAS token

Features







Demo

- Create a container and Blobs
- Showcase access level
- Soft Delete
- .Net SDK



Concurrency

1. Optimistic concurrency –

An application performing an update will as part of its update verify if the data has changed since the application last read that data. For example, if two users viewing a wiki page make an update to the same page then the wiki platform must ensure that the second update does not overwrite the first update – and that both users understand whether their update was successful or not. This strategy is most often used in web applications.



2. Pessimistic concurrency –

An application looking to perform an update will take a lock on an object preventing other users from updating the data until the lock is released. For example, in a master/slave data replication scenario where only the master will perform updates the master will typically hold an exclusive lock for an extended period of time on the data to ensure no one else can update it.

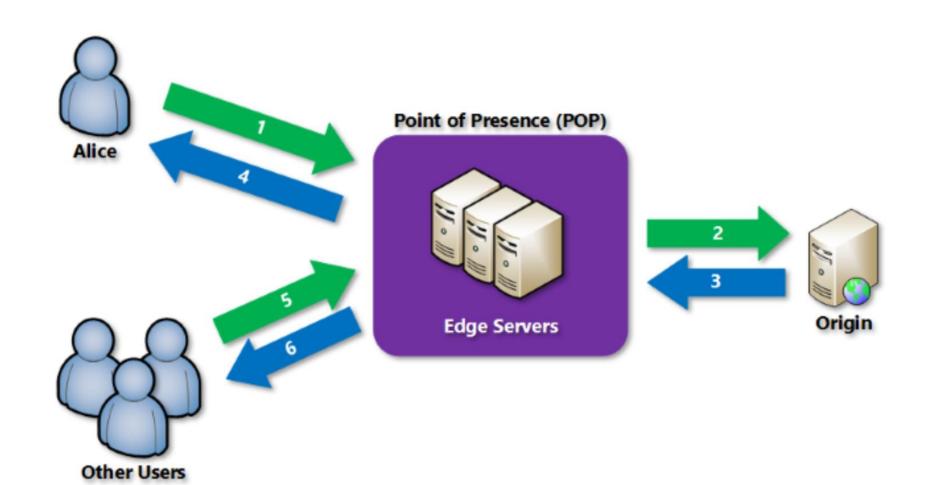


approach that allows any update operations to proceed without verifying if any other application has updated the data since the application first read the data. This strategy (or lack of a formal strategy) is usually used where data is partitioned in such a way that there is no likelihood that multiple users will access the same data



Azure CDN Overview

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Cache Rules

- **Ignore query strings**: Default mode. In this mode, the CDN point-of-presence (POP) node passes the query strings from the requestor to the origin server on the first request and caches the asset. All subsequent requests for the asset that are served from the POP ignore the query strings until the cached asset expires.
- Bypass caching for query strings: In this mode, requests with query strings are not cached at the CDN POP node. The POP node retrieves the asset directly from the origin server and passes it to the requestor with each request.
- Cache every unique URL: In this mode, each request with a unique URL, including the query string, is treated as a unique asset with its own cache. For example, the response from the origin server for a request for example.ashx?q=test1 is cached at the POP node and returned for subsequent caches with the same query string. A request for example.ashx?q=test2 is cached as a separate asset with its own time-to-live setting.



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Azure Table Storage







Uses JSON to serialize the data



Flexible schema changes



Scalable and highly available



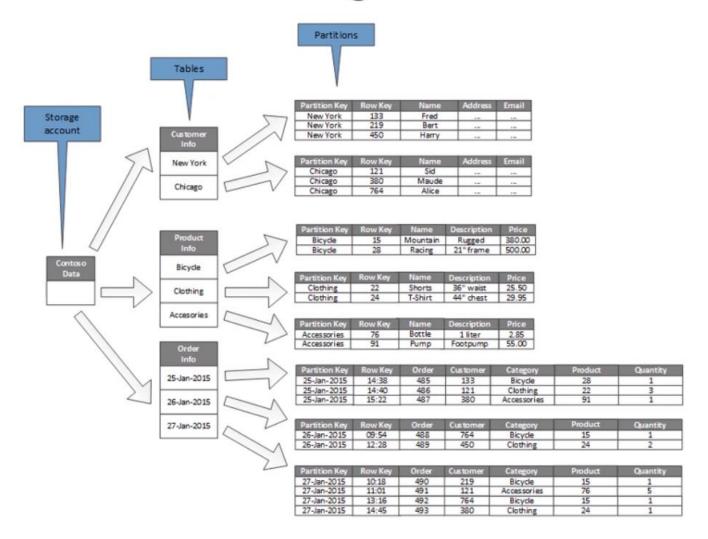
Single region with optional secondary



read-only region

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Partitioning schemes



Demo

Table Storage Rest API

