Object storage classes on the OTC Cloud

DRP solution architecture · https://nuabee.com/documents/object-storage-classes-on-the-otc-cloud/

Nuabee's use of object storage

Object storage is a technology for managing and manipulating the storage of data in an unstructured format as distinct entities called "objects".

The most widely used object storage service is called S3 **(Simple Storage Service)** , and it has been in massive use for over 10 years (and created in 2006 by AWS).

S3 object storage (OBS) on the OTC Cloud has the following 3 storage classes:

- **Hot** storage,
- **Warm** storage
- **Cold** storage.

In this way, OTC's 3 classes of object storage fully meet customers' needs in terms of storage performance and cost.

Standard hot storage

Standard storage features low access latency and high throughput. It is applicable to frequently accessed storage (several times a month) or small files (<1 MB) requiring a fast response.Hot Storage is replicated on 3 AZ	

Typical application scenarios for Standard Storage include Big Data, mobile applications, videos, social media images.

In Nuabee context, we use this class for all server protection (in PRA class, backup with testing and backup without testing).

Warm storage

Warm storage is applicable to semi-frequently accessed storage (less than 12 times a year) with data requiring rapid response. This storage offers the same durability, access latency and throughput as Standard storage, but at a lower price (around 50%). However, warm storage has slightly lower availability than standard storage.Warm storage is replicated on 3 AZ	

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Application scenarios include file synchronization or enterprise-level file sharing and backup.

In Nuabee context, we generally use this class for all M365 backups and in contexts where long backup retention is required.

Cold storage

Cold storage is applicable to the archiving of data that is rarely consulted (once a year). Cold storage is secure, durable and inexpensive, and can replace tape libraries.	

Scenarios include data archiving and long-term data retention for backup.

In Nuabee context, we generally use this class for data archiving and backups: beware, it can take several hours (and significant costs) to restore cold storage data.

Note: the minimum duration for storing an object in Cold Storage class is 90 days.