

# Moving and Tiering Data for a Large Biopharmaceutical Business' Hybrid Cloud

## INDUSTRY

Pharmaceuticals

## RESULT

- Transparent and high performance data mobility between file and object storage
- Tiering is achieved
- 70% upfront savings than other solutions

## THE CHALLENGE

- Existing file storage service tiers data in a proprietary format
- Inadequate performance in tiering large amounts of data
- The tiering must be available on prem, across facilities, in hybrid, and in the public cloud

## THE SOLUTION

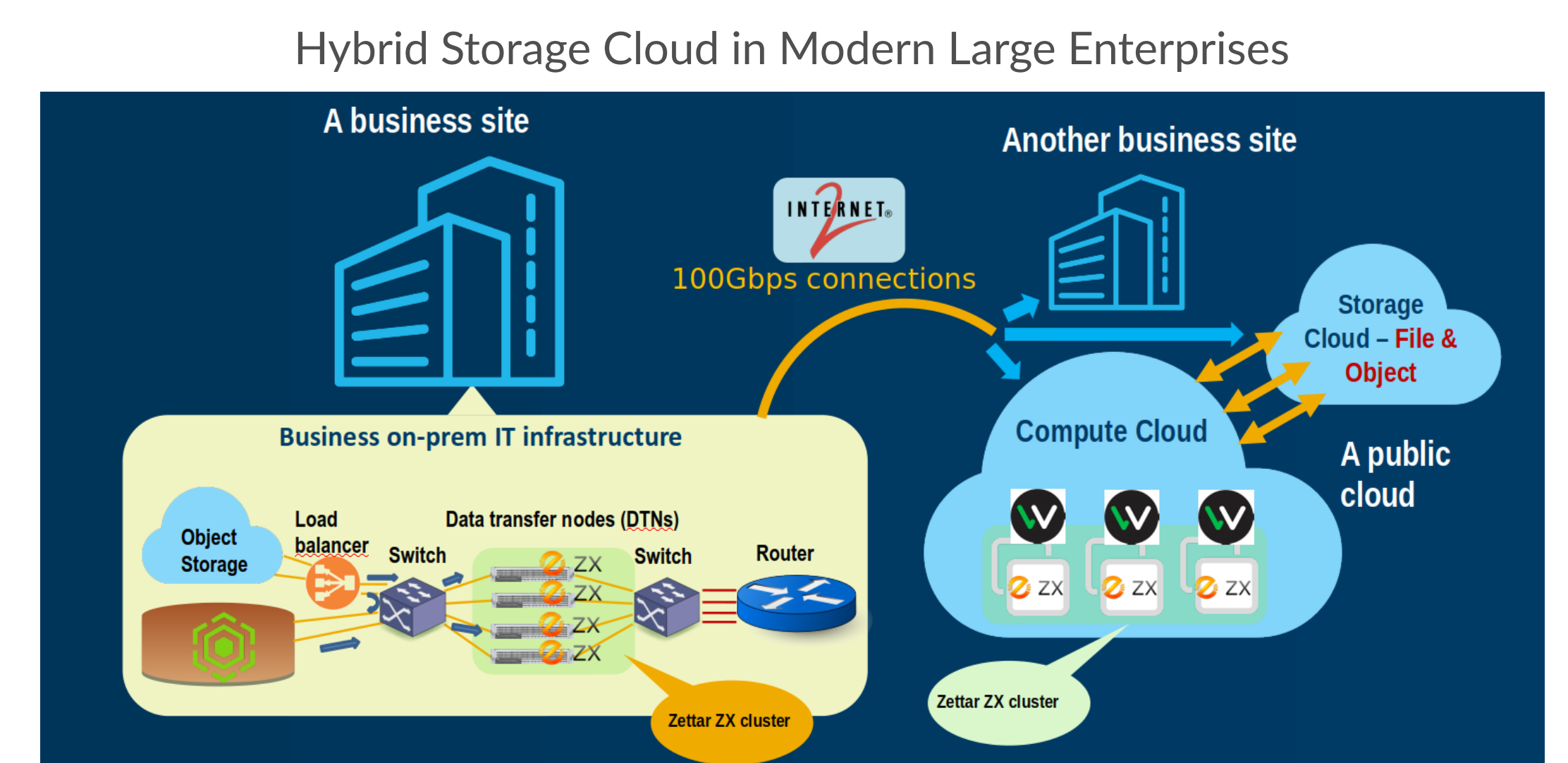
- A data mover that can run anywhere and supports both file and AWS S3 storage transparently
- API-enabled automation streamlined tiering data management
- Scale-out architecture to meet data growth and high-demand

## BACKGROUND

A large global biopharmaceutical company migrated mostly file based storage to AWS S3 compatible object based storage (aka private cloud) with the provision to “burst out” to the actual AWS, both its compute (EC2) and storage (S3). High-performance parallel file systems are used as cache for file based applications. The situation is illustrated below:

There are three basic needs:

- Moving data between its on-prem file based storage and its AWS S3 compatible object storage
- Moving data between its on-prem AWS S3 compatible object storage to its file based storage in AWS compute cloud
- Moving data between its file-based storage in AWS compute cloud and AWS S3



## PROBLEM STATEMENT

A data mover solution for transparently moving data between a parallel file system and object storage is needed. Furthermore, the data mover should handle a hybrid environment.

## LIMITATION OF CURRENT SOLUTIONS

What the company faced is a kind of “tiering” between two types of storage services. Although some commercial parallel file systems have built-in tiering between file and object storage, the data tiered into object storage is not usable to other applications targeting object storage.

## ZETTAR SOLUTION

By introducing zettar as the data mover between a parallel file system and an object storage, both on-prem and in the compute cloud, the tiered data is stored as regular data objects that can be readily used by any S3 specific applications. In addition, its scale-out capability meets the performance requirements as needed.

## MAJOR FEATURES EMPLOYED

scale-out; RESTful API; parallel processing of multiple storage systems and volumes, both file and object storage; “single-site mode” which enables zx to read/write data directly to a remote file or object storage while itself also act as data sender or receiver.

## ALSO APPLICABLE

- Any enterprise employing a hybrid cloud with intention to burst to the public cloud
- Enterprises in any industry moving massive amounts of data to the cloud
- Service providers which wish to provide its customers easy ways to move data between the provider and the cloud.