

## SOLUTION BRIEF

# Cloud Storage Where You Need It On-Premises and In-the-Cloud

### Challenge:

In the cloud world, storage is measured in terabytes and petabytes. Growth has occurred in two dimensions, both in the number of files and in the size of files, driven by machine data, multimedia, and consumerization. Traditional file storage technologies either slow to a crawl or simply cannot continue operating under this load.

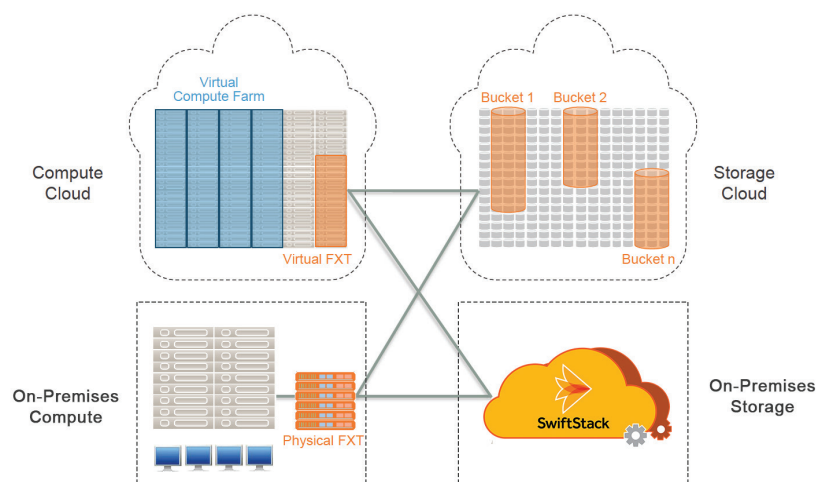
Object Storage solves these challenges, most applications still require traditional file access. Hybrid cloud solutions deliver numerous benefits such as enabling enterprises to retain custody of data, remain in compliance with regulations, and improved performance with dedicated hardware when compared to public cloud storage alone.

### Solution:

SwiftStack and Avere Systems enable new levels of high performance and massively scalable storage by combining SwiftStack Object Storage with Avere FXT Series Edge Filers. The joint solution enables Enterprises to store their data and run their applications on-premises and burst into the public cloud meeting short-term peaks or unanticipated demand.

No matter the location of the data, Enterprises can now have a cost effective solution that delivers the best of both worlds – superior performance with massively scalable and durable storage in a single global namespace. Avere FXT Edge filers deliver enterprise class NAS functionality including NFS and CIFS support with scalable performance and redundancy to support application access of shared storage resources.

SwiftStack delivers private cloud storage for Enterprises, offering freedom of choice for genuine simplicity and TCO at scale. SwiftStack Object Storage has a single unified namespace within and across data centers and can easily scale from a handful of terabytes to hundreds of petabytes. Performance scales linearly with addition of new Nodes enabling administrators to grow capacity and performance without interruption or complexity.



### BENEFITS

- Flexibility to deploy across public/private clouds and data centers
- Scale performance across deployments
- AES-256 encryption keeps data secure
- Compression for efficient capacity utilization
- Cost savings of up to 70% over traditional NAS

### SIMPLIFIED MANAGEMENT

- Global namespace integrates public/private cloud storage and NAS
- Transparent data mobility and replication across heterogeneous storage
- Rich, historical statistics and graphical monitoring
- Plug and Play system upgrades eliminate “forklift” data migrations

### USE CASES

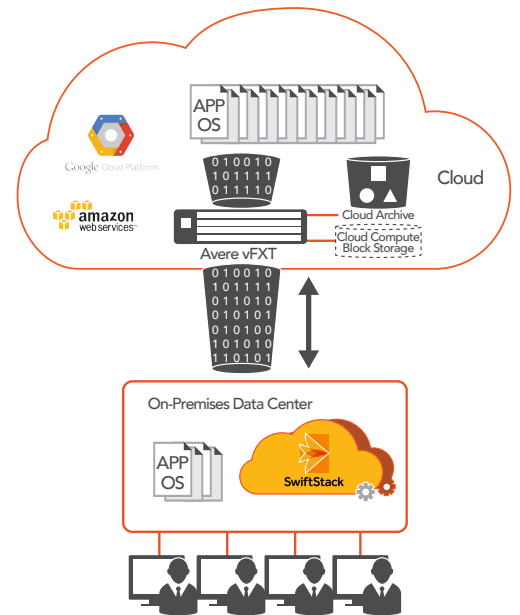
- Media & Entertainment
- Life Sciences
- Scientific Computing / HPC
- Financial Modeling

## Cloud Bursting:

Bursting compute works really well. Bursting storage however is not as feasible given the limits of networks. To make bursting applications to the cloud effective, existing datasets living in a private data center must be made available to the cloud compute while maintaining performance and continue providing access to applications still consuming the data on premises.

Avere FlashCloud combines SwiftStack Object Storage with traditional NAS into a highly scalable single global namespace. The Avere Virtual FXT operates in the Amazon EC2 compute cloud and Google Compute Engine, presenting your on-premises data storage resources to I/O-hungry applications that require mounted NAS filesystems.

Applications can easily burst into the public cloud and have access to the data they need at multi-gigabyte/sec transfer rates, without planning requirements for rack space, capital budget, or additional staffing.



## Transparent Data Migration:

As more users, new applications, and richer data push existing storage systems to their limits, data migration is necessary to rebalance storage. However, this leads to user disruption, application downtime, and reduced productivity. Avere FlashMove takes the pain out of legacy NAS refresh cycles as Enterprises transition toward private cloud storage. Avere FXT clusters serve active data to application servers and users while behind the scenes FlashMove software moves data transparently between NAS filers and SwiftStack Object Storage.

## Enhanced Disaster Recovery:

Enterprises require continuous access to critical data to keep the business running. Typical DR processes include replicating or mirroring critical data to a secondary site, but implementing such a process is expensive, difficult to manage, burdens storage performance, and does not work between vendors. SwiftStack and Avere FlashMirror dramatically simplify the implementation of a DR solution. FlashMirror replicates data on NAS filers to SwiftStack Object Storage, which will replicate data across sites -- eliminating the need to purchase expensive replication software.



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