

SFD6 - Wednesday AM

Avere

<http://www.averesystems.com/solutions/cloud-nas>

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"Reinvent storage with a Hybrid Cloud NAS solution that integrates public and private object storage with legacy NAS into a single, cost-effective pool with scalable performance for users everywhere"

Data growth - that's the problem across a number of customers

Compares traditional nas to nas optimization to hybrid cloud nas

- unlimited perf with the cloud
- lowest TCO (less admin and DCs)
- consolidated object and NAS - GNS
- Global access via cloud

Customer needs:

- low-latency file access
- scalable perf and HA
- Familiar CIFS + NFS interfaces
- manage as a single pool of storage
- high security
- efficiency

Avere delivers:

- edge-core arch
- scale-out clustering
- FlashCloud file system for object storage
- GNS, FLashMove, FlashMirror
- AES-256 encryption
- Compression

Avere is a "file service provider"

Fastest path to market is to leverage S3 api

SMB 3 is on the roadmap, but currently SMB2
NFSv4 support not there yet

FlashMove and FlashMirror - schedule a job to move off exports, or scheduled archiving

Global namespace - server with multiple mount points
Supports 24 vservers per cluster

Not a protection solution - if your filer doesn't have HA, there's only so much Avere will do for you in an outage

Avere Foundations
Hybrid Cloud NAS
Data Management
Global Namespace
Performance

Adding to the Foundation - Accessibility
"Data Accessibility for Compute"

Not everyone's using all cloud - but a lot of people are.

"It's not about the petabytes - it's about the petaflops"

Virtual FXT

- SW-only version of FXT Edge Filer
- Runs in Amazon EC2
- Full FXT Functionality

Benefits

- Flexibility to deploy apps in the cloud
- Simple to install and use
- Best-in-class NAS functionality

Use Cases

- Big data processing in the cloud (rendering, genomic sequencing)
- File-based apps in the cloud (document management, file serving)
- Active archive (tier-2 storage in the cloud)

One of the benefits obvious of not doing it with hardware - they can push out updates a lot quicker

Cloud challenges

- Disk is slow
- unfamiliar object interface
- high latency to remote storage
- no easy on-ramp to compute cloud

Global namespace can span Virtual FXT and Physical FXT

On-premises storage for EC2 compute as a use case

Supports R3.2XL Memory Optimized, moving to R3.8XL Memory Optimised

Feeling locked in? Use FlashMove or FlashMirror and get the data back to some other location

Mirror to one destination at the moment

Minimum cluster size is 3 nodes (physical or virtual)

Bare-metal vs virtual still seems to be a consideration in terms of performance

Over 100 customers - spread across verticals. A lot in rendering.

A block solution is not on the roadmap

Accessing the same bucket is hard - working on Global file system to control access, etc. It's on a roadmap and being worked on - no timeline at this stage

They were all ready to go with support for Glacier, but then AWS did a price drop on S3

Currently using supermicro for the hw appliance