# Hybrid Cloud Tiering

**DATA SHEET**

# Integrate cloud storage without changing workflows or systems

Cloud or object storage is the ideal platform for storing massive amounts of inactive or cold data as it provides highly scalable, low-cost storage on-premises or as a service through a public cloud. However, cloud storage does not typically provide the performance required by frequently-used (hot) data, and other solutions such as cloud gateways require tradeoffs in management complexity.

InfiniteIO Hybrid Cloud Tiering optimizes NAS capacity and costs by intelligently finding and migrating inactive data to cloud storage. Customers and partners can instantly tier data without having to constantly rescan the file system, enable transparent file access, accelerate the performance of existing NAS, and manage unified pools of file and object storage—without making any changes to existing users, apps or storage.
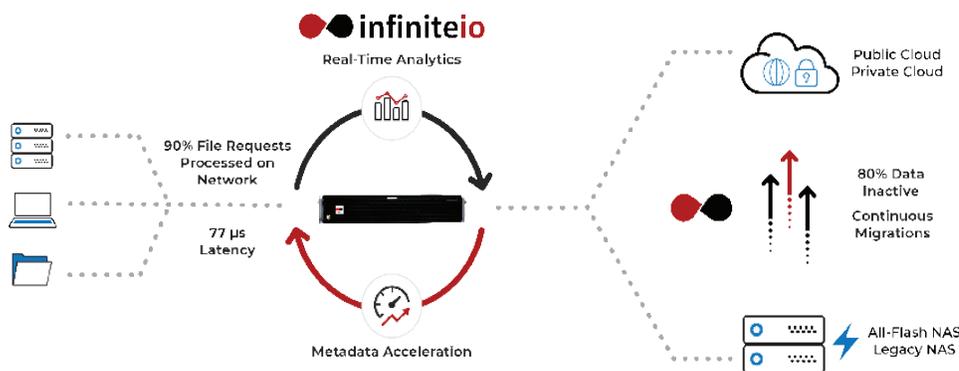


*Transparently migrate inactive (cold) data from existing storage to a public or private cloud or low-cost NAS, while making files appear and perform as if they were still on primary storage.*

## Continuous, Policy-Based File Migration

InfiniteIO's Hybrid Cloud Tiering solution dramatically reduces storage costs using file migration policies that move inactive data to low-cost public or private object storage. Using InfiniteIO infiniview™ management software, customers can create policies based a number of variables, from file activity and last access date to file type, user ID, wildcards and other combinations, to continuously migrate files to lower-cost storage.

## Key Solution Benefits

**Cost Savings**
Migrate inactive data to a cloud, lowering storage costs by as much as 80%

**Totally Transparent**
No new mount points, file systems or virtualization; files appear as local storage regardless of location

**Ultra High Performance**
File metadata is served out of memory for local and cloud-migrated data to maximize performance

**Quantifiable ROI**
No-risk simulation modes calculate expected savings

**Active Migration**
Using IT-defined policies, data is continuously migrated to a cloud or low-cost NAS.

**Secure**
Local keys, encryption, and data sniblets™

**Fault-tolerant**
Fail-to-a-wire, dual-power and cloudbased system recovery
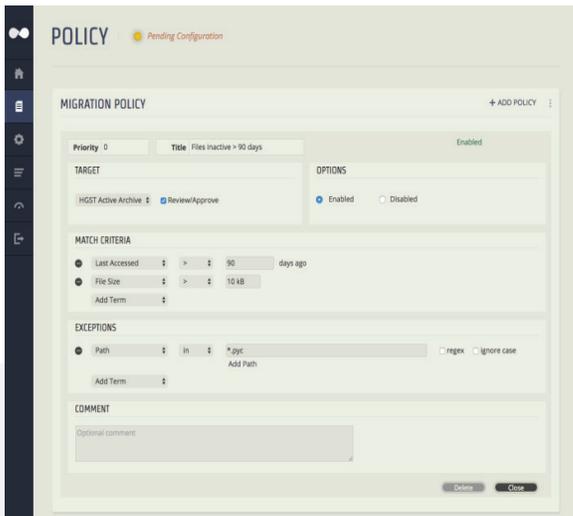
All migrated files appear as if they reside on primary storage. If a user accesses a migrated file, the file is moved off the cloud, served up, and put back on primary storage until it again meets the criteria for cloud storage migration. There is no need for storage administrators to manually move data. They simply create policies using clear business logic and InfiniteIO's Hybrid Cloud Tiering continuously migrates data to the optimum storage location.

InfiniteIO also provides a file data analytics tool free of charge, called Infinite Insight, that quickly finds inactive data and helps users visualize potential cost savings after migration to cloud storage.

*Infiniview™ runs on any web browser and provides a unified view of cloud-migrated data and the connected storage systems. Its robust policy-definition interface allows for simple creation of advanced data migration policies.*

| Specifications | Hybrid Cloud Tiering on NSC-240 Platform | Hybrid Cloud Tiering on NSC-210 Platform |
|---|---|---|
| Ethernet port pairs | 12 (cluster) @ 40 GbE | 8 (bypass), 24 (cluster) @ 10GbE |
| Total rack space | 8U (cluster) | 2U (bypass), 8U (cluster) |
| Deployment modes | inline passive, inline active | inline passive, inline active, bypass |

## Highest Performance, Transparent Access

InfiniteIO collects metadata from the storage systems it is supporting and puts it in a memory-based metadata map. Unlike a cache, the metadata is always hot. After the initial file systems scan, deep packet inspection is used to keep metadata current for both primary and cloud-migrated data. By serving metadata requests out of memory, InfiniteIO is able to accelerate the performance of installed primary storage and make cloud-migrated data perform like local storage.

## Clustering and Bypass Models

Clustering models interconnect to form a logical unit. Minimum cluster size is three controllers. Clustered units can withstand controller and storage system failures, and also support rolling system upgrades while in service. The bypass* model does not cluster. On system or power failure, connected Ethernet port pairs turn into a wire, maintaining connectivity to attached storage systems.

* NSC-210 platform only

### Built for the Cloud

- Native migration interfaces to public/private clouds and low-cost NAS
- Local encryption keys for public cloud security

### Policy-Based Cloud Migration

- Last access
- Last modified
- User ID
- Group
- File size
- File extensions
- Directory
- Wildcards
- Regular expression
- Other

### Agency Approvals

- UL60950
- CSA 60950
- EN60950
- FCC /ICES-003
- CE — EMC Directive 2004/108EC

### Non-Disruptive Modes

- Out-of-band (simulation)
- In-line (passive)
- In-line (active)

InfiniteIO makes hybrid cloud storage simple and fast, ensuring information flows to people and applications that need it most, without disruption. Based in Austin, Texas, InfiniteIO provides real-time insights to analyze, optimize and scale capacity and performance throughout the hybrid cloud for global enterprises, research organizations and media companies. InfiniteIO offers customers and partners the fastest way to implement a hybrid cloud strategy and maximize the value of cloud storage. Learn more at www.infinite.io, @infiniteio and LinkedIn.

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