



www.infinite.io • @infiniteio

Make your existing storage Outperform an all-flash NAS system

Infinite io

The world's first network based metadata accelerator processes metadata requests directly in the network off-loading storage systems

As data growth rates have exploded storage systems have struggled to maintain consistent performance and have often lagged behind the performance gains made in servers and other systems. The traditional approach to increasing storage performance has been to fork-lift upgrade to a faster and typically more expensive new system. Infinite io has developed a game changing new solution that offers an alternative to the fork-lift upgrade. In most cases, with metadata processing off-loaded, existing systems can be augmented with infinite io to outperform even the fastest all-flash NAS systems at a fraction of the cost.

The key to unlocking storage performance lies in metadata.

It is common to have as much as ninety percent of all transactions flowing in and out of a storage system to be metadata requests. Storage systems are not very efficient at responding to metadata requests because they were designed to move data in and out, not respond to queries about the state of data. As metadata activity increases storage performance plummets.

Infinite io takes a networking approach to solving the storage performance problem by serving metadata directly out of memory on the network at microsecond response rates that storage systems simply cannot match due to their underlying file systems. Overall performance is usually increase by a factor of 5x-100x depending on the workload and installed NAS systems.

Installing like a network switch in front of existing storage systems, the unique architecture uses deep packet inspection to keep in-memory copies of all metadata current. This approach is totally transparent to all installed systems and requires no changes to applications, servers, and installed storage systems.

Infinite io can help if:

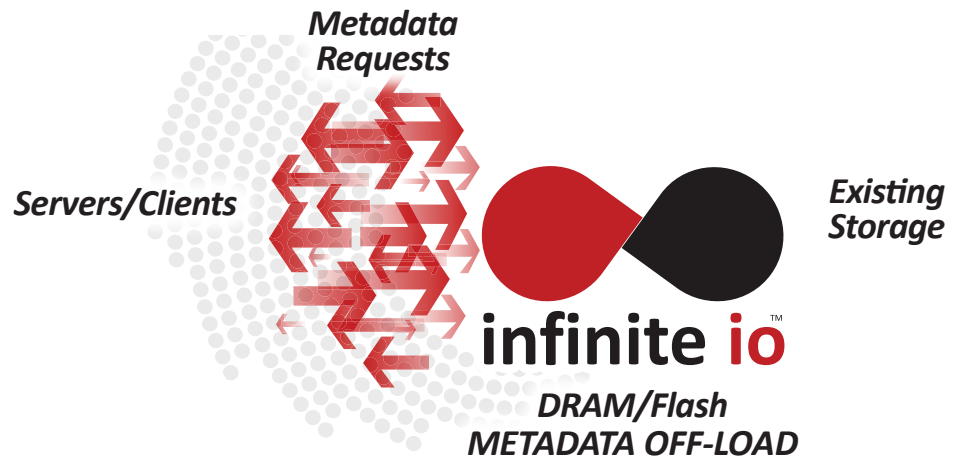
- You need maximum performance – exceeding an all-flash NAS system
- Cost constraints limit your ability to upgrade to all-flash NAS systems
- You want to avoid the significant downtime associated with a fork-lift upgrade
- You'd like to extend the life of existing NAS systems

As data growth rates have exploded, metadata requests being made to storage systems have skyrocketed. It is common to have as much as ninety percent of all transactions flowing in and out of a storage system to be metadata requests, massively degrading storage performance.

Infinite io moves metadata processing into the network where it can be processed at rates even the fastest all-flash NAS systems can't achieve.

After installing infinite io, overall storage performance increases dramatically making existing storage as fast or faster than an all-flash NAS system at a fraction of the cost.

Continued ...



“

With infinite io installed, we saw a significant reduction in workflow processing times.

Rhian Resnick
 Director of Middleware and HPC,
 Florida Atlantic University

After the installation of infinite io, our users experienced a significant improvement in application performance.

Brett Morrow
 Senior Systems and
 Storage Analyst for AcelInfo at the
 National Severe Storms Lab

”

Extreme Performance

Infinite io's unique approach seamlessly integrates into existing environments and turbo charges storage to performance levels that rival the fastest all-flash NAS systems.

Benefits:

- Get all-flash performance from you existing NAS systems
- Requires ZERO workflow changes
- Avoid fork-lift upgrades and the associated downtime
- Keep existing storage tools and processes intact
- Get a view into traffic patterns with metadata analytics

Features:

- Ultra high metadata performance: 1,500,000 in a singles node with and average latency of <40 microseconds, 3,000,000 in a 3-node cluster with an average latency of <60 microseconds
- Installs like a network switch and is totally transparent
- Unlike a cache, all metadata remains hot
- Single nodes fail-to-a-wire and clustered nodes provide availability that matches or exceeds NAS systems
- Software upgradeable to a Network-based Storage Controller that provides the ability to transparently migrate inactive data off NAS systems to a low-cost cloud while preserving their always-on and available NAS functionality

ABOUT US

Our mission at infinite io is to provide our customers with the best possible product experience. Our experienced technology teams have a track record of developing market-defining solutions in security and packet inspection, storage networking, network routing and storage systems. Designed to be remotely managed and easily upgradeable, our products proactively self-monitor to make initial configuration and ongoing support a straight-forward and hassle-free experience.

Infinite io has been cited by CRN, Network World, Information Week and Tech Target as a game-changing company engineered to disrupt the world of data storage forever.

8601 Ranch Road 2222, Building I, Suite 250, Austin TX 78730
 512.375.4171 • info@infinite.io • www.infinite.io • [@infiniteio](https://twitter.com/infiniteio)

