

# ClearSky® NAS: Scale Up On-Demand in the Hybrid Cloud

## Primary Storage, Offsite Backup, and DR as a Fully-Managed Service

- » The performance of local flash arrays with the elasticity and economy of the cloud
- » Access all your file workloads from anywhere
- » Scale up or down on demand, paying only for what you use
- » Built-in protection—no separate backup or disaster recovery infrastructure needed
- » Enterprise-grade security and availability, backed by SLAs

### The NAS Treadmill: Does this Sound Familiar?

Organizations in many industries struggle to store thousands or millions of massive files—video, audio, medical images and records, CAD/CAM drawings, and more. As storage requirements continue to soar, traditional NAS solutions based on fragmented architectures can't keep up. Separate systems for primary storage, backup, and disaster recovery all have to be provisioned, secured, scaled, and maintained. It's a model that's become wasteful and inefficient—and with today's storage and business demands, simply untenable.

### A Better Way: On-demand NAS without Limits from ClearSky

ClearSky provides a fundamentally different NAS architecture to deliver on-demand primary storage, offsite backup, and DR as a complete, fully managed service. Rather than wrestling with multiple pools of expensive storage that need to be regularly upgraded and expanded, simply plug into the ClearSky service to access all your file workloads on demand.

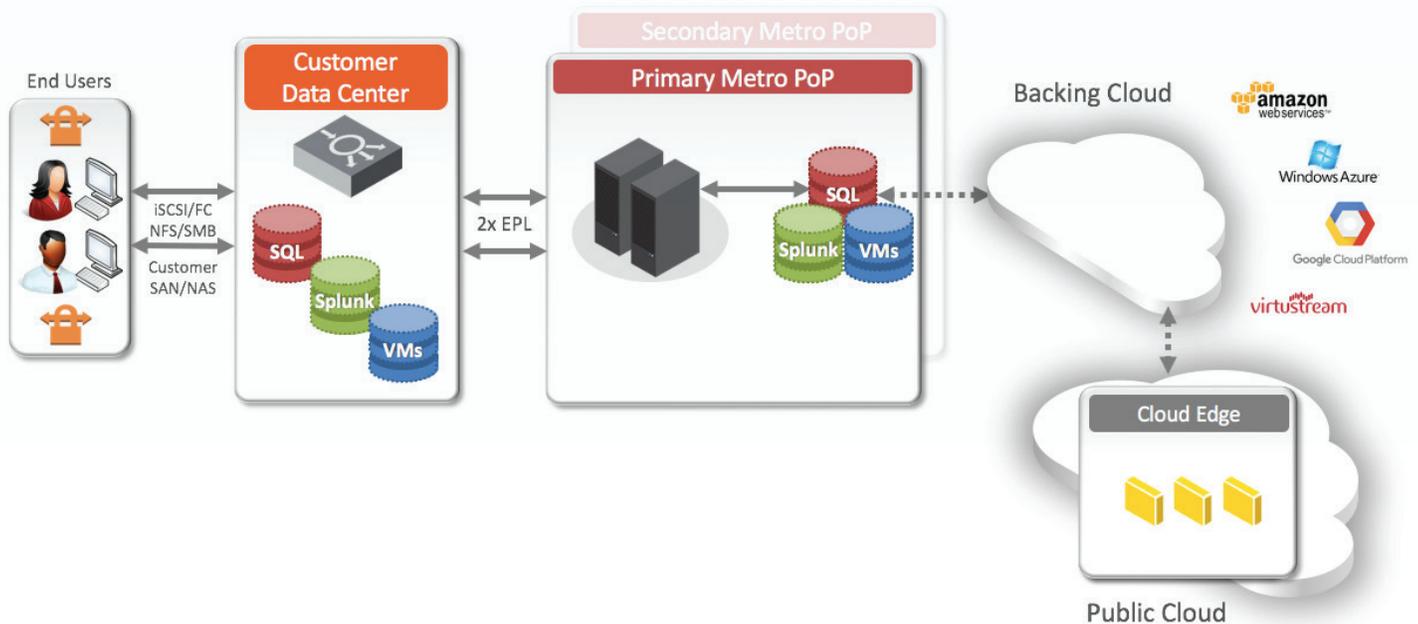
### Flash Performance—at the Edge and in the Cloud

The ClearSky architecture solves a major problem for enterprise IT: how to automatically and cost-effectively provision data when only a small portion is accessed regularly, that hot data is changing constantly, and overall data volumes are growing relentlessly. ClearSky's patented Smart Tiered Caching™ technology meets the challenge head on by automatically categorizing data and caching it in the layer that best matches access requirements:

- » Hot data is cached next to your applications in an edge appliance managed by ClearSky (the only device installed onsite, which greatly simplifies provisioning)
- » Warm data is cached in a metro Point of Presence (PoP) within 120 miles of your data center
- » **All data**, including cold/archival data, is stored in multiple locations in the Backing Cloud and is accessible on demand

### Built-in Data Protection

With ClearSky, your data is protected automatically, and you can restore or recover it anywhere. All data is stored offsite in a combination of the PoP and the Backing Cloud as part of the write process, eliminating the need to back it up later. Each successive cache layer is a superset of the previous layer so if a device or even an entire cache is lost, your data is always available in the next layer. Thus there's no need for separate, costly infrastructure for backup and DR, no need for backup, DR and replication licenses and no time-consuming management of disparate systems. All those headaches and costs disappear.



The ClearSky NAS Architecture Combines Flash Performance as Needed, Cloud Elasticity, and Built-in Backups and Disaster Protection

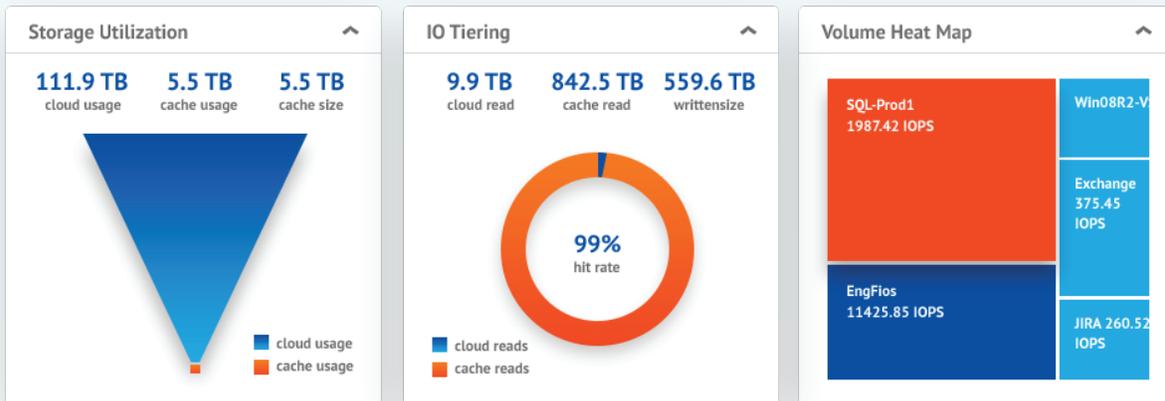
## Enterprise-Grade Security

Industry-leading security capabilities and best practices ensure that your data is always isolated and always protected. All data is encrypted when it enters the ClearSky service inside the customer's data center, and remains encrypted throughout the ClearSky service, in transit and at rest. Encryption keys are always under the customer's control, and never knowable or accessible to ClearSky. Dedicated private networks avoid security issues associated with transporting data through the public internet. Additional security measures provide multiple layers of protection in the PoPs and Backing Cloud. The ClearSky service is also GDPR and SOC 2 compliant.

## Guaranteed High Availability

Resilience and high availability are inherent to the ClearSky architecture. ClearSky's dedicated, high-speed network connections avoid the performance and reliability issues associated with the public internet. By leveraging the architecture and building redundancy into all cache layers and network paths, ClearSky is able to provide an enterprise-class service with guaranteed high availability (99.999%), backed by service level agreements (SLAs).

ClearSky Web Dashboard Provides Visibility and Control



## Architecture Drives down TCO

The total cost of ownership (TCO) using the ClearSky NAS service is a fraction of the cost of conventional NAS solutions, while making far more effective use of storage and network resources. Rather than a disparate assortment of sub-systems and technologies that you have to pay for and manage, there's just a single entry point with ClearSky which covers primary, offsite backup and DR and delivers one single, durable copy of data to the customer. And, with ClearSky's elastic, consumption-based model, you can scale up or down on demand, paying only for the capacity you use.

## NAS without Limits: On-Demand File Storage with Built-In Protection

ClearSky's complete, fully-managed service meets the enterprise storage challenge head on, providing dramatic improvements for end users, IT departments, and people who make the budgets. You no longer have to buy, maintain, and scale expensive equipment or make difficult decisions about where to store file workloads as volumes grow and usage requirements evolve. Instead, simply plug into ClearSky to access your data when and where you need it, with the security, unlimited scalability, and performance your business depends on.

## Simplified Management

ClearSky's fully-managed NAS service eliminates the time consuming burden of managing separate storage systems and devices. Instead, the easy-to-use web dashboard provides centralized visibility and simplified control across the ClearSky service:

- » Provision and scale your storage on-demand
- » Set policies for role-based access and storage allocation
- » Manage snapshots, restores, and disaster recovery
- » View capacity utilization, performance, latency, and other metrics

## ClearSky NAS Features

- ✓ High performance with minimal footprint
- ✓ Supports Windows and Linux environments using SMB/CIFS and NFS protocols
- ✓ Integrates with Microsoft Active Directory, Kerberos, and other authentication services
- ✓ Supports user and group policies for storage allocation
- ✓ Integrated cloud-based backups and disaster recovery
- ✓ Unlimited scale through relationships with leading cloud providers
- ✓ End-to-end encryption, the customer controls the keys
- ✓ Thin-provisioned (pay only for what you use)

**Get off the NAS treadmill—plug into the ClearSky service.**