SoftNAS Cloud Essentials

Price/performance optimized secondary storage for cloud backup, disaster recovery, and archive

What is SoftNAS Cloud Essentials?

SoftNAS Cloud® Essentials provides files services for object storage, lowering the overall storage cost of secondary data for cloud backup, disaster recovery and archive repositories. WIth SoftNAS patent-pending ObjFast™ technology, SoftNAS Cloud Essentials accelerates I/O performance to object storage backends up to 400% faster than before. SoftNAS Cloud Essentials leverages the cost-effectiveness and scalability of cloud object storage as a datastore while presenting applications with standard NAS and SAN protocols—on-premises, public cloud, or hybrid cloud—without modifying existing applications.

Simple Cloud NFS/CIFS File Services

With SoftNAS Cloud Essentials, the customer can establish an environment in the public cloud to frontend native cloud object storage to store customer data. Customers can then access the SoftNAS Cloud Essentials environment via standard NAS & SAN protocols, so no changes are needed to the customer's systems or applications. Access to the cloud storage environment remains the same as that for an on-premises NAS or SAN.
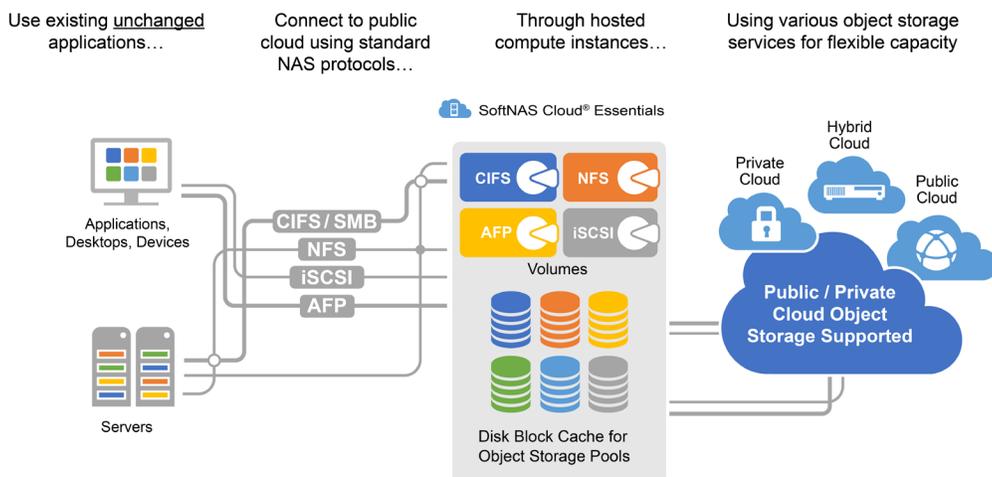
Seamless Integration with Object Storage

SoftNAS Cloud Essentials seamlessly integrates with object storage from popular storage providers like Amazon Web Services, Microsoft Azure, NetApp, Hitachi Data Systems, CleverSafe, Caringo, Cloudian, and other object storage compatible with S3.

■ CHALLENGES

- Do you have large amounts of secondary data requiring ready access?

- How can you integrate object storage with your existing IT systems without modifying your applications?

- How can you best leverage your existing investments and IT resources?

- How do you improve your object storage's file I/O performance?

- Do you want seamless integration with AWS S3, Microsoft Azure Blob and other S3-compatible object storage vendors?

- Do you need enterprise application file services for object storage?

SoftNAS Cloud Essentials provides software-defined file services for low cost object storage for large amounts of infrequently accessed, secondary data.

Use existing _unchanged_ applications…   Connect to public cloud using standard NAS protocols…   Through hosted compute instances…   Using various object storage services for flexible capacity

■ FEATURES

Veeam Full Backup Tested and Optimized
Provides a tested and optimized solution for Veeam full synthetic backups and for tape-to-cloud archival use cases.

High Performance
With SoftNAS ObjFast™ technology, SoftNAS Cloud Essentials accelerates I/O performance for backend object storage reads, writes, deletes, and edits—approaching native block storage performance levels.

Multi-Protocol Support
File access to backend object storage via NFS, CIFS/SMB with Active Directory, AFP (Apple File Protocol) and iSCSI block services.

In-line Deduplication and Compression
Built-in deduplication and compression provide storage savings up to 43% (varies by data type and workload—with some data sets experiencing even greater storage savings) allowing for a more efficient and cost effective use of object storage.

Highly Available
Achieve better uptime by combining SoftNAS Cloud Essentials with the durability and resiliency provided by public cloud object storage and the optional SoftNAS Dual Controller HA (DCHA) add-on.

Snapshots and Rollbacks
Protecting and recovering your data is easy by creating scheduled or manual snapshots to rollback data to a point-in-time—perfect for combating human error, technical glitches, malware and ransomware.

Encryption
Data is encrypted in transit and at rest. Only customers possess their encryption keys.

Access Control
Integration with Microsoft Active Directory, Azure Active Directory and LDAP, which provides secure access to customer data.

Storage Elasticity
Grow and shrink your storage requirements as-needed with thin-provisioning, storage pooling, and ondemand compute and storage cloud services. Pay for what you use and grow as you need.

■ BENEFITS

Lower Cost Storage for Secondary Data
Instead of using expensive on-premises equipment to store secondary or infrequently accessed data, SoftNAS Cloud Essentials is used with on-premises or public cloud object storage backends to lower the cost of backup images, disaster recovery and archival or workloads that do not require high performance block storage.

Ideal Cloud Backup Repository with Veeam
SoftNAS Cloud Essentials, when combined with backup software like Veeam, provides a simple, low-cost way for customers to store their Veeam backups in public cloud backend object storage.

Reduce Disaster Recovery Datacenter Costs
Disaster recovery datacenter backups and data copies may sit idle for months or years, occupying expensive real estate and incurring high costs for hardware, software, power and cooling. Move your disaster recovery data to the cloud to reduce costs while gaining dynamic scaling and simplifying access for your applications and end users.

Store Secondary Data, no Application Re-engineering
Backup and archive software and other third-party applications that create secondary data usually store data as files and do not support cloud native storage. Keep existing processes and software while moving data files to the cloud for offsite protection.

Hybrid Cloud Enabled
SoftNAS Cloud Essentials provides file services across any combination of public, private and hybrid clouds.

Highly Durable
SoftNAS Cloud Essentials provides compression, in-line deduplication, storage snapshots, writable snapshot clones and thin provisioning.

Rich Data Protection and Efficiency
SoftNAS Cloud Essentials features, combined with the inherent durability and resiliency of public cloud object storage backends, provide greater uptime than object storage alone.

■ USE CASES

Backup Repository
Due to its high performance, ease of data accessibility and data storage efficiency, SoftNAS Cloud Essentials is an ideal solution for the storage of backup images in public cloud object storage backends.

Disaster Recovery Repository
SoftNAS Cloud Essentials provides a cost-effective alternative to expensive disaster recovery datacenter storage and a high performance alternative to offsite tape solutions—all with ease of data access using existing applications.

Archive Repository
For medical, legal, and other regulated industry segments that must retain records for a specified amount of time for compliance or other reasons, SoftNAS Cloud Essentials provides a viable alternative for storing and managing secondary data. Additionally, SoftNAS Cloud Essentials provides easy access to archived data that needs periodic user access, replacing the need for slow, risky and inefficient tape solutions.

File Server Consolidation
Use SoftNAS Cloud Essentials to centralize onpremises NAS, SAN or file servers in the public cloud, while simplifying management, increasing flexibility, and reducing costs for file storage. File Services for Object Storage SoftNAS Cloud Essentials provides file access to backend object storage via NFS, CIFS/SMB with Active Directory, AFP (Apple File Protocol) and iSCSI, so applications can use object storage without the need for additional hardware, modifications to the application or changing workflows.

■ WHAT'S NEXT?

Learn more: softnas.com/essentials
Contact us: softnas.com/contact

SoftNAS®

**To learn how we can customize a solution
to meet your company's needs, visit SoftNAS.com**

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