

Enterprise File Services on Azure

Nasuni – “NAS Unified”

Nasuni® provides the most scalable, high performance file services platform for the new era of cloud storage, enabling enterprises to better store, protect, access and manage unstructured data across all global locations.

Powered by Nasuni UniFS®, the world’s first cloud-native global file system, the Nasuni hybrid cloud platform and Azure blob storage are the modern alternative to legacy Network Attached Storage (NAS), distributed file systems, backup software, archive solutions, and DR infrastructure.

Together, Nasuni and Azure offer a more scalable, cost-effective solution for enterprises with global file sharing and collaboration needs, offering clear benefits to IT and line of business stakeholders alike.

For IT	For Business
<ul style="list-style-type: none"> • Unlimited primary or archive file storage • End of separate backup & DR tools and processes • End of forklift upgrades • 60% reduction in file infrastructure costs • End of “shadow IT” file sync and share silos • End of NAS replication and remote access challenges • Datacenter space recovery 	<ul style="list-style-type: none"> • Increased efficiency and collaboration • Enhanced ability to support global growth • Streamlined mergers and acquisitions (M&A) • Compliance with cloud-first and security initiatives • Greater user mobility • Consolidation and cost reduction • Improved ability to analyze and leverage long-term “cool” data • Accelerated Internet of Things (IoT) initiatives

The Enterprise File Storage Challenge

Unstructured data files are the fastest growing type of data. Every enterprise is struggling to store and manage creative content; video; audio; industry-specific application files such as Product Lifecycle Management (PLM), GIS, and CAD/CAM; IoT machine-generated files; and more.

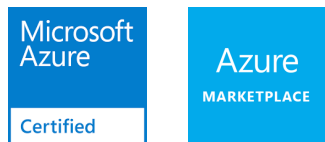
Meeting this challenge with traditional storage solutions no longer makes business sense. Using traditional Network Attached Storage (NAS) or Storage Area Network (SAN) arrays; relying on legacy backup solutions for data protection; deploying WAN acceleration and replication for file sharing and collaboration; and building separate Disaster Recovery (DR) infrastructures is expensive, time consuming and inflexible.

Adding file sync and share products to the mix adds more cost and complexity, while making it impossible for IT to enforce security policies.

The Complete NAS, Data Protection, and Global File Access Solution

Nasuni provides a unified file services platform that exceeds enterprise requirements for scalable NAS, advanced data protection, global file access, and simple management.

Nasuni transforms enterprise file storage by unlocking the full potential of the “new disk” – Azure object storage. With its virtually unlimited capacity, durability, and geo-redundancy, Azure is the foundation for Nasuni’s revolutionary hybrid cloud architecture built on the first cloud-native global file system, Nasuni UniFS.







Store

Unlimited Capacity
Local Performance
Local Security



Protect

Continuous Versioning
Instant Recovery
Fast DR Anywhere



Access

Global Volume Management
Global File Lock
Mobile Access



Manage

Single Pane of Glass
Volume & Appliance Controls
Remote, Scriptable Provisioning



First Cloud-Native Global File System | Infinitely Scalable



Multiple Use Cases

Nasuni and Azure address a wide range of enterprise file services use cases with one integrated solution.

Use Case	Description
Primary NAS or SAN Replacement	Replace the costly, on-premises storage infrastructure needed to support project directories, group shares, and home drives with a cloud-scale solution that never requires forklift upgrades. Eliminate expensive replication technologies (e.g. MPLS), duplicate NAS/SAN infrastructure, and secondary sites by leveraging the geo-redundancy of Azure and Nasuni's stateless Edge Appliances, which can be instantiated in 15 minutes wherever there is power and Internet connectivity. Eliminate the cost of separate file backup software, hardware, and administrative overhead and improve recovery points and times with Nasuni's continuous file versioning.
Cross-Site File Collaboration	Streamline creative content, engineering, and design workflows by providing global access to files from any location. Coordinate file changes from multiple sites with Nasuni global volume management. Prevent simultaneous edits from causing data loss with Nasuni global file lock.
Active Archive	Store infrequently accessed data on Azure Cool storage to reduce costs. Maintain fast access to archived data by preserving the original file system structure. Unlock the value of older data by automatically bringing it back to Nasuni Edge Appliances, without the delays of legacy archive solutions.
Analytics	Store, protect, and access the millions of files generated by new Internet-connected (IoT) machines. Manipulate large subsets of unstructured data for context-driven analysis without any limits on file size, total file capacity, total number of files, or physical distance.

Nasuni Solution Components

The Nasuni platform seamlessly integrates cloud services, Web-based management, mobile device applications, on-premises software, and optional on-premises hardware into a single, easy-to-manage hybrid cloud solution.

Nasuni UniFS - The heart of the Nasuni platform, UniFS is a cloud-native file system that becomes an authoritative global namespace for the entire enterprise, storing "gold copies" of all files, file versions, and metadata in Azure blob storage.

Nasuni Edge Appliances – These on-premises appliances, which can be virtual (supplied by customers using existing infrastructure) or physical (supplied by Nasuni in various hardware configurations), transmit all files instantly to Azure while caching active files locally for secure, high performance access. The appliances are stateless; any number can be deployed to meet business requirements, and multiple appliances can mount the same UniFS volumes. They present shares via standard NAS protocols (CIFS, NFS) and integrate with Active Directory to leverage existing authentication and access policies.

Nasuni Management Console – This service provides single pane of glass management for all file storage through a standard web browser. It controls and monitors all Edge Appliances, file shares, and protocols, with role-based access control for large IT organizations that require delegated administration.

Nasuni Mobile – Consisting of iOS and Android apps, desktop apps for Windows and MacOS, and a web browser interface, Nasuni Mobile ensure files are available anytime, anywhere, through any device.

Nasuni Operations Center – This cloud service monitors Azure object storage and Nasuni Edge Appliances to ensure availability. It also captures metrics to optimize performance, orchestrates global volume manager and global file lock for conflict-free file collaboration, and tracks and reports on Nasuni accounts and licensing. The service is monitored by Nasuni's world-class support team to identify and resolve issues before they impact production environments.

Learn More

Email microsoft@nasuni.com, visit www.nasuni.com, or contact your local Azure Global Black Belt or Microsoft salesperson to schedule a Microsoft Executive Briefing Center (EBC) visit or presentation on Nasuni and Azure.