

Nasuni and Microsoft for the Energy Industry

The operational file layer for modern energy operations

Energy companies operate in highly distributed, remote, and often hostile environments, where access to critical data directly impacts exploration, production, and timeto-energy. Increasing volatility across geopolitical, economic, and environmental conditions adds further pressure to operate efficiently and securely at global scale.

At the same time, organizations rely on massive volumes of seismic data, engineering models, and geospatial files that must be accessed, shared, and protected across regions, partners, and field locations. These datasets can take months or years to acquire and process, yet much of that time is lost due to fragmented infrastructure and limited data accessibility.

As AI and advanced analytics become essential to exploration and production, the challenge intensifies. AI initiatives depend on fast, consistent, and governed access to file data — but legacy systems make it difficult to deliver the performance, scale, and security required.

Key barriers include:

- **Limited data access** across remote and offshore environments
- **Data sovereignty** requirements restricting where data can reside
- **Legacy storage systems** that slow access to critical datasets
- **Security risks**, including ransomware and unauthorized access

/ NASUNI AND THE OSDU FORUM

With the OSDU Forum and OSDU Data Platform gaining momentum, Nasuni's energy customers (many of whom are leading members of OSDU) are excited by the impact that platform is providing across the industry. Nasuni has joined more than 250+ members, including Microsoft and IBM, to build a vibrant open ecosystem to unlock the value of seismic data to make smarter decisions faster.

At-a-glance benefits

- Built-in ransomware resilience across all sites
- Real-time access to seismic and engineering data
- High-performance data access at remote and offshore locations
- Reduced infrastructure cost and complexity
- AI-ready seismic and operational data

Energy use cases

- Global access to seismic datasets for exploration and AI workflows
- Real-time collaboration across geoscience and engineering teams
- Delivering fast, local data access in remote and offshore environments

"We had been working for five or six years to bring all of Western Europe into the Azure cloud. The challenge was bringing the file server also to the cloud. Finally we solved it with Nasuni."

MALCOLM BROWN
Global IT Manager, Geoactive

The Unstructured Data Platform for Energy Teams and AI

Nasuni is the unstructured data platform for energy companies, powering the operational file layer where exploration, production, and engineering work happens. It enables organizations to unify seismic, CAD, and operational data in highly durable Microsoft Azure Blog storage, at a fraction of the cost of traditional infrastructure.

It provides a cloud-native replacement for legacy NAS and file server environments, with built-in capabilities for file storage, backup, ransomware protection, and high-performance access across global operations and remote field locations.

Complex environments, including offshore rigs, joint ventures, and multi-region operations, are simplified by enabling teams to securely access and share data within a single global file system while maintaining data sovereignty and compliance.

The result is a scalable, modern foundation that accelerates energy workflows, reduces operational complexity, and ensures data is secure, accessible, and ready for AI-driven exploration and analytics.

/ REDUCED COSTS

By eliminating legacy on-premises infrastructure needed for file servers, backup, and DR, Nasuni can provide up to 70% or more savings over traditional architectures and reduce data center footprint by up to 90%. Using cost-effective cloud object storage instead of tiering to the cloud, Nasuni costs significantly less than other cloud storage solutions.

/ CONSOLIDATED FILE DATA

Nasuni provides the largest energy firms with a single, global file system accessible to one or hundreds of physical sites. Employees of all levels can access the system directly. Data can be accessed from regional, Microsoft Azure Blob storage instead of multiple, on-premises file servers or NAS devices.

/ STREAMLINED DATA MANAGEMENT

Data managers spend 40% of their time managing data and storage capacity, which often requires moving massive files from one storage container to another due to volume limits. Nasuni streamlines this workflow because there are no volume limits, and the need to move large files around is eliminated.

/ REMOTE DATA ACCESS

Nasuni provides access and performance at remote exploration sites and drilling fields limited to Line of Sight (LoS) and 4GLTE connections using lightweight edge caching appliances. This allows demanding geo-seismic applications for seismic interpretation, post-processed data management, and storage of large files to be accessed anywhere in the world.

/ BUILT-IN DATA RESILIENCE

Nasuni Continuous File Versioning® enables files to be restored rapidly from the cloud to virtually any point in time, significantly improving RTOs and RPOs. Ransomware edge detection and mitigation stops cyberattacks quickly. Nasuni can recover a million files in less than a minute (even from a ransomware attack), which is impossible with traditional backup.

/ OPTIMIZED CLOUD VDI

Azure Virtual Desktop offers an alternative that no longer requires geoscientists to physically sit at high-powered workstations to analyze and model seismic data. Nasuni is essential to multi-region VDI deployments because it synchronizes user profiles and file data between VDI sites and caches them in the same data centers as the desktops to provide optimal file access.

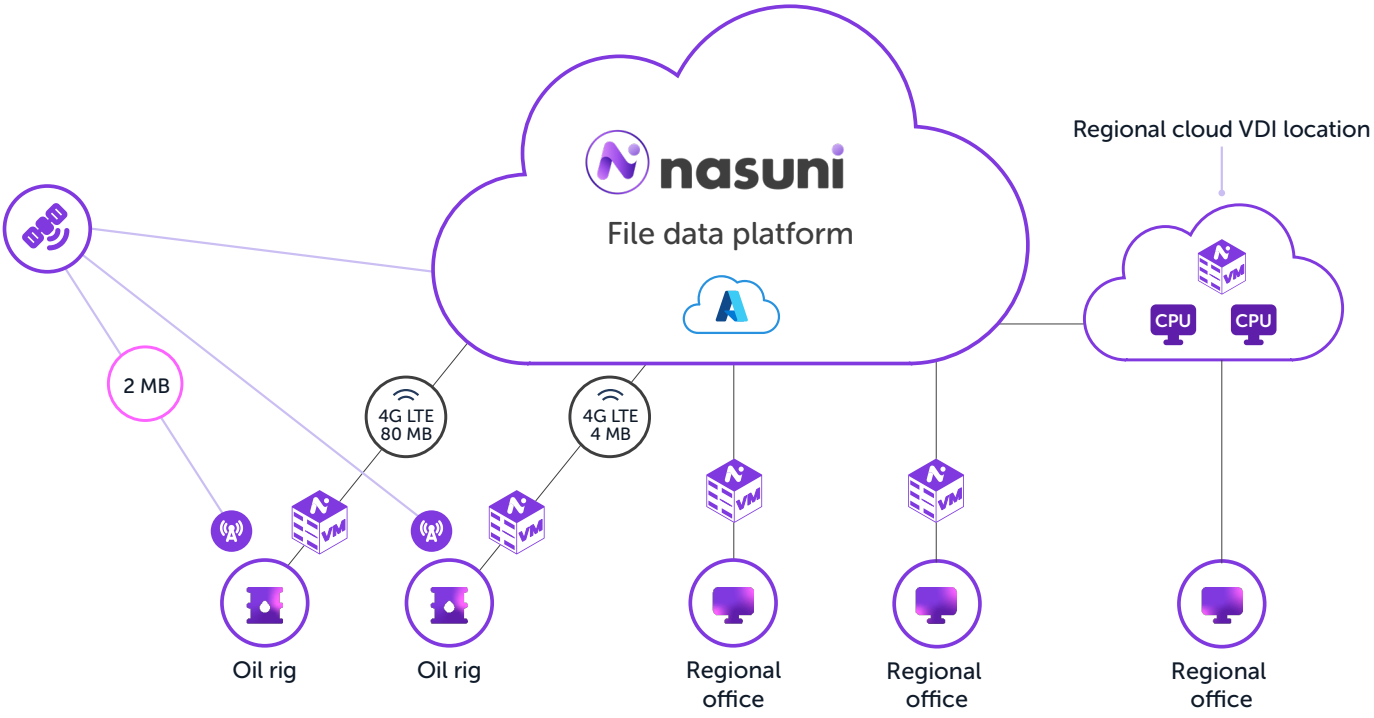
/ AI INNOVATION ON AZURE

Nasuni ensures seismic and operational data is unified, governed, and globally accessible, so energy providers can activate AI services by Microsoft Azure.. With built-in permissions, versioning, and global access, the same data foundation that powers geoscientists also enables AI to operate securely and at scale.

"Penspen's shift to Nasuni **delivered real value** as we transitioned our entire global workforce to a working-from-home model without having to worry about disrupting project delivery, global collaboration or productivity."

MICHAEL NORMAN, Infrastructure Engineer, Penspen

/ SEISMIC/GEOSPATIAL DATA EXAMPLE



Learn More

To learn more about how Nasuni is helping the energy industry improve "Time to Oil" visit www.nasuni.com/industries/oil-and-gas

Microsoft Solutions Partner

Azure
Certified software
Nasuni File Data Platform

nasuni

Nasuni is the file data foundation for large enterprises where files are mission-critical for both people and AI. The work that drives modern organizations lives in files, the most operationally critical segment of unstructured data, including designs, project documentation, financial and compliance records, media assets, and the countless versions that evolve across distributed teams.

We help our customers manage, protect, and activate that content so IT can continuously reduce cost and risk, while teams and the AI that supports them become more productive through fast, governed access to the right information when and where they need it.

Unlike tools that focus only on data storage, backup, collaboration, or analytics, Nasuni operates at the source of truth for enterprise files, providing the core infrastructure that ensures permissions preserves version history, maintains file relationships, and keeps mission-critical files live, synchronized, and ready for action, serving as the foundation enterprise work depends on.

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