Seismic data in the cloud

The OSDU forum mission

With over 240+ members, the Open Surface Data Universe (OSDU) Forum is an industry forum that enables the energy industry to collaborate on the development of transformational technology to support the world's changing and evolving energy needs. The purpose is to provide a vendor-neutral environment for the development of open standards and utilize the global reach of The Open Group to build awareness, recognition, and adoption.

Why Nasuni joined the OSDU forum

Nasuni has long, proven track record providing cloud file infrastructure for the world's largest, most demanding oil companies.

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. Similarly, the major cloud providers that Nasuni has alliance partnerships with, AWS, Microsoft, Google Cloud, and IBM are all active members helping to evolve the OSDU Data Platform. This platform will offer the Energy industry and its partners a vibrant open ecosystem to unlock the value of data so that smarter decisions are made faster.

> Energy companies face two defining challenges, managing cash flow in the face of constantly fluctuating oil prices and managing the transition over the coming decades to a lower-carbon environment. The first, foundational step to open the door to greater progress is a **common data platform design that underpins how the energy industry works with its data.**
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> **Open Group**, OSDU Forum[1]

OSDU data platform benefits align with Nasuni

Once a firm's data files are consolidated in a single, global file system, tremendous benefits are unlocked that cannot be achieved by other means. As stated above, the OSDU Platform will evolve and mature to reduce costs, breaks down data silos, enable innovation, and brings data together in one location.

Reduce costs

By eliminating the legacy on-premises infrastructure needed for file servers, backup, and DR, Nasuni provides up to 50% or more savings over traditional architectures and can reduce file infrastructure footprints by up to 90%. By fully leveraging cost-effective cloud object storage instead of just tiering to the cloud, Nasuni costs significantly less than other cloud storage solutions.

Break down data silos

A fundamental requirement to get the most out of the OSDU Forum is to reduce silos of data whether that's in one or one hundred physically separated locations. Nasuni provides this today with a single, global file system for 1 to 100's of physical sites in cloud file storage, where employees of all levels can access directly. By using the cloud and object storage, Nasuni customers overcome latency barriers that have historically made it prohibitive to access extremely large data sets in multiple locations.

Enable innovation

Once file data has collectively migrated to the cloud, Energy firms can harness the latest AI/ML cloud services provided by AWS, Microsoft, or Google Cloud for innovative data analysis. While the industry at large is still in the early stages of understanding the potential of AI/ML, an exciting new era of being able to access petabytes of seismic data in a single, global repository is here.

Bring together data into one location

Nasuni customers' data managers spend 40% of their time alone on just managing the data and storage capacity, which often requires moving massive files from one storage container to another due to volume limits. Nasuni has no volume limits and eliminates the need to move large volumes of data around, which translates into huge efficiency savings for an IT team. The OSDU Forum also wants to create more standard file formats that will even further help reduce manual and lengthy file translations between systems.
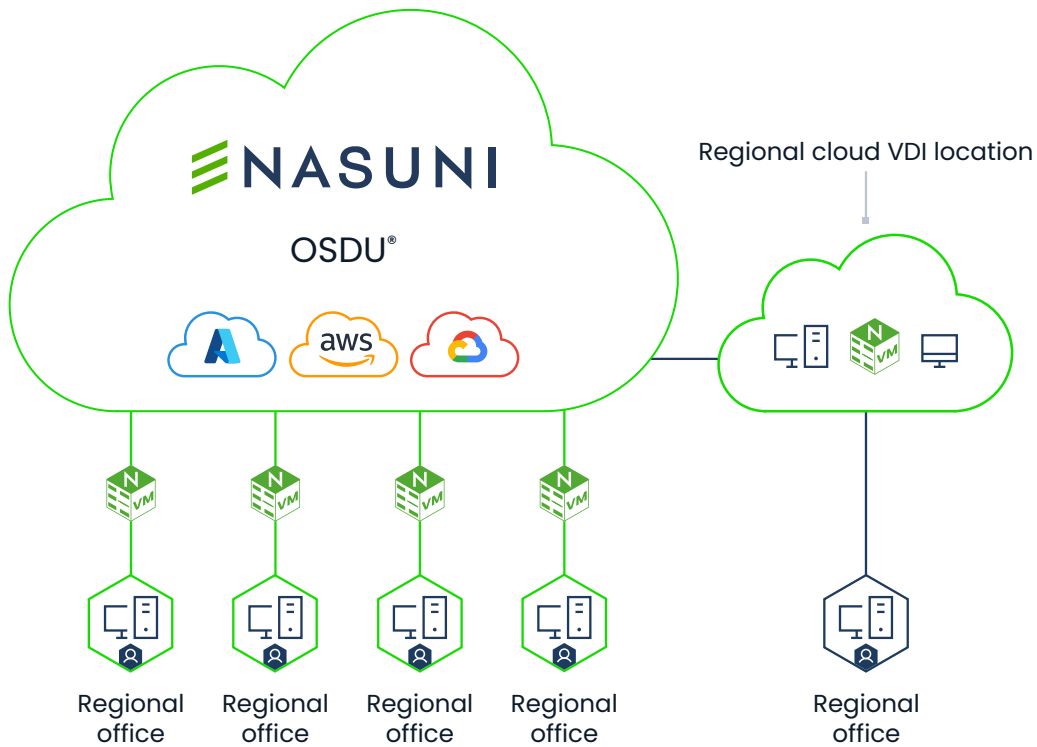
Data science performance

Nasuni ensures required performance at the edge for demanding geo seismic applications for seismic interpretation, post-processed data management, and storage of large files, regardless of where they are located.

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> Data that is easy to find, easy to use, and easy to trust will help open the doors to larger opportunities to improve the way we work. The industry must reduce finding and lifting costs to remain competitive in this environment. The OSDU Data Platform reduces costs, breaks down data silos, enables innovation and brings data together in one location.
>
> **Open Group**, OSDU Forum[1]

Seismic/geospatial data example:

LEARN MORE

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

Source
[1] Open Group, OSDU Forum, https://osduforum.org/about-us/who-we-are

Nasuni is a scalable data platform for enterprises facing an explosion of unstructured data in an AI world, eliminating the choice between expensive tinkering or an overwhelming transformation of your entire data infrastructure.

The Nasuni File Data Platform delivers effortless scale in hybrid cloud environments, enables control at the network edge, and meets the modern enterprise expectation for protected, insight- and AI-ready data. It simplifies file data management while increasing access and performance.

Consolidate data, cut costs, and empower users – all while transforming your data from obstacle into opportunity.