

## Solution Brief

# Nasuni EnterpriseFile Services for Nutanix

Hyperefficient File Storage, Access and Protection

## Introduction

As companies strive to make their data centers more efficient, scalable and compact, Nutanix effectively merges compute, storage and hypervisors into a single high-performance system. Organizations can easily scale up in small, efficient increments, split data across multiple nodes to protect against the failure of any one box and utilize cloud bursting when necessary. With Nutanix, high-performance storage, compute and hypervisors all fall under one centrally managed solution.

An increasing number of enterprises are also integrating Nutanix with cloud storage to address another critical business concern: the steady growth in the volume and size of files. Nasuni, when combined with Nutanix offers a resilient and efficient solution to file growth.

## Optimizing File Storage

When companies adopt Nutanix, they no longer need separate servers to run compute and storage-related operations. The hyperconverged architecture wraps everything into one. This is great for applications, computing and serving specific files that are in high demand, but it can lead to capacity problems when it is used to store general unstructured file data. Companies that rely entirely on Nutanix solutions for file storage will end up filling their storage with unstructured data that is growing exponentially, out of proportion to the Nutanix solution. All that capacity will be wasted on infrequently accessed files.

## Nutanix and Nasuni

The obvious alternative is to find a way to store those files in a more efficient and cost-effective way – without sacrificing easy access. Furthermore, this solution has to work without hindering the speed of your Nutanix system.

Nasuni is an ideal complement to Nutanix. Nasuni virtual machines naturally run on Nutanix platforms. They make NAS volumes available to other VMs, so integration is simple, and they create an easy way to expand capacity.

Deploying a Nasuni VM on Nutanix links that hardware to a secure and easily accessed cloud storage volume. Inactive files are pushed to the cloud instead of sitting on high-performance hardware. Yet these files remain accessible and available.

Overall, Nasuni VMs extend the life and capacity of Nutanix infrastructure by allowing these systems to focus on the high-performance tasks they were designed to handle. The benefits include:

### Secure, Cost-Effective Scalability

Deploying Nasuni VMs within Nutanix systems links the high-performance hardware to an unlimited, cost-effective and secure pool of storage. Once installed, Nasuni VMs cache active files locally, while infrequently accessed file data stays in the secure cloud, freeing space on high performance local hardware. The Nutanix infrastructure will still have easy access to all those files through each Nasuni VM. The difference is that the file data is stored cost effectively in the cloud. With Nasuni, security is assured because all file data is encrypted with a customer-owned key before it leaves company premises, and neither Nasuni nor the cloud storage provider has access to that key.

### Built-in Protection

The uncontrolled growth of unstructured data brings with it the massive burden of protecting that data, even in Nutanix environments. Backup, recovery, replication and other such features are options, but Nasuni includes built-in protection. Complementing Nutanix with Nasuni VMs will eliminate the need for separate backup. The VMs store a complete history with unlimited versions to the cloud, and our clients benefit from simple self-restores, nearly instant DR, geographic redundancy, and more.

## Sharing Across Sites

While Nutanix solutions do allow some sharing across sites through replication from one data center to another, Nasuni is designed to enable fast access and seamless collaboration between users in different offices, as files appear to reside in the same shared volumes. With Nasuni, IT does not have to manage replication between boxes or deal with the burden of multiple full copies of whole data sets spread across offices. Nasuni VMs ensure maximum storage efficiency regardless of the size of the office, and global file locking extends to all locations, ensuring data integrity and preventing replication conflicts.

## Secure Mobile File Sync and Share

The cloud-centric approach of Nasuni VMs allows for simple and secure mobile access to business files. Nasuni securely provides mobile sync and share access to files under IT control, which Nutanix systems do not deliver on their own. With Nasuni, files can be accessed on mobile devices, through a web interface, shared through links and attachments or downloaded via desktop synchronization.

Whether users are in a coffee shop or at a job site, they can securely open and edit their work, remaining productive regardless of location. Finally, Nasuni Mobile is an integrated solution sharing the same data set and security – data is never copied off into another third-party solution.

## Remote Office Solution

Nutanix provides smaller remote office solutions, but companies may rely on traditional storage at these locations instead. Either way, whether you're running a Nutanix system or traditional hardware, a Nasuni VM delivers more efficient scalability without the significant upfront costs of standard hardware. Your remote offices will enjoy the same file access and security as locations with their own Nutanix data centers, but Nasuni VMs ensure the most efficient use of local hardware and integration with the larger environment.

## Unified File Storage Management

One of the advantages of Nutanix solutions is simplified control of your compute infrastructure. Deploying Nasuni VMs extends that to the management of your unstructured file data. With the Nasuni Management Console, IT can manage file storage, recovery and access at every location through a single pane of glass.

## File Storage Becomes Hyper-Efficient

As companies strive to make their data centers more scalable, efficient and compact through hyperconvergence, they risk filling up capacity with infrequently accessed files and other unstructured data. Nasuni VMs seamlessly integrate Nutanix with secure cloud storage. The combination of Nutanix and Nasuni allows companies to get more out of their high-performance hardware while enhancing data protection and remote office access, improving collaboration and extending secure mobile file sync and share capabilities.

## About Nasuni

Nasuni enables organizations to store, protect, synchronize and collaborate on files across all locations at scale. Nasuni Cloud File Services™, powered by the Nasuni UniFS® global file system, leverages cloud storage to modernize primary NAS and file server storage; archiving; backup; and disaster recovery, while offering transformational new capabilities for multi-site file sharing. By combining the low cost, unlimited capacity, and durability of object storage from leading cloud vendors such as Amazon, Azure, Dell EMC, and IBM, with the high performance, security, and broad application compatibility of traditional file storage, the Nasuni subscription service improves workforce productivity, simplifies IT operations, and reduces IT costs. The world's largest companies in 12 industry sectors rely on Nasuni to maximize the business value of their file data and ensure business continuity.

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### Contact Us

[www.Nasuni.com](http://www.Nasuni.com) | [Sales@Nasuni.com](mailto:Sales@Nasuni.com) | +1.857.444.8500