

# Nutanix Files

Your simple, secure intelligent storage platform

## KEY BENEFITS

This platform provides:

- Simplified Management, Automation, & Availability

This platform is recognized for:

- Scalability
- Security
- Intelligence
- Resiliency
- **Economic Benefits**

## A SINGLE PLATFORM FOR ALL YOUR APPLICATION NEEDS

Nutanix Files is an industry leading, software-defined and scale-out file storage solution designed to address a wide range of applications. It addresses evolving unstructured data storage needs for workloads such as user profile for VDI, home directory and department shares, video and image repository including healthcare PACS imagery (Picture Archive and Communication Systems), surveillance video, manufacturing design, machine data such as log files and many more diverse workloads.

Nutanix Files is an integral part of Nutanix Unified Storage Platform that offers customers the ability to access blocks, files and objects services. With Nutanix Files, customers can reduce data fragmentation and storage sprawl by consolidating various storage silos onto a single platform that can scale out to hundreds of file servers and thousands of shares to meet their growing storage needs.

## BUILDING UPON THE NUTANIX CLOUD PLATFORM : FILES SERVICES

Nutanix Files leverages the Nutanix Cloud Platform architecture to provide file services. It can be deployed as a standalone instance, or distributed scale-out storage or as fully integrated storage service on the Nutanix Cloud Platform for your HCI file storage needs. Nutanix Files is platform agnostic and supports the same hardware platforms as Nutanix Cloud Platform.

Known for its simplicity and ease of use, Nutanix Files can be deployed in just a few clicks on any Nutanix cluster. Each node in the Nutanix cluster contains processors, memory, local storage, and networking resources that can be used to run VMs, containers and storage services like Files.

Local storage devices inside the nodes are virtualized into a unified pool by the Distributed Storage Fabric (DSF) which provides Files and other services with advanced data protection and data reduction capabilities including high availability, compression and erasure-coding.

## TEST DRIVE: TRY NUTANIX FILES

We encourage you to try the Nutanix Unified Storage Platform. By simply registering for a free Test Drive, you can explore Nutanix Files at your own pace. [Get Started Here.](#)

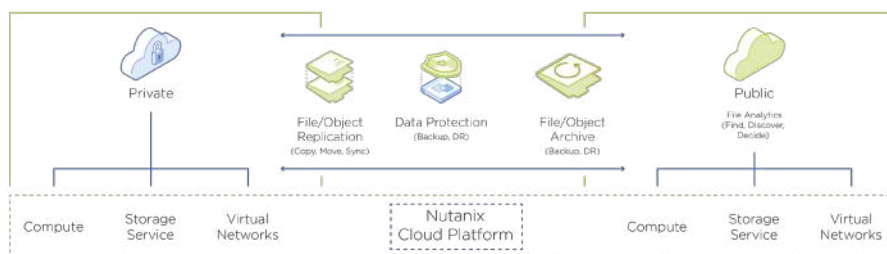
1TiB Free Capacity for existing Nutanix customers, we offer 1TiB of free Nutanix Files capacity per customer to experience simplified data management. You already have everything you need to run Files on your Nutanix cluster with this free capacity.

Files can be easily deployed with a single click and managed across a single or multiple clusters in the core, out at the edge, or in the cloud with zero-touch capabilities. For edge use cases, Nutanix Files supports configurations of a single node letting organizations deploy enterprise grade file storage in the smallest of footprints.

In the core, Nutanix Files is certified for dedicated clusters with as many as 48 physical nodes providing single clusters with 10s of PB of scale. In the cloud, Nutanix Files is supported on Nutanix Clusters on AWS giving customers a way to seamlessly integrate their infrastructure wherever data is created, consumed and stored.

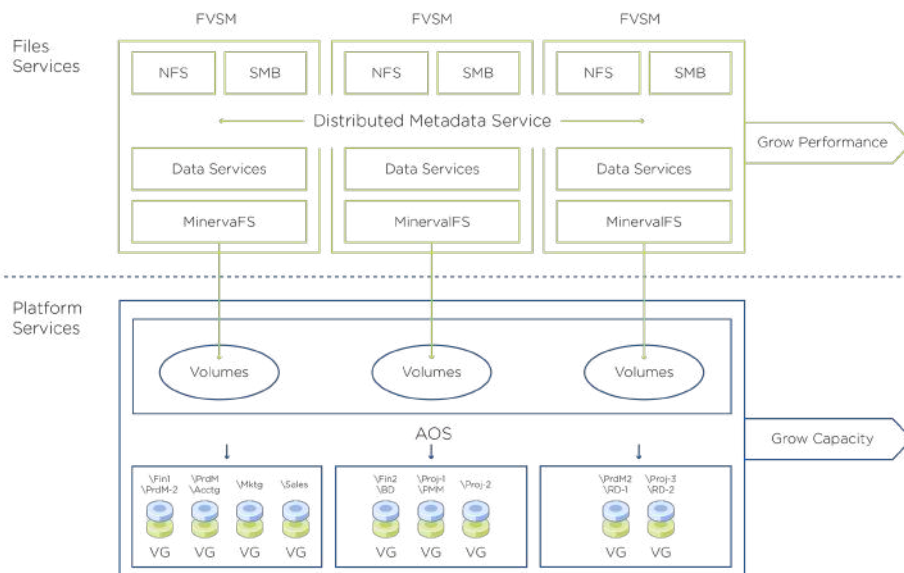
By running on the same Nutanix Infrastructure that hosts the user virtual machines, Nutanix Files helps reduce cost by eliminating the need for dedicated file storage systems while increasing business agility with file shares that can be deployed in minutes.

Nutanix Files offers you the simplicity, intelligence, scale, flexibility, resilience and security so that you can handle your diverse and demanding on-premises and public cloud workloads.



## THE NUTANIX FILES ARCHITECTURE

A Nutanix Files cluster consists of two parts: File server VMs to handle the client connections, and the highly scalable and available Nutanix Volumes for storing the data. Nutanix Volumes ensures that the Files cluster has access to the entire storage pool on the Nutanix cluster and can grow on-demand.



There is a minimum of three file server VMs in each Files cluster, with each VM using as little as 4vCPUs and 12GB of RAM. The Files architecture allows seamless performance scaling by either adding more file server VMs to the Files cluster, or by providing more CPU and RAM resources to each File Server VM. Multiple File clusters can be created on a Nutanix cluster for those environments that need complete namespace isolation between departments or customers. The file server VMs can be scaled out as needed in lock step with the applications, files, and number of users. Files supports both SMB and NFS protocols.

## EVOLVE FROM STORAGE TO DATA MANAGEMENT WITH FILES ANALYTICS

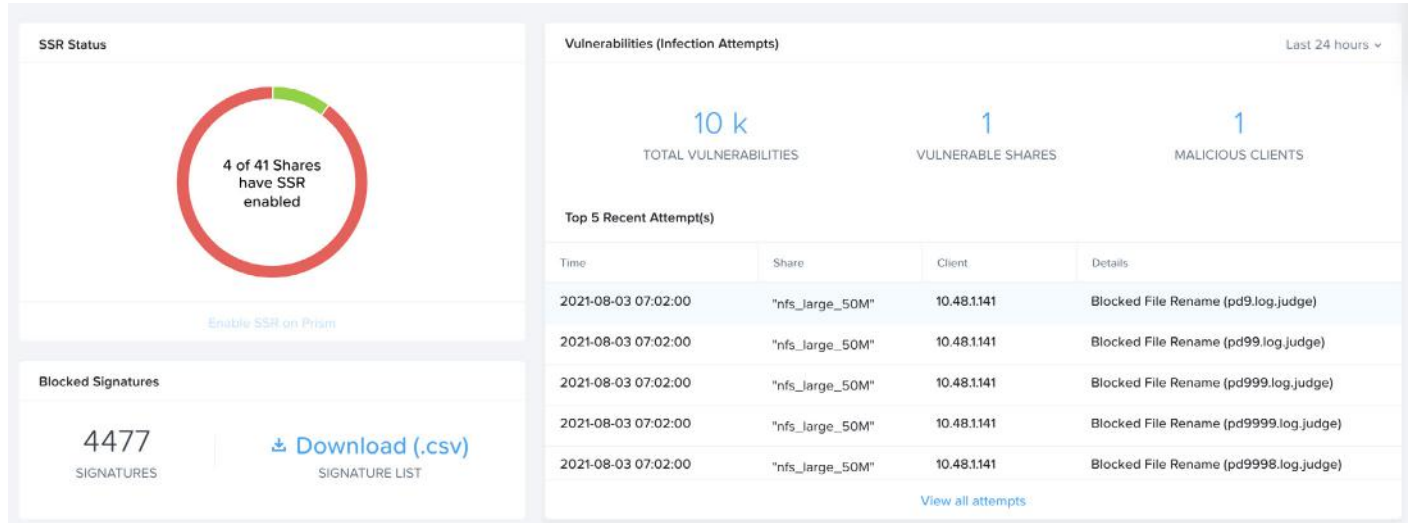
In an era where massive scale is the norm, gaining insights and understanding the data that your infrastructure is hosting is critical. That is why Nutanix Files Analytics provides deep insights, analytics and greater visibility for your data. It also provides audit trails to track file access over time. Easy to use dashboards and customizable reporting provide deeper insight into the data.



## DETECT ANOMALIES, PREVENT RANSOMWARE

As data footprints grow, risks from internal and external threats increase. Nutanix Files Analytics provides tools to detect, prevent, recover from and analyze attacks against your data. The anomaly detection engine gives administrators a way to monitor analytics data for potential threats such as mass file deletion or mass permission changes. When anomalies are detected based on administrator defined policies, alerts are sent to warn the administrator of the threat.

Recent enhancements to our anomaly detection solution include ransomware detection and prevention. With ransomware detection, the anomaly detection engine watches for common attack types and ransomware signatures.



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