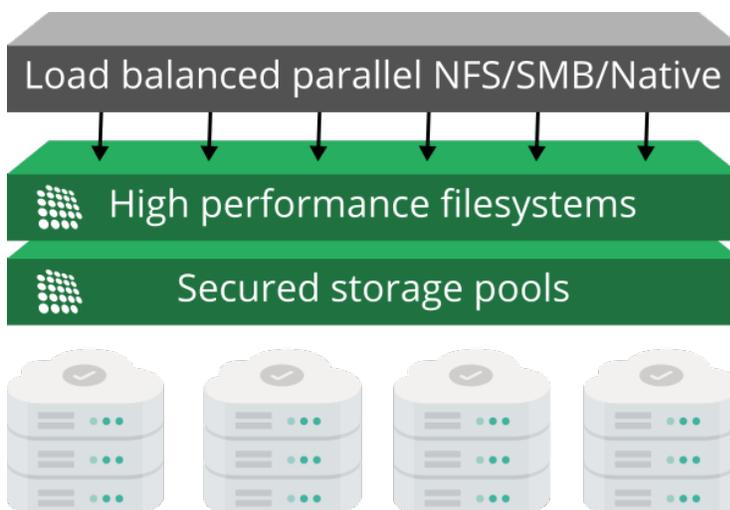




High Performance Software Defined Scale-Out NAS for the Modern Data Center

RozoFS® is a software-defined storage solution that delivers high performance storage at a low cost for the private, hybrid or public cloud. RozoFS supports the most demanding workloads with patented data protection and easy management. It reduces the Total Cost of Ownership by at least 10x when compared to traditional storage arrays by offering a software platform that runs on industry-standard x86 compute nodes and automates standard management storage tasks.

SCALABLE, ROBUST AND SIMPLE



RozoFS lets customers build a huge storage capacity shared at the well-known file level. RozoFS can export several file systems shared across multiple users or applications. Using innovative technology, RozoFS has no single point of failure and provides high system and data availability.

RozoFS provides a POSIX file system. No need for applications to be RozoFS aware, no refactoring, no API. Just use it as a traditional NAS. RozoFS provides integrated support for industry-standard protocols including NFS and SMB. It greatly simplifies storage consolidation and management.

RozoFS is ideally suited for a wide range of data-intensive, high performance applications including Media & Entertainment, Electronic Design Automation, Oil & Gas, High Performance Computing and Big Data.

SOFTWARE-DEFINED FLEXIBILITY

As a software only solution, RozoFS is hardware agnostic and therefore lets customers choose cost-efficient storage hardware without vendor lock-in.

It can be configured either as a purely dedicated storage or as a converged infrastructure, on premises or in the cloud. With RozoFS, the most cost effective infrastructure is selected based on needs.

SCALABILITY: UP, OUT OR DOWN

RozoFS' storage architecture enable it to scale up by adding capacity to the nodes, or scale-out by adding nodes to increase both capacity and performance. It can also scale-down by removing devices from servers. All the operations are performed without service interruption.

HIGH PERFORMANCE

RozoFS is built around a powerful erasure code algorithm, the Mojette Transform. Combined with a parallel networking architecture, it offers a storage system that handles real-time constraints of the applications.

Rozo optimizes your hardware performance whatever your media choice - HDD or flash. Each node in Rozo can sustain really high performance for sequential or random I/Os. Of course, the more nodes you add, the more performance you get.

DATA AND SYSTEM PROTECTION

RozoFS provides data and system protection by applying erasure coding at the file system block level and by storing data chunks on different storage servers. The number of servers is configured based on the required redundancy level. RozoFS provides data protection equivalent to three copies with only 50% redundancy overhead. The data protection method used by RozoFS makes disk and server failures transparent to the application.

Data integrity is achieved by applying a CRC-32 to each block stored on disk. In case of a data integrity violation, RozoFS has a self-healing capability that transparently corrects and re-writes the faulty block on disk without disturbing the application. RozoFS provides an automatic disk self-healing capability that maintains the expected level of redundancy by redistributing the data of a faulty device within the remaining devices of a storage node.

EASY MANAGEMENT

RozoFS provides a single point of management via CLI or web applications. Soft and hard quotas are provided. Nodes at different performance levels can be aggregated for tiering using RozoFS' management tools. In the same way, thin provisioning is made as easy as creation, deletion, sharing and resizing of

managed file systems. RozoFS supports standard monitoring tools such as Nagios.

ROZOFS FEATURES AND HARDWARE REQUIREMENTS

PROTOCOLS	File – POSIX	NFS v3, v4 and SMB v3
REQUIREMENTS	Min. # of nodes	Four x86 servers
	Networking	From 10 to 100GbE
	Storage Backend	Disk, flash or hybrid
	OS	GNU/Linux. Packages maintained for: Debian, CentOS, RHEL, Ubuntu
DEPLOYMENT	Software Only	Deployable on any industry-standard x86 platform
	Virtual Appliance	Deployable as a virtual machine on premise or in the cloud
	Physical Appliance	Compatible with industry-leading server vendors: Cisco, Dell, HPE, Lenovo, Quanta, Supermicro, etc.
	Public Cloud Deployment	Supports industry-leading clouds: Amazon AWS, Google Cloud, IBM Bluemix, Microsoft Azure
STORAGE SERVICES	Capacity	Scale-out NAS architecture. Expand with addition of nodes
	Max. # of Nodes	1,024
	Max. # of Volumes	1,024
	Max. # of File Systems	256
	Data Integrity	CRC-32
AVAILABILITY	Fault Tolerance	Withstands node and disk failure with no disruption
MANAGEMENT	GUI	File systems and shares management. High level status (capacity, performance)
	CLI/API	Low level cluster management: deployment, provisioning, diagnostic
	Monitoring	Nagios modules

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