



THE HIGH PERFORMANCE ERASURE CODE BASED SCALE-OUT NAS

Software defined scale-out NAS and erasure coding gathered for higher performance and superior economics.

While the need for storage capacity and the complexity of storage environments explode, traditional storage solutions have many pain points: data become difficult to store and index, scaling is expensive and complex, and unavailability is expensive. RozoFS® is designed to let customers take advantage of scale-out storage performance with simplicity and with high availability at lower cost, more securely and without the drawback of multiple copies.

ESSENTIAL

Software Defined Storage

High Scalability

High Performance

High Data Protection

Efficient Costs Reduction

USE CASES

Multimedia

Web Applications

Cloud Computing

HPC

BUSINESS CASES

Media & Entertainment

Hosting Services

Scientific Research

Healthcare

SCALABLE ROBUST STORAGE

RozoFS® let customers build a huge storage capacity shared at 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.

SOFTWARE DEFINED FLEXIBILITY

As a software only solution RozoFS® is hardware agnostic and therefore lets customers choose cost-efficient storage hardware without any vendor locking.

It can be used either on a dedicated hardware offering storage services only or in co-located environment where RozoFS® and applications share the same hardware (Virtualization, Big Data). RozoFS® lets you choose the cost effective infrastructure for your needs

SCALE-OUT PERFORMANCE

Storage or performance scalability is obtained simply by adding nodes without the need to take the system down and disrupt production. Thanks to RozoFS®

design, without traditional bottleneck, the more nodes you add the more performance you get.

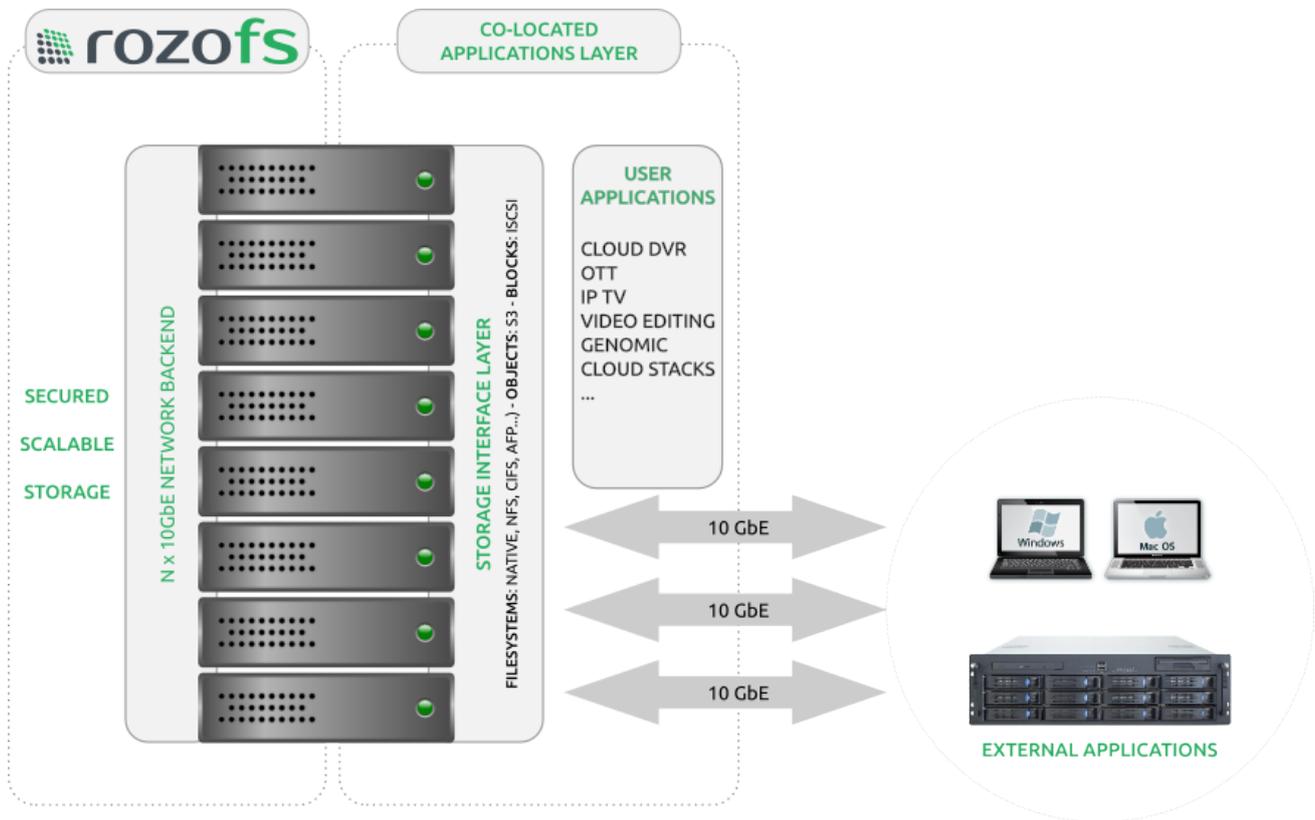
SUPERIOR ECONOMICS

Using innovative redundancy scheme for a software scale-out storage RozoFS® provides at same data protection level a raw capacity cuts up to 65% - less devices acquisition, power, cooling, space foot print... -

KEEP STORAGE USAGE AND MANAGEMENT SIMPLE

Working at large scale with both usual and emerging access methods, not only RozoFS® facilitates data sharing but more it prevents from fastidious LUN management. In addition there is no need to refactor applications to use solution's dedicated REST API.

Using its management tools one can simply aggregate nodes at different performances levels for tiering. In the same way, thin provisioning is made as easy as creation, deletion, sharing and resizing of managed file systems.



SCALE-OUT ARCHITECTURE

RozoFS[®] is a scale-out NAS to easily scale to petabytes of storage using the optimal raw capacity of commodity heterogeneous hardwares. It aims to provide an open source high performance and high availability scale-out storage software appliance for intensive disk I/O data center scenarios.

STANDARD SERVERS FLEXIBILITY

RozoFS software solution lets you see commodity server pools as a single storage resource. This storage can then be easily extended by new servers addition regardless of the vendor or technology.

FILESYSTEM EASE OF USE

RozoFS[®] provides a POSIX filesystem. No need for applications to

be RozoFS[®] aware, no refactoring, no API, just use it as a usual NAS. Providing integrated support for a wide range of industry-standard protocols including NFS, SMB, HTTP, FTP, REST/S3, iSCSI... RozoFS[®] greatly simplify storage consolidation and management.

INNOVATIVE AND ECONOMIC DATA PROTECTION

The data to be stored is partitioned into multiple chunks using the efficient Mojetta Transform erasure code. The chunks are distributed across storage devices. Original data can be retrieved even if multiple devices are unavailable. Chunks are meaningless alone ensuring confidentiality at storage level. RozoFS[®] uses redundancy schemes based on this coding technique that achieve significant storage savings when compared to simple replication.

MULTI WORKLOAD STORAGE

RozoFS[®] is ideally suited for a wide range of data-intensive, high performance applications including multimedia, web applications, virtualization and cloud computing, HPC and Big Data. It fits computing environments for media & entertainment, Internet and hosting services, scientific research, healthcare.

EASY MANAGEMENT

Single point of management via CLI or web application. Soft and hard quotas provided. Scale and maintain without any downtime. Common usage of standard monitoring tools (nagios)