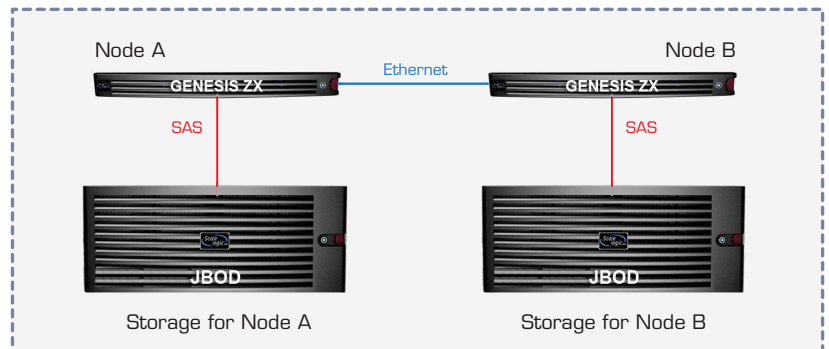


Genesis ZX delivers software-defined storage for media workflows, with high-available servers, unlimited Snap Shots, built-in data protection and petabyte scale capacity. This reduces primary storage costs, increases reliability, and protects your data including Malware.

## Features for small, medium and large workflows

- ZFS-based Linux-OS for storage server
- On and off-site data protection
- Support for iSCSI, NFS and SMB
- High-availability
- Tiered RAM and SSD caching
- Thick, thin and over provisioning
- In-line data deduplication and compression
- Self-healing
- Petabyte scalability
- Advanced Metro HA cluster



Powered by *open-e*

Backup on local pool  
 Backup on system in same location  
 Backup on remote site

RISKS	COUNTER MEASURE	RESTORE TIME
Virus Attack	Snapshots	Instant
Data Corruption	Self-healing	Instant
Disk Failure	RAID	Instant
Rebuild Failure	Second RAID	Instant
System Failure	Backup Server	Instant
Natural Disaster	Remote Server	Hours
Theft	Remote Server	Hours
Human Error	Remote Server	Hours
Downtime	High-availability	Instant

## It is all about the data

### Data Integrity

- Data and metadata check-summing
- Self-healing: Detecting and correcting silent-data-errors with scrub utility
- Atomic transaction writes: Data always being consistent, no need for repairing the file system

### Data Protection

- Native backup and disaster recovery: On and off-site data protection (Asynchronous Replication), also for ransomware protection
- N-way mirrors, single, dual and triple parity RAID
- Unlimited Snapshots and clones, copy-on-write
- VSS hardware provider

### Data Availability

- High-availability dual-controller clustering
- Active-Active and Active-Passive HA cluster
- Advanced Metro HA cluster

### Data Acceleration

- Write Log (ZIL) accelerate random writes
- Random-IO is written as sequential transaction group to the Pool
- Hybrid read cache, 1st level in RAM, 2nd read cache level with SSD
- Most recent and most frequent read cache algorithm
- Resilver (rebuild) data only, not the whole disk
- Compression and de-dup side effects can improve performance

### Data Optimization

- Online compression ( LZ4, LZJB, ZLE, GZIP 1..9 )
- Online deduplication
- Thin and over-provisioning
- Snapshots and clones

### Data Virtualization

- Pooled storage model
- Thick, thin and over-provisioning

### Data Accessibility

- iSCSI, NFS, SMB
- Virtual IP usage
- macOS, Windows, and Linux
- macOS Enhancements - Finder performance and Spotlight support

### Data Usability and Support

- Pre-installed ZFS appliance
- Certified ZFS level I, II, III tech support
- GUI tools for all operating systems
- Load analytics to see CPU, RAM, network busy, and storage busy/usage

## Deliver business continuity of your media assets.