IOPSTOR

SOFTWARE DEFINED STORAGE NAS | ENTERPRISE SERVER & NAS PLATFORM

ENTERPRISE STORAGE | SERVER-CLASS PLATFORM | SECURE • SCALABLE • READY

SOFTWARE DEFINED STORAGE NAS

Smart. Scalable. Secure.

IOPStor Storage Platform

IOPStor Enterprise Storage Appliance
Server-Class • NAS • Software Defined Storage

Meet Business Needs Now and Tomorrow

A flexible software-defined storage platform built around ZFS, scalable capacity and broad enterprise connectivity.

- **ZFS-based data protection**
- **RAID-Z storage**
- **SSD read/write caching**
- **Replication & snapshots**

FEATURE SET

• Scalability	• Replication	• Web Interface
• De-duplication	• ZFS Data Security	• SSD Read/Write Caching
• Hardware Agnostic	• SMB/CIFS / FTP	• FC / NFS
• iSCSI Block Storage	• High Availability	• Enterprise Ready
• VMware / Citrix / Windows Server Certified	• Unlimited Snapshots	• Customizable

KEY ADVANTAGES

ZFS Data Security Checksums, scrubs, snapshots and RAID-Z help protect data integrity.	**Flexible Expansion** Add drives or replace drives with larger capacity without migrating data.
Performance RAM and SSD caching plus compression help accelerate everyday storage workloads.	**Enterprise Connectivity** File and block protocols, Active Directory integration and web management.
Hardware Agnostic Designed to avoid lock-in to a single hardware vendor.	**Cost Conscious** No IOPStor software subscription or licence renewal model.

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PLATFORM CAPABILITIES

KEEP YOUR DATA SAFE

- **Built on ZFS** ZFS is a file system and volume manager designed so data stays correct.
- **Self-Healing Data** Every block is checksummed and verified on read. Scheduled scrubs check the pool and redundant copies can be used for repair.
- **Snapshots & Clones** Create read-only point-in-time copies and working clones for recovery and testing.
- **RAID-Z** RAID-Z1, Z2 and Z3 support protection against one, two or three failed drives.
- **Encryption** Optional AES-256 encryption for selected data, with customer-controlled keys.
- **Replication** Copy data to a second system on-site or at another location; only changes are transferred.

FAST WHERE IT MATTERS

- **Read/Write Cache** Frequently accessed data can be served from RAM and SSD cache; SSD/NVMe write logging can reduce write wait time.
- **Compression** LZ4 compression works in the background and can improve storage efficiency.
- **Hybrid Pools** Keep active data on SSD pools and older data on larger HDD pools.
- **Link Aggregation** Combine network ports using LACP for aggregate bandwidth and resilience.

MAKE THE MOST OF EVERY DRIVE

- **Deduplication** Stores repeated blocks only once, helping save space for workloads such as virtual machines.
- **Quotas & Reservations** Set space limits or guaranteed minimums for departments and shares.
- **Expand Without Migrating** Add drives or replace drives with larger ones without reformatting or moving data.
- **Hardware Agnostic** Avoid lock-in to one hardware vendor.

WORKS WITH WHAT YOU ALREADY RUN

- **File Sharing** SMB for Windows and Mac, NFS for Linux and VMware, and FTP.
- **Block Storage** iSCSI volumes for virtual machines and databases.
- **Active Directory** Use existing Windows domain accounts and AD group permissions.
- **Cloud Sync** Back up or sync selected folders to S3 Compatible Storage.
- **Certified** VMware Ready, Citrix Ready, Windows Server Certified and Cisco Compatible.
- **Web Management** Shares, users, snapshots and replication can be managed from one web interface.

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SPECIFICATIONS (IOP12MB)

SPECIFICATION	DETAIL
CPU	Intel Xeon 14 Core 2.3GHz *1nos (Dual socket R3 (LGA 2011) supports)
RAM	16 GB DDR4 (Up to 2TB† ECC 3DS LRDIMM ,; 16 DIMM slots,)
System SSD	120 GB SATA * 2nos
Cache SSD	120 GB SATA
Chassis	12 x 3.5" hot-swap drive bay, optional 2 x 2.5" hot-swap drive bay (1U 1200W/1000W redundant)
Network	2 RJ45 10GBase-T ports
Storage Data HDD	As required (Dedicated 3.5" drive mounts)

STORAGE OPTIONS

DRIVE OPTION	DRIVE CONFIGURATION	RAW CAPACITY	USABLE RAID-Z1
2TB SATA HDD	2TB × 4	8TB	6TB
4TB SATA HDD	4TB × 4	16TB	12TB
8TB SATA HDD	8TB × 4	32TB	24TB
16TB SATA HDD	16TB × 4	64TB	48TB
18TB SATA HDD	18TB × 4	72TB	54TB
960GB SATA SSD	960GB × 4	3.84TB	2.88TB
1.92TB SATA SSD	1.92TB × 4	7.68TB	5.76TB
3.84TB SATA SSD	3.84TB × 4	15.36TB	11.52TB

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