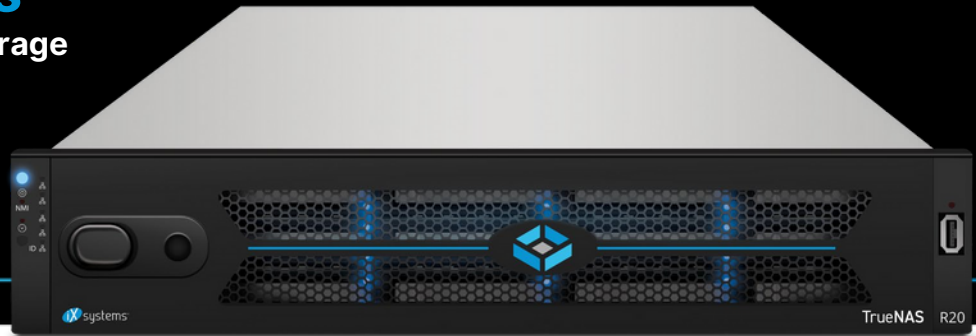


TrueNAS R-Series

Powerful Single Controller Storage

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Features



High-Density Unified Storage

Combines the robust capabilities of OpenZFS with cost-effective, single-controller hardware, available in both all-flash and hybrid models.



Scalable Architecture

Supports scale-up and scale-out S3 configurations, allowing seamless expansion from a single NAS/SAN/object target to clustered deployments, adapting to evolving storage requirements.



Advanced Data Protection

Features self-healing OpenZFS file system with copy-on-write, automatic bit-rot detection, built-in RAID protection, unlimited snapshots, and resilient replication to safeguard data integrity.



Flexible Integration

Compatible with major virtualization hypervisors, backup software, cloud storage services, and offers a fully-featured API for streamlined management, ensuring seamless integration into diverse IT infrastructures.

Unmatched Value

The TrueNAS R-Series offers high-density unified storage solutions that combine the robust features of OpenZFS with cost-effective, single-controller hardware. Available in all-flash and hybrid models, these systems deliver exceptional density and price-performance, making them ideal for organizations seeking scalable and reliable storage without compromising on quality.

Designed to maximize your storage budget, the R-Series appliances cater to environments that prioritize performance and scalability per dollar. Whether deployed as a standalone NAS/SAN/object storage solution or as nodes within a scale-out S3 cluster, the R-Series provides versatile storage options that enhance value and adaptability.

Benefits



Cost-Effective Performance

Optimizes per-dollar performance and scalability, delivering enterprise-grade storage solutions without compromising on quality or breaking the budget.



Simplified Data Management

Offers powerful features like data protection, snapshots, replication, scrubbing, data reduction, and security, simplifying data management tasks and reducing administrative overhead.



Enhanced Data Integrity

Utilizes self-healing OpenZFS technology to automatically detect and repair data corruption, ensuring that stored data remains accurate and reliable over time.

Simplify data management with the R-Series' powerful features, including data protection, snapshots, replication, scrubbing, data reduction, and security. Integrated enclosure management capabilities streamline monitoring, allowing administrators to oversee drive statuses from a single interface, thereby reducing complexity and administrative overhead.



TrueNAS R-Series Models

	TrueNAS R20	TrueNAS R30	TrueNAS R50
Storage	Hybrid	All NVMe	Hybrid
Height	2U - 10U	1U	4U - 12U
Chassis Depth	26", 660mm	33", 840mm	39", 990mm
Controllers	Single	Single	Single (field-replaceable)
Drive Bays	12 x 3.5", 2 x 2.5"	16 x NVMe	48 x 3.5", 4 x 2.5" (NVMe)
CPU per Controller	6 - 16 Cores	16 - 64 Cores	6 - 16 Cores
DRAM per Controller	32 GB - 192 GB	Up to 1024 GB	64 GB - 192 GB
Read & Write Cache	2 x 960 GB SATA SSDs	N/A	4 x 3.2 TB NVMe SSD
Networking	2x 10/25/40/100GbE 2 or 6 x 10GBaseT or SR	2 or 4x 10/25/40/100 GbE 2x 10GBase-T	2x 10/25/40/100 GbE 2 or 6 x 10GBaseT or SR
Fibre Channel (option)	2 x 32Gb	Up to 4 x 32Gb	2 x 32Gb
Expansion Shelves	2	0	2
Max Drives Supported	132	16	252
Max Throughput	8 GB/s	20 GB/s	10 GB/s
Max Raw Capacity	2.9 PB	240 TB	5 PB
Max Effective Capacity*	6 PB	480 TB	10 PB

* Maximum effective capacity assumes typical data reduction through compression and deduplication.

TrueNAS Enterprise Specifications

File-Based Protocols	Block-Based Protocols	Object Protocols	Directory Services	
- SMB v1/2/3 - NFSv3, v4, RDMA	- AFP, FTP, WebDAV - iSCSI, iSER - Fibre Channel - OpenStack Cinder	- S3-compliant using MinIO - Single node, Clustered	- Active Directory (AD) - FreeIPA	- Kerberos - LDAP, NIS
Networking	Virtualization	File System	High Availability	Data Mobility
- Port Trunking/NIC Teaming - IEEE 802.3ad link aggregation - IEEE 802.1q VLAN support	- Supports VMware and VAAI, ESXi snapshot integration, VM Warn/Stun, vCenter - Supports KVM, Citrix XenServer, Microsoft Hyper-V, and other common hypervisors - Microsoft VSS, ODX, and CSV - Integrated Apps	- OpenZFS Self-healing file system - Snapshots and clones - Thin and thick provisioning - Online capacity expansion - Virtual block devices - In-line compression and deduplication - ZFS Stripe, Mirror, RAID-Z1/Z2/Z3	Upgrade to F-Series , M-Series , or H-Series for HA Options	- Asynchronous file replication using Syncing - Data ingest and export to and from any SMB/NFS server
Backup	Supported Public Cloud Providers	TrueSecure Security	Remote Administration	
- Snapshot-based OpenZFS local/remote replication - Rsync and cloudsync - Truecloud backup to Storj - Supports Asigra, Acronis, Veeam, Nakivo, NetBackup, and more	- iX-Storj - Amazon S3 - BackBlaze B2 Cloud - Google Cloud - Microsoft Azure	- FIPS 140 for Data-at-rest and data-in-flight - Restricted Admins (Security, Storage, Monitor) - Auditing of SMB & Admin events (e.g. logins) - Encrypted Drives and Datasets, KMIP - NIST 800-209, GP-OS STIG	- Alert notifications via email, AWS-SNS, Hipchat, InfluxDB, Slack, Mattermost, OpsGenie, PagerDuty, and VictorOps - SSH, Syslog, Netdata - Automated backup of - REST APIs and SNMP system configuration and state - Graphical reporting, enclosure management - Signed updates with the ability to rollback - Out-of-Band Management - TrueCommand Management	



STYLITE



Optimieren Sie Ihre Speicherinfrastruktur mit **TrueNAS**.

Nehmen Sie Kontakt zu uns auf um mehr
zu erfahren.



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