

TrueNAS[®] for VMware

Tomorrow's Storage Here Today



Reduce IT costs, improve uptime, and reduce risk while consolidating islands of VM storage with the TrueNAS storage array. Available in hybrid and all-flash models, award-winning TrueNAS arrays provide unrivaled data integrity, scalability, and performance. With deployments in the hundreds of thousands, TrueNAS arrays build upon the strong Open Source community, while development teams ensure each VMware datastore protocol is pretested to handle the most demanding virtualization workloads.



Perfect for virtualization, TrueNAS systems can scale datastores to multiple petabytes of data, support 10, 40, or 100GbE and FC protocols, and come in hybrid or all-flash arrays with enterprise features such as snapshots, replications, cloud sync and failover built-in.



SAFE

TrueNAS safeguards VMs with its next-generation OpenZFS file system, self-healing capability, bit rot mitigation, and flexible snapshotting and replication.



FAST

TrueNAS gives VMs blazing-fast performance. Available in all-flash and hybrid flash models to meet the needs of your data center. A single TrueNAS M50 can scale to 800K IOPS and 10GB/s supporting thousands of VMs.



UNIFIED

TrueNAS supports block, file, and S3 object protocols, providing storage for any business application. It can be used for VM storage, file sharing between VMs and physical nodes, and also as a large-scale backup target (e.g. Veeam, Asigra).



PROVEN

TrueNAS is an ideal component of a private cloud or a virtualized all-flash data center. TrueNAS is VMware Ready Certified, supports VAAI, integrates with vSphere snapshots, and can be managed from vCenter, a necessary component of a virtualized data center.



ECONOMICAL

VM storage cost is a critical component to business and TrueNAS reduces storage TCO. CAPEX is reduced by storage optimization while OPEX is reduced with the TrueNAS tool-less design, modular architecture, and US-based support.



OPEN

TrueNAS uses the Open Source OpenZFS file system. OpenZFS is an enterprise-grade file system that iXsystems has delivered to more users than anyone. We pride ourselves on working closely with the Open Source community to ensure that OpenZFS remains a next-generation file system.



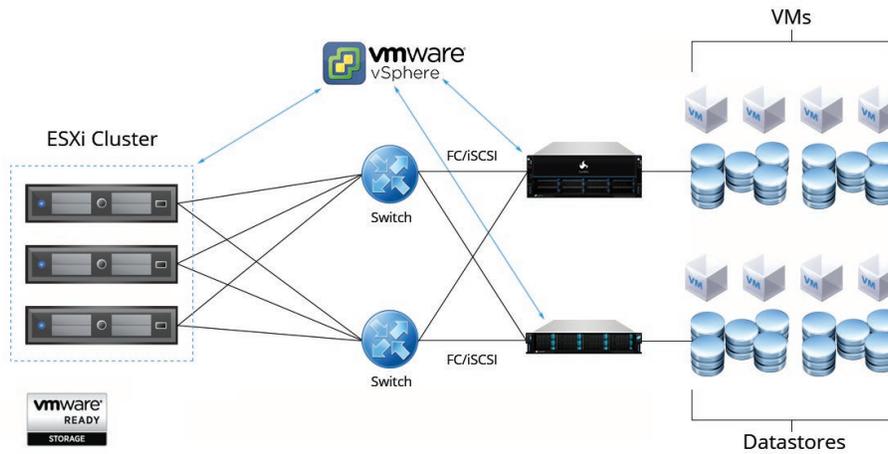
ENTERPRISE-READY

TrueNAS provides end-to-end data integrity and has redundancy throughout the storage array. Available in single and redundant controller models, TrueNAS can be upgraded to an HA configuration by seamlessly adding a storage controller, which protects your investment as your needs grow.



WHITE-GLOVE SUPPORT

Concerns over support often prevent certain enterprise applications from being virtualized. iXsystems can act as an extension of your IT team to support the operation of VMs. iXsystems has a reputation for high quality service and support and significantly more customers prefer iXsystems support to other vendors' support.



Feature	TrueNAS All-Flash	TrueNAS Hybrid
		
Enterprise Features	Unlimited snapshots and clones, replication, encryption Intelligent in-line compression and deduplication, read/write caching, thin provisioning, self-healing file system, non-disruptive software upgrades, online capacity expansion, RAID protection, S.M.A.R.T. monitoring, Angular Web Interface, REST and websockets API, enclosure management, single-pane-of-glass management of multiple systems	
Connectivity	16/32Gb/sec FC, 10/40/100GbE	8/16/32Gb/sec FC, 1/10/40/100GbE
Protocols	NFS, SMB, AFP, iSCSI, FC, and S3-API protocols	
Capacity & Data Disks	Up to 1.60PB using 216 drive bays	Up to 10.4PB using 744 drive bays
Effective Capacity*	Up to 6PB	Up to 26PB
Supported Hypervisors	ESXi 5.5-6.7	
VMware Ready Certifications	NFS, iSCSI, VAAI/Block, TrueNAS 9.x, 11.x	
Datastores Supported	VMFS-4, VMFS-5, and VMFS-6 on NAS and iSCSI/FC	
VMware Infrastructure Integrations	vCenter Plugin 6.0, 6.5, 6.7, VAAI, SIOC, Storage DRS, TrueNAS snapshots integrated with vSphere snapshots	
High-Availability Support	Yes, Dual Controller Option	Yes, Dual Controller Option
Capacity Architecture	All-Flash	Flash Assisted Hybrid
Cache Architecture	N/A All-Flash	SSD, NVMe, and NVDIMM

* Compression rates vary by application. 2.5x compression used for hybrid arrays and 5x for the all-flash array is reflected in the effective capacity.

"I know I can easily bring back a Virtual Machine if something goes wrong and that makes me sleep well at night."

Steve Davidson,
Ashland Food Co-Op

"Our previous solution made expansion very difficult, and would have required multiple servers, splitting up storage between them. With TrueNAS, we can very easily extend our volume as much as needed by adding drives and expansion shelves."

Ben Diger,
Children's Hospitals and Clinics of Minnesota

"Previously, updates to VMware would take everything down for 3 to 4 hours. With our TrueNAS system, they only take about 30 minutes."

Peter Loshier,
ISC

"TrueNAS allowed us to virtualize everything we do in our operations from just a single system running VMware instances to multiple systems, all with impressive performance. TrueNAS gives us an edge over our competition."

John Konc,
A&C Mold

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