



# iXsystems TrueRack Series

## Converged Infrastructure for Hyperscale Applications

A modular rack-scale system enabling customers to quickly, easily, and automatically deploy thousands of virtual machines supporting hyperscale business-critical applications, including Hadoop, Cassandra, MySQL, VDI, Infrastructure as a Service (IaaS), and Object Storage. TrueRack® offers over 4X higher bandwidth and a 70% lower Total Cost of Ownership (TCO) than Amazon Web Services (AWS) and other public cloud providers.

**Rack Scale Compute + Storage**

- **Flexible:** Grow to multi-PB and virtualize
- **Economical:** Save 70% over AWS
- **Powerful:** Blazing performance and 4x bandwidth
- **Proven:** Reduce business risk
- **Scalable:** Standardized building blocks enable scaling of storage and compute independently
- **Choice:** No hardware or solution lock-in
- **Open:** Compatible with all industry standard software



### FLEXIBLE

Built from award-winning components, TrueRack is the platform for deploying a private cloud or a virtualized data center. Each TrueRack can scale to five petabytes of storage, thousands of CPU cores, and over 30TB of RAM. Choose virtualization platforms, such as VMware, KVM, Citrix XenServer, and Kodiak Data.



### ECONOMICAL

The TrueRack converged infrastructure saves you up to 70% in TCO over AWS and other public cloud vendors. TCO advantages begin at only 10U and scale from there, letting you efficiently — and cost-effectively — grow your infrastructure with your business.



### POWERFUL

Blazing-fast applications with four times higher bandwidth (40/100Gb) than AWS. Storage available in all-flash and hybrid flash/disk configurations. Unparalleled CPU core density. TrueRack can be configured to meet the performance needs of your most demanding applications.



### PROVEN

Reduce business risk through pre-integrated configurations, tested before deployment in your data center or colocation facility. Choose from a range of widely-deployed configurations based on iXsystems' 20 years experience delivering servers, storage, and award-winning support.



### REPEATABLE

TrueRack comes in several repeatable pre-built configurations or can be customized from standardized building blocks. Storage and compute can be added independently, enabling you to support changing needs for your VMs, big data, cloud, and other business applications.



### CHOICE

TrueRack does not lock you into proprietary hardware or specific solutions. It is built from standardized building block configurations of storage, servers, and networking that can be purchased or leased as needed. Storage and compute can be added independently, enabling you to support changing needs for your VMs, big data, cloud, and other business applications.



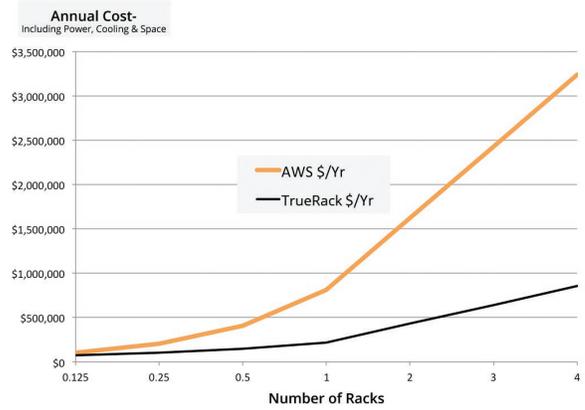
### OPEN

TrueRack is open to any industry standard software including GNU/Linux and FreeBSD and can be integrated with TrueNAS®, which uses the OpenZFS enterprise-grade file system to keep data safe and secure. TrueRack can also be integrated with management tool chains using Redfish and OpenIPMI.

## Benefits

TrueRack's converged approach reduces the TCO, complexity, risk, and time to deployment for virtualization, Private Clouds, Big Data, web-scale, HPC, and virtually any hyperscale and computing application. It does not lock you into one design; as needs change you can change the infrastructure allocated to compute, storage, and networking.

You can choose virtualization software, such as VMware, KVM, OpenStack and Kodiak Data. TrueRack is an ideal solution for high capacity compute/storage when you need to manage on a budget, while its low cost gives TrueRack an ROI of about three months.



Standard Building Blocks	Flexible Platforms
<ul style="list-style-type: none"> <li>Servers – Compute-Heavy, Data-Heavy</li> <li>RAM – Configurable per Server</li> <li>Storage – NAS, iSCSI, HDD, Flash</li> <li>Networking – Switches, HBAs, Cables</li> <li>Software – Virtualization, OS, Data Platform</li> <li>Racks – Power, PDUs, UPS, Management</li> </ul>	<p>TrueRack is available in many turnkey solution configurations, each based on the performance or capacity required and comes in all-flash or flash-assisted (hybrid) versions. TrueRack is built from standardized building blocks, and scales just-in-time with your business as needed.</p>

## Configuration

TrueRack is available in three reference configurations. Pricing for TrueRack starts at \$125,000 for a full rack, and scales depending upon your needs. Configurations can be customized to address the compute and storage needs of an application and will occupy as little as ¼ rack or be deployed across multiple racks. Repeatable deployment processes reduce risk and enable businesses to grow more smoothly.

Standard Racks	Use Case	Configuration	Savings Over AWS [for five years]
TrueRack B40 <b>Balanced</b>	Ideal for OpenStack, IaaS, R&D environments, Linux and FreeBSD VMs, and VSAN	RAM: Up to 10TB CORES: Up to 1000 STORAGE: Up to 2000TB Hybrid	Up to \$1,190,000
TrueRack C40 <b>Compute</b>	Ideal for high performance business-applications including VDI	RAM: Up to 30TB CORES: Up to 3200 STORAGE: Up to 200TB All-Flash	Up to \$1,890,000
TrueRack D40 <b>Data</b>	Ideal for Hadoop, Cassandra, Backup and Object storage applications	RAM: Up to 4TB CORES: Up to 400 STORAGE: Up to 5PB Hybrid	Up to \$1,680,000

## iXsystems Experience

TrueRack leverages iXsystems' 20+ years of expertise in data center services, letting customers quickly and effectively deploy data center applications with radical cost savings. iXsystems built its business on quality service and support that consistently exceeds customer expectations. Our U.S.-based team of engineers and support professionals become an extension of your team, providing both proactive and reactive support for your TrueRack deployment. You no longer need to scramble for services or additional hardware, saving you significant operational expenses. Customers confirm that iXsystems consistently provides "5 Star Support" and prefer our support to that of other vendors.

*"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

*"When doing maintenance at 3am, every minute counts. Boot times and VM build times have been reduced by more than half."*

Todd Lamonia,  
IT WorldWide Services

*"We've had the pleasure of working with iXsystems. They're very responsive and accommodating to our needs, even when our needs shift or are atypical."*

Daniel Vargas,  
Stanford University



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