

# Drive Business Value and Competitive Advantage with Intelligent Infrastructure from Tintri

## AI and ML Power a Different Experience

Infrastructure growth is outpacing the available resources and expertise required for its on-going management. Data, storage systems, and other infrastructure resources continue to grow even as IT budgets and headcounts remain flat, and a shortage of skilled staff creates challenges for organizations that need to move faster than ever to maintain a competitive edge. At the same time, new workloads, the integration of edge and public cloud infrastructure, and the need to reduce operational complexity demand more agile, integrated systems that are flexible and purpose-built for today's digital business.

Intelligent Infrastructure bridges the gap between the demand for IT resources and the experts available to manage them. Driven by machine learning (ML) and autonomous operations in support of artificial intelligence (AI), Intelligent Infrastructure solves the IT staffing shortfall by enabling existing staff to focus efforts on higher value strategic activities and innovation to accelerate business growth.

By optimizing infrastructure resources for application consumption through the use of machine learning, and applying tuning as software overlays, Tintri helps you save time and money by refocusing human capital away from mundane administrative tasks toward activities that improve service levels for internal and external customers.

## Tintri: A Smarter and Simpler Way to Manage Infrastructure

Leveraging ML and AI, Tintri's comprehensive portfolio of storage systems delivers a fresh, simplified Intelligent Infrastructure experience that enables your business to rapidly transform data into actionable insight for a more proactive approach to marketplace demands.

- **Superior agility:** Tintri supports extreme VM scalability and dynamic workload mobility to optimize resources for applications across hybrid clouds.
- **Greater certainty:** Tintri solutions consistently enable enterprises to meet performance-dependent business requirements – latency, IOPS or RPO.
- **Enhanced self-service:** Tintri Intelligent Infrastructure autonomously optimizes its own configurations to meet the changing needs of self-service environments and to maintain performance and data management SLAs.
- **Actionable insights:** Tintri's intelligence and analysis – from database to individual VM level – enables more effective, timely decisions that improve the productivity of applications.
- **Increased control:** Tintri solutions automate mundane, time-consuming, repeatable tasks while also maintaining granular visibility and control – e.g., setting policies at the individual VM level.
- **Improved access:** Tintri's portfolio protects investments while maintaining data access for existing and future data types or network protocols, including physical and virtualized applications, file (NFS, SMB3) and block (iSCSI, Fibre Channel) protocols.

Tintri storage solutions address data center needs with a smarter and simpler approach to infrastructure management by applying AI, ML, and real-time predictive analytics to optimize processes, save time, and improve productivity while maintaining critical service levels.

The result? A transformed data center experience that eliminates the need to compromise on enterprise storage capabilities while freeing IT staff to focus on activities that drive business value and competitive advantage.

## Highlights

### Tintri VMstore™

#### Predictable Performance

- **AI automated QoS for VMs and databases:** Each VM, database, and container volume gets the exact resources to deliver <1ms latency
- **Zero administrator intervention:** Automatically allocates up/down as I/O needs change

#### Visibility with Value

- **Troubleshoot in seconds:** Get advanced curated advice, alerts, and real-time latency for each VM
- **Provision with precision:** Model storage and compute needs 18 months into the future
- **Accelerate Productivity to Maximize Efficiency**
  - **Speed developer velocity with snapshots and clones:** Spin up 1,000 VMs and database clones in minutes
  - **Easily accommodate data growth and movement:** Dynamically scale to over 40PB and move workloads to optimize resources and efficiency across hybrid clouds

### Tintri IntelliFlash™

#### Consistent Low Latency with NVMe-Optimized Architecture

- **Run every workload at near memory speed:** NVMe high IOPS at low latency cuts data analysis time in half, and a fully optimized stack turbo-charges performance and increases throughput

#### Global Insight with Cloud-Based Analytics

- **Troubleshoot in seconds:** Gather information from systems worldwide for deep insights into apps and storage, and maximize uptime and efficiency with per-VM intelligence and performance monitoring
- **Provision with precision:** Model storage and compute needs 18 months into the future

#### Flexible Architecture with Mix and Match Storage Media and Protocols

- **Optimal Mix of Performance and Capacity:** Combine the performance benefits of NVMe with the economics of SAS capacity and scale as needed without impacting performance

## Tintri VMstore for Virtualized Environments

Tintri VMstore is the most advanced storage platform for virtualized environments, offering all-flash systems that provide excellent performance and deep integration with, and awareness of, virtual machines and SQL databases. As our flagship Intelligent Infrastructure offering, VMstore incorporates advances beyond flash technology, file system architecture, and UI design to make storage for virtual applications simple and efficient. And because it goes beyond simple awareness to true integration with VMs and SQL databases, VMstore collects insights and manages data structures at the storage layer for VMs, containers, databases, and applications.

VMstore eliminates unnecessary abstractions and many of the restrictions associated with standard infrastructure. Not only does this remove hinderances to performance and scalability, it also reduces management complexity and cost. And because VMstore systems are managed in terms of VMs and virtual disks – the same level as the rest of the virtual infrastructure – not in terms of LUNs, volumes, and RAID configurations, IT simply manages VMs rather than administer storage as a separately configured component.

VMstore provides a simplified, yet elevated experience across the enterprise – whether deployed as a department, remote office or large-scale enterprise-wide solution.

## Tintri IntelliFlash for Uncompromised Performance

Designed for performance-sensitive workloads, Tintri IntelliFlash all-flash and hybrid systems provide exceptional performance at low latency, flexibility at scale, and comprehensive data services and management. Deep intelligence in the handling of metadata, caching, and performance management combined with predictive failure analytics set IntelliFlash apart from competitive offerings. NVMe-based all-flash systems enable you to achieve the highest performance at low latency for your most intense workloads. Our hybrid systems mix hard disk drives (HDDs) with flash (SSDs) within the same unit so you can select the optimal combination of SSD-based performance with HDD-driven economics to meet your needs.

IntelliFlash systems deliver substantial TCO savings with up to 5:1 data reduction for lower OPEX across power, floor space, cooling, and administration costs. IntelliFlash systems also come in various configurations that enable you to dial up performance and flash capacity to meet primary storage business economics. Analytics for IntelliFlash enable you to quickly and easily monitor the health, performance, and usage of all IntelliFlash systems, predict future requirements, and detect issues before they impact your business.

## NexentaStor Software-Defined Storage

NexentaStor software-defined storage delivers high-performance block, file, and object storage services with limitless scalability you can rely on. It provides high IOPS and sub-millisecond latency for small random I/O workloads that are typical of databases, enterprise applications, and high-performance private cloud (VMware, OpenStack and Hyper-V) environments.

With NexentaStor's open source-driven storage software, you can eliminate storage silos to lower CapEx and OpEx while decreasing your future costs by moving to software-defined storage. NexentaStor scales up and scale out to meet today and tomorrow's application needs with agile, flexible storage software that lets you take advantage of all-flash, hybrid, and all-HDD options.

## Highlights

### NexentaStor™

#### Open Software-Defined Storage

- **Variety of deployment options:** Consistent storage services across on-premises, private cloud, and public cloud; with all-flash, hybrid, and all-HDD options
- **Zero administrator intervention:** Automatically allocates up/down as I/O needs change

#### Choice with Control for Intelligent, Automated Decisions

- **Storage management and analytics:** Single screen reporting, monitoring, analytics, and orchestration for all storage assets
- **Flexibility and fit for existing environment:** Supports file, block, and object storage for cloud-native applications, and provides seamless VMware integration: file, block, VAAI, VVOL, and vCenter Plug-in

Experience Different! For more information on how Tintri Intelligent Infrastructure can turbo-charge your business success, visit [www.tintri.com](http://www.tintri.com).



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