



## Purpose-Built VDI Storage Solution for Educational Services

### Simplify, Automate and Scale VMware and Citrix Environments With Intelligent Infrastructure

Remote learning has dramatically changed how educational curricula are delivered and how students engage with content that was once available only in the physical classroom. This unbounded classroom environment has shifted to the digital delivery of coursework, creating tremendous flexibility but also posing challenges for out-of-classroom work. Consistent, predictable performance and access to classroom applications and teaching resources can be hindered by the volume of endpoint devices used by students, faculty and administrators – and the broad range of end-user behaviors displayed.

Deploying Virtual Desktop Infrastructure (VDI) in school and college environments gives students, instructors and administrators much greater flexibility when accessing applications and systems. By simplifying and centralizing desktop management, educational institutions can gain unprecedented flexibility, productivity improvements and cost savings while ensuring data is securely protected against potential points of failure or attack. At the same time, VDI can free IT administrators from time-consuming, resource-intensive end-user management and maintenance tasks on physical devices, enabling them to focus on strategic initiatives that are core to the business.

Unfortunately, most conventional storage is not built for highly virtualized environments and cannot keep pace with VDI demands, which often leads to deployment and scalability issues, performance degradation, and a poor overall user experience. For example, a common problem in the virtual classroom is the need to refresh workstations (virtual desktops) daily and sometime even between classes!

### Highlights

- **Purpose-built to optimize VDI performance**  
Tintri VMstore isolates every virtual desktop to eliminate resource contention and maintain consistent, predictable performance for all users.
- **Scale with unprecedented predictability, flexibility and ease**  
Simply add resources to scale your VDI/EUC infrastructure dynamically and intelligently. VMstore optimizes virtual desktop placement for performance and capacity.
- **Increase visibility**  
End-to-end visibility instantly pinpoints bottlenecks across your entire infrastructure — compute, network and storage — and provides insights at the individual VM level, while a real-time dashboard displays the immediate impact of individual desktops on IT resources.
- **Reduce cost and complexity**  
Flexibly grow VDI with economical drive-level expansion or large-scale system-level expansion to support hundreds of thousands of desktops. Eliminate guesswork and overprovisioning by accurately modeling the impact of new workloads on your environment.
- **Provide the ultimate user experience**  
Deliver a consistent desktop experience and eliminate 95% of administrative tasks with auto-QoS, real-time workload balancing, AI-driven troubleshooting, and fast resolution.

Conventional storage struggles to perform these refresh operations without significant performance degradation, which leads to storage over-provisioning as an inefficient remedy. The complexity and high cost of supporting virtualized workloads on conventional storage can delay or even halt VDI initiatives before any benefits can be realized.

Tintri VMstore, by contrast, is designed for virtualization. It delivers predictable VDI performance with sub-millisecond latencies, consumes a fraction of standard storage infrastructure footprints and reduces administrative effort and cost by up to 95%. And VMstore SyncVM™, a unique copy-data-management feature, solves the virtual desktop refresh problem mentioned above. With SyncVM, customers can refresh hundreds or even thousands of student desktops in seconds, without any performance degradation or increased storage capacity.

## Tintri VMstore: Purpose-Built to Optimize VDI

Tintri VMstore is Intelligent Infrastructure that simplifies, automates, and scales VMware and Citrix environments. VMstore maintains optimal system performance and delivers a consistent experience for each end-user. It automatically balances resources for each desktop with autonomous quality of service (Auto-QoS), eliminating manual tuning and storage management, and avoiding the performance degradation that can occur when many virtual desktops compete for resources.

## Simplify VDI Operations and Reduce IT Burden

Tintri VMstore systems can be deployed in minutes so virtual desktops can be up and running quickly without requiring storage expertise. Intelligent monitoring and automation enable thousands of desktops to be managed in just minutes per month. Because VDI teams can manage their own footprints with generalist-friendly VMstore administration, there is no specialized training required — which means greater operational efficiencies and cost-savings for your IT organization.

End-to-end visibility provides intelligence and insight across your entire infrastructure, which enables you to identify the root cause of latency in seconds across compute, network,

and storage — for any and all desktops. With Tintri, your team can shift its focus away from managing storage to managing the IT services delivered to students, faculty and administrators.

## Provide the Ultimate User Experience

User experience is a key measure of a successful VDI initiative. With Tintri VMstore, autonomous operations create a frictionless IT and end-user experience that supports easy access, consistent performance and improved productivity. Self-optimizing systems empower IT staff with a game-changing self-service experience that eliminates thousands of hours of time-consuming manual configuration and tuning.

With Tintri VMstore you can maintain optimal per-desktop performance by reducing latency to less than 1ms and automatically balancing resources for every desktop with Auto-QoS. In addition, you can protect each desktop according to its own needs with granular VM-level snapshots and restores that eliminate disruptive LUN-level restores.

## Reduce Cost and Complexity

Tintri VMstore reduces storage footprints and management complexity; a single datastore can support thousands of virtual desktops and users. Intelligent scaling eliminates cumbersome calculations by automatically optimizing virtual desktop placement for performance and capacity. You can also flexibly grow VDI implementations with economical, granular drive-level expansion or large-scale system-level expansion to support hundreds of thousands of desktops. You can even clone, deploy and refresh thousands of virtual desktops in minutes without the performance impact incurred when using other storage solutions.

Tintri VMstore provides precise, dynamic storage scaling for each virtual desktop, including smart analytics that can predict capacity and performance requirements up to 18 months in advance — so you can purchase storage only when needed and eliminate the cost of wasted, overprovisioned resources. Plus, with Tintri VMstore, you don't have to "rip and replace" as you add storage systems because you can leverage your existing compute, network, OS and hypervisor technologies.

**Experience Different!** For more information on Tintri VMstore and how it can successfully turbo-charge your VDI environment with a simple, scalable Intelligent Infrastructure, visit [tintri.com/vmstore](http://tintri.com/vmstore). Or better yet, contact your Tintri representative or infrastructure partner and request a demo of VMstore for VDI.

