

# Purpose-Built VDI Storage Solution for Federal Government

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

Federal agencies have traditionally relied on a core group of individuals that could work remotely for operational continuity. Today's reality, however, demands that many more federal workers be able to securely access IT resources regardless of their location. The sudden and involuntary shift to remote work has led the transition to Virtual Desktop Infrastructure (VDI) for uninterrupted delivery of federal government services. The need to dramatically scale and support a largely remote workforce can challenge federal agencies to move faster than ever. At the same time, IT needs to demonstrate that it is meeting both budgetary and resource constraints while also improving response time and ROI.

The move to VDI can help federal agencies achieve these goals without the usual trade-offs required to meet both user and organizational expectations. In addition, VDI can address the specific needs of federal government entities, providing access to critical applications and systems in times of public emergency, after a security breach, or when a physical machine has been compromised. VDI gives users greater flexibility to access apps and systems while adhering to federal security and compliance requirements. IT also gains greater control with simplified and centralized desktop management. A single virtual desktop image that is cloned across the organization can free IT administrators from time-consuming end-user management and maintenance tasks. These VDI-enabled efficiencies can help government organizations realize unprecedented productivity improvements and cost savings while data is securely protected against possible points of failure or attack.

Unfortunately, most conventional storage is not built for highly virtualized environments and cannot keep pace with VDI demands. These limitations often lead to deployment and scalability issues, performance degradation, and a poor overall user experience. 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.

## Highlights

- **Purpose-built to optimize VDI performance**  
Tintri VMstore isolates every virtual desktop to eliminate resource contention and maintain consistent, predictable performance.
- **Scale with unprecedented predictability, flexibility and ease**  
Simply add the exact resources to scale your VDI/EUC infrastructure and model how adding new workloads or resources will impact your environment.
- **Increase visibility**  
End-to-end visibility provides intelligence across your entire infrastructure — compute, network and storage — or at the individual VM level while a real-time dashboard shows immediate impact of individual desktops on IT resources.
- **High density**  
Eliminate overprovisioning and scale as you go by running thousands of virtual desktops with each high-density 2RU storage system.
- **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 and scale by optimizing virtual desktop placement for performance and capacity.
- **Provide the ultimate user experience**  
Deliver a consistent desktop experience with real-time workload balancing, AI- driven troubleshooting, and fast, resource- optimizing resolution.

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%.

## 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.

