ULTIMATE STORAGE FOR CITRIX XENDESKTOP

Superior end-user experience. Effortless management. Lower TCO.

CITRIX® Ready

THE VDI CHALLENGE

Virtual Desktop Infrastructure (VDI) is the "perfect storm" of difficult workloads for most infrastructure, particularly traditional storage arrays. When VDI implementations fail, either technically or economically, the root cause is often overloaded storage. The most common challenges faced in VDI deployments include:

Performance and Availability: With productivity on the line, virtual and mobile desktops simply have to provide the uninterrupted performance users demand. Downtime and slow desktops simply aren't an option.

Cost Containment: Storage is typically the largest cost of any infrastructure component when deploying Citrix XenDesktop, accounting for 50% or more of infrastructure spending. Keeping storage costs low and predictable is key.

Seamless Scalability: Storage systems can quickly become overloaded, running out of performance or capacity when faced with VDI at production scale. Most storage infrastructure can be challenging – and costly – to manage at scale.

THE PURE STORAGE SOLUTION

Pure Storage solutions are powerful, simple, and resilient all-flash storage – featuring the industry's most granular and comprehensive data reduction and power, cooling, and space savings that enable a lower TCO than disk. Easy to install, and simple to manage and scale. Forget about end-user experience challenges – you'll get consistent sub-ms latency, disruption-free through maintenance and upgrades. And best of all, you'll get the power and efficiency to consolidate and secure your other mission-critical workloads alongside your XenDesktop VMs.

HOW PURE IS DIFFERENT

- Superior end-user experience
- Lower storage costs ($49/desktop) and TCO for VDI
- All-flash performance and non-disruptive operations through HW and SW maintenance and upgrades

- Industry-leading data reduction
- Simple to install and manage
- Seamless scalability and resilience
- Easily grow from pilot to thousands of users
- Secure VDI with always-on data-at-rest encryption

> "Data storage is the backbone of the district. Student access is dependent on data—how quickly we can read and write. So the impact of Pure Storage has been huge. Pure has made life simpler for everyone in the district."
>
> — Chris Dean, Director Network Services

FlashStack

FLASHSTACK MINI

PURESTORAGE®

THE PURE STORAGE ADVANTAGE

ALL-FLASH SPEED AND SECURITY

VDI security (always-on encryption) and mobility with consistent <1ms latency that outperforms a laptop with local SSD.

100% FLASH FOR LESS THAN DISK

Realize TCO below the cost of disk with data reduction typically > 10:1 and 2-3x savings on data center power, cooling, and space for VDI workloads.

SIMPLEST ADMINISTRATION

Desktop admins don't want to be storage admins. Pure Storage is simple to install and configure — it's the easiest storage you'll ever manage.

SCALE AND RELIABILITY

With your organization's productivity on the line, VDI is mission-critical. Pure Storage delivers high availability, consistent performance, and non-disruptive operations.
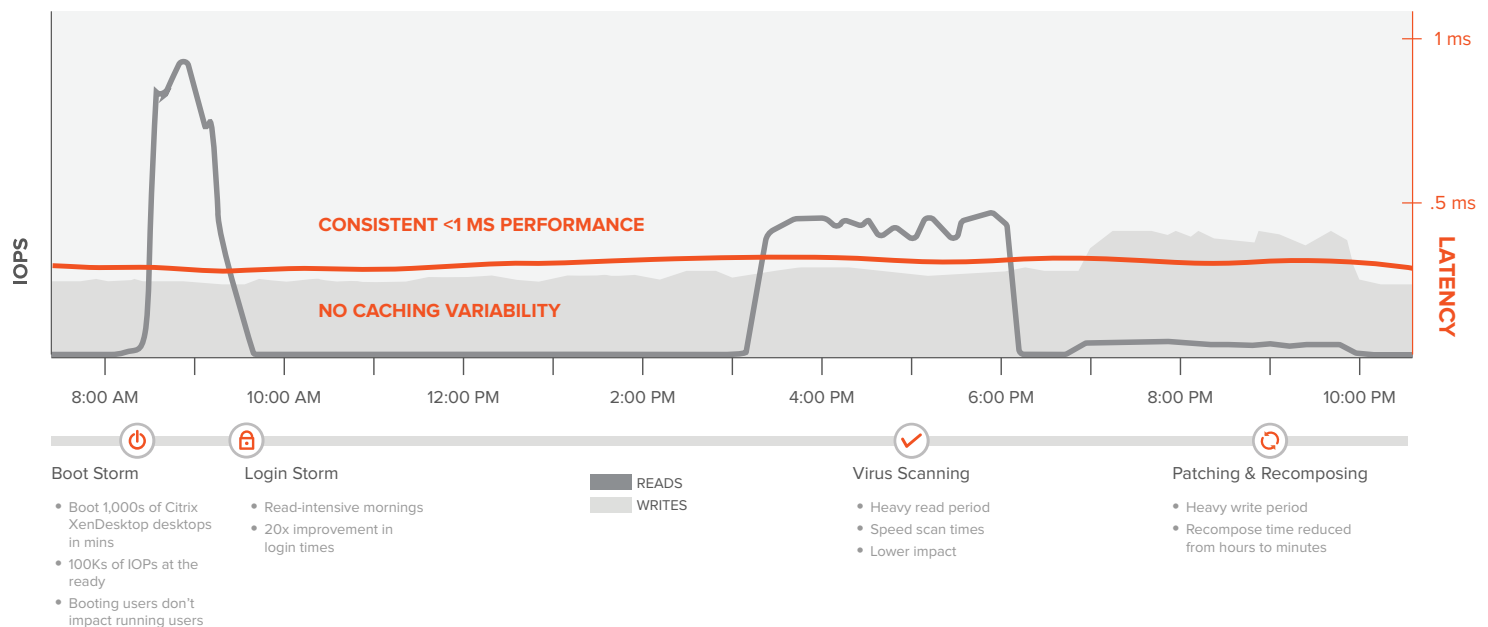
MULTIPLE WORKLOADS

Consolidate XenDesktop VMs alongside server and database workloads with no performance impact.

STATELESS OR PERSISTENT

Both stateless and persistent desktops reduce to the same space on the FlashArray.

EXTREMELY PREDICTABLE USER EXPERIENCE

IOPS

LATENCY

1 ms

.5 ms

CONSISTENT <1 MS PERFORMANCE

NO CACHING VARIABILITY

8:00 AM   10:00 AM   12:00 PM   2:00 PM   4:00 PM   6:00 PM   8:00 PM   10:00 PM

Boot Storm
- Boot 1,000s of Citrix XenDesktop desktops in mins
- 100Ks of IOPs at the ready
- Booting users don't impact running users

Login Storm
- Read-intensive mornings
- 20x improvement in login times

READS
WRITES

Virus Scanning
- Heavy read period
- Speed scan times
- Lower impact

Patching & Recomposing
- Heavy write period
- Recompose time reduced from hours to minutes
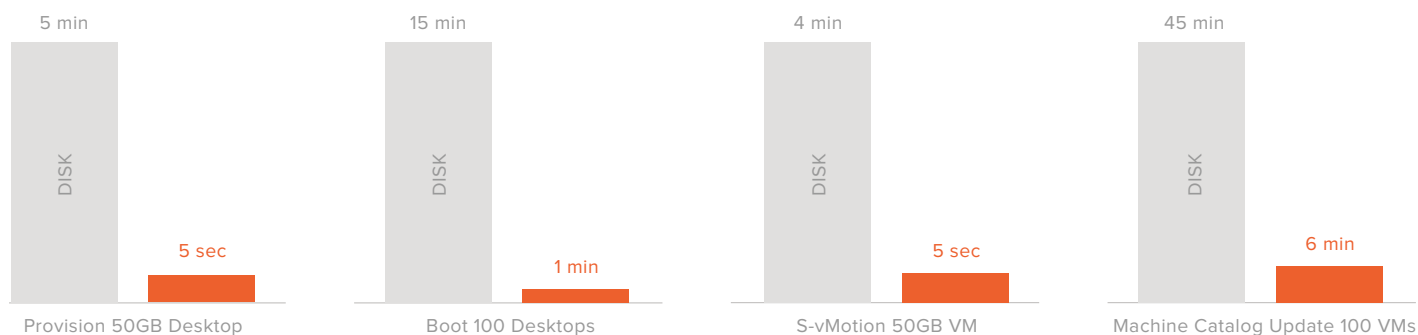
SCALE CONFIDENTLY AND SEAMLESSLY

From pilot to production, scale your VDI without disruption. Pure Storage FlashArray has been validated as a Citrix Ready product and has passed Citrix Ready VDI Capacity Program for Storage Partners verification tests.

	//X10	//X20	//X50	//X70	//X90
EXAMPLE CONFIGURATIONS					
CITRIX XENDESKTOP VMs*	100 – 2,000	2,000 – 4,000	3,000 – 7,000	7,000+	8,500+
RAW CAPACITY	Up to 20 TB	Up to 87 TB	Up to 185 TB	Up to 366 TB	Up to 878 TB
EFFECTIVE VDI CAPACITY*	Up to 55 TB in 3U	Up to 275TB in 3U	Up to 650 TB in 3U	Up to 1.3 PB in 3U	Up to 3 PB in 6U

* Assuming typical data reduction rates. Note: best practices suggest limiting any single VDI deployment to no more than 5000-7500 desktops per infrastructure component.

SIMPLIFY AND ACCELERATE MANAGEMENT

Pure Storage makes the administrator experience faster and easier.

5 min	15 min	4 min	45 min
DISK	DISK	DISK	DISK
5 sec	1 min	5 sec	6 min
Provision 50GB Desktop	Boot 100 Desktops	S-vMotion 50GB VM	Machine Catalog Update 100 VMs

ACCELERATE CITRIX XENDESKTOP DEPLOYMENT

The Pure FlashStack™ solution from Cisco and Pure Storage is a converged infrastructure solution that brings the power and efficiency of all-flash storage to your entire data center – whether you start small or go big. FlashStack for Citrix XenDesktop is pre-tested and validated as part of a Cisco Validated Design (CVD), and has been proven to provide exceptional VDI performance at scale. FlashStack includes industry-leading components: Cisco UCS, Cisco Nexus, and the Pure Storage FlashArray.

PURESTORAGE®

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