



SOLUTION BRIEF

Modern Storage for VMware Horizon

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



THE VDI CHALLENGE

Virtual Desktop Infrastructure (VDI) is the “perfect storm” of difficult workloads for most infrastructure, particularly traditional storage arrays. When VDI, also known as End User Compute (EUC), 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, remote 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 VMware Horizon, accounting for 50% or more of infrastructure spending. Keeping storage costs low and predictable is key.
- **Disruptive scaling:** 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 and upgrade at scale.

“Thanks to the all-flash performance, students were able to take full advantage of the resources provided to them via our VDI to run compilations quickly and smoothly.”

SAMUEL S.K. KWAN, PHD

Director, Information Technology
Services Center, Hong Kong
University of Science and Technology





THE PURE STORAGE SOLUTION

Pure Storage FlashArray//X is powerful, simple, and resilient 100% NVMe all-flash storage. It features 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 user experience challenges. Get consistent sub-ms latency and accomplish upgrades transparently without disrupting VDI users. And best of all, you'll get the power and efficiency to consolidate and secure your other mission-critical workloads alongside your Horizon VMs.

How Pure Is Different

- 100% NVMe provides superior end-user computing experience
- Lower storage costs and TCO for VDI
- Nondisruptive operations for users through hardware and software 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
- VMware Advanced Technology Alliance Partner

THE PURE STORAGE ADVANTAGE



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.



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.



SIMPLE 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.



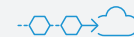
ALL-FLASH SPEED AND SECURITY

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



MULTIPLE WORKLOADS

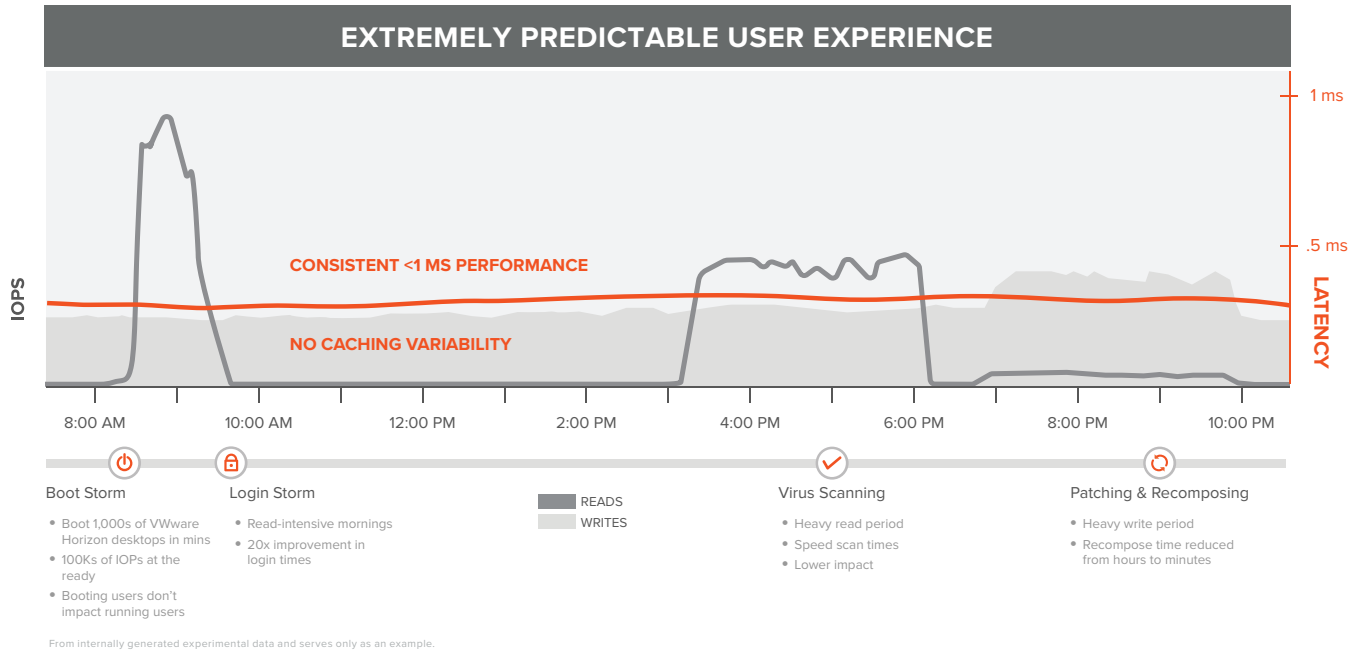
Consolidate Horizon VMs alongside server and database workloads with no performance impact.



FLOATING OR DEDICATED

Both floating and dedicated desktops reduce to the same space on the FlashArray™.





SCALE CONFIDENTLY AND SEAMLESSLY

	//X10	//X20	//X50	//X70	//X90
EXAMPLE CONFIGURATIONS					
HORIZON EUC/VDI USERS ¹	100 – 2,000	2,000 – 4,000	3,000 – 7,000	7,000+	8,500+
RAW CAPACITY ²	Up to 22TB	Up to 91TB	Up to 183TB	Up to 622TB	Up to 878TB
EFFECTIVE VDI CAPACITY ³	Up to 116TB in 3U	Up to 438TB in 3U	Up to 917TB in 3U	Up to 3.6PB in 3U	Up to 5.2PB in 6U

From pilot to production, scale your VDI/EUC without disruption.

1. VMware Best Practice suggests limiting any single VDI deployment to no more than 10,000 desktops per infrastructure component.
2. Capacities based on FlashArray//X R3 models.
3. Assumes VDI data reduction rate of 8:1. Your data reduction results may vary based on workload.





ACCELERATE VMWARE HORIZON DEPLOYMENT

The Cisco and Pure Storage FlashStack™ solution 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 VMware Horizon 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, Cisco MDS, and the Pure Storage FlashArray.

FOR MORE INFORMATION

For more information about FlashStack solutions, contact:

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