

REDEFINE VDI WITH XtremIO

SOLUTION HIGHLIGHTS

- **Unparalleled user experience**— Deliver virtual desktops with response times superior to those of physical desktops, including tablets with flash memory and ultrabooks with solid-state drives (SSDs).
- **Fast and easy scaling from pilot to production**—Leverage existing desktop management tools and paradigms to rapidly provision new desktops. Roll out VDI without complexity. Move easily from pilot to large scale production.
- **All-Flash performance at lower than physical desktop price**— Achieve performance and cost efficiency that is impossible with physical desktops.
- **Integration with EMC VSI**— Easily deploy Citrix XenDesktop and VMware Horizon View virtual desktops from VMware vCenter within seconds.
- **Integration with VMare VAAI**— Offload common tasks to XtremIO all-flash arrays from VMware vSphere for enhanced performance
- **Value of EMC products, services, and partner offerings**— Leverage benefits of the full spectrum of products and services offerings from EMC and its partners

SOLUTION OVERVIEW

BEST USER EXPERIENCE AT THE LOWEST COST

Within End-User Computing, Virtual Desktop Infrastructure (VDI) holds the promise not only of consolidating desktops into the data center for improved manageability, efficiency, and security, but also shaping and evolving next-generation services such as bring-your-own-device and desktop mobility. However, implementing large-scale VDI environments presents many challenges. Administrators must rapidly roll out both persistent and non-persistent desktops for all users -- task workers, knowledge workers, and power users -- without compromising an outstanding user experience.

In addition, a VDI solution must be simple to deploy, manage, and scale with substantial cost savings over physical desktops. Storage is a critical component of an effective VDI solution, and XtremIO completely transforms storage from a traditional bottleneck into a powerful enabler for VDI.

XtremIO storage redefines VDI deployments, ushering in a new era of unparalleled user experience and unprecedented simplicity, all at the lowest cost. Large VDI deployments are feasible only with XtremIO's flash-specific architecture that linearly scales performance and capacity in tandem.

UNPARALLELED USER EXPERIENCE FOR ALL USERS

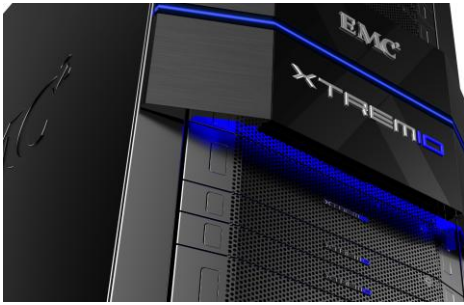
XtremIO delivers massive, consistent I/O performance to ensure that every desktop provides an ideal user experience. Applications respond instantly and consistently, faster than on physical desktops. The user experience is unaffected by boot storms, antivirus scans, suspend/resume operations, application peak demands, user activity, or used capacity on the XtremIO array. XtremIO delivers any desired level of performance, from hundreds of IOPS to peak rates of thousands of IOPS per desktop. *With XtremIO, every VDI user enjoys the best user experience.*

FAST AND EASY SCALING FROM PILOT TO PRODUCTION

XtremIO empowers you to easily move from pilot to large scale production. In contrast to all other VDI storage solutions, XtremIO enables you to quickly deploy linked clones, full clones, and pooled-static, pooled-random, dedicated, or Provisioning Services (PVS) desktops, or any combination of these to meet business requirements with no concessions for storage performance. *XtremIO is easy to deploy.*

Manage VDI with existing desktop management tools and paradigms without special changes. With the EMC Virtual Storage Integrator (VSI), XtremIO provides the ability to easily deploy Citrix XenDesktop and VMware Horizon View virtual desktops from VMware vCenter within seconds. Pools of hundreds of desktops can be set up and ready for user logins within an hour. This is achieved by taking a master image and creating fast clones, then registering the fast clone image with VDI clients. XtremIO integrates VMware VAAI (vStorage APIs for Array Integration) for inline data reduction and in-memory metadata for rapid rollout of full clone desktops from within VMware vSphere. XtremIO enables offloading and acceleration of common tasks to its all-flash arrays, and easily supports all types of users and mixed workloads. *XtremIO is simple to manage.*

XtremIO delivers performance that scales as the number of desktops grows. Leveraging unique in-memory provisioning, XtremIO's scale-out design easily supports additional performance and capacity requirements, automatically delivering more performance to existing desktops. This keeps the entire environment



With XtremIO, a VDI environment supporting thousands of persistent and non-persistent desktops is easily supported on a compact and powerful 4U flash array, with full high availability, unparalleled user experience, and the lowest cost per desktop.

balanced as it grows and ensures that every user always gets the best desktop experience. *Easily expand from pilot to production scale VDI.*

ALL-FLASH PERFORMANCE AT BETTER THAN PHYSICAL DESKTOP PRICE

XtremIO's always-on, real-time inline data reduction technology dramatically shrinks the amount of storage capacity required to support VDI environments. Thousands of virtual desktops can be deployed with only a few terabytes of flash. For the first time, full clone desktops can be deployed easily and cost-effectively, allowing existing desktop management tools and applications to be re-used in virtual desktop environments. Non-persistent desktops can also be used alone or in combination with persistent desktops. Administrators no longer need to de-feature desktops or be limited to non-persistent desktops. Every desktop can be fully functional, customizable, and affordable. *At the lowest cost per desktop, XtremIO makes all-flash storage for VDI completely affordable.*

VALUE OF EMC PRODUCTS, SERVICES, AND PARTNERS

As part of the EMC portfolio, XtremIO allows for integration with your existing EMC backup and recovery solutions, storage for user data, and management models for low operational expenses. XtremIO systems are available on a stand-alone basis or with the VCE Vblock Specialized Systems for Extreme Applications converged compute, network, and storage infrastructure offerings that are ready to deploy VDI at proven scale. Only EMC offers global engineering and support and the full spectrum of products and services across its partner community. *Leverage the full value of EMC and its partners.*

XTREMIO ADVANTAGE	VALUE IN VDI ENVIRONMENTS	BENEFITS
Consistent massive IOPS, low latency	Deliver better than local SSD user experience	Delight users, adopt VDI at scale, improve productivity, reduce helpdesk calls
Deployment flexibility	Use any combination of persistent and non-persistent desktops	Provision based on business requirements, not infrastructure limits
Operational simplicity	Scale from pilot to large-scale production	Achieve success with VDI projects
Scalability	Simple and rapid in-memory provisioning Grow to any number of desktops within the same storage system	Roll out or upgrade hundreds of desktops in minutes Achieve any deployment scale or desired IOPS/desktop performance level
Efficiency	Reduce data center footprint	Achieve best rack space per desktop and power consumption per desktop
Lowest cost per desktop	Attain lower costs than physical desktops	Facilitate project justification

For more information, visit www.xtremio.com/vdi

CONTACT US

To learn more about how EMC products, services, and solutions can help solve your business and IT challenges, [contact](#) your local representative or authorized reseller—or visit us at www.emc.com.

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