

TOP 10 REASONS WHY CUSTOMERS DEPLOY VDI ON DELL EMC XTREMIO

10

The Dell EMC XtremIO purpose-built all-flash array transforms the way you deliver VDI. Whether you are rolling out 100 or 100,000 desktops, your users are call-center employees or sophisticated CAD designers, you are an 8 to 6 organization or you follow the sun with 24x7 operations, XtremIO delivers an incredibly cost-effective, agile VDI storage platform with a consistent user experience.

1 | Unparalleled User Experience

XtremIO delivers an unparalleled user experience for ALL user and desktop types at any scale, all the time. With its massive I/O performance, XtremIO ensures that every desktop provides an ideal user experience. Applications respond instantly and consistently, faster than on physical desktops. With XtremIO, every VDI user enjoys the best user experience.

2 | Completely Stormproof VDI

XtremIO provides very high performance with consistently low sub-millisecond latencies regardless of the VDI workload. User experience is not affected by boot storms, antivirus scans, suspend/resume operations, application peak demands, user activity, or used capacity on the array. XtremIO delivers any desired level of performance—from tens of thousands of IOPS to peak rates of hundreds of thousands of IOPS in large VDI deployments.

3 | Dramatically Reduced Capacity Needs

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. Full clone persistent desktops can be deployed easily and cost effectively, allowing existing desktop management tools and applications to be re-used in virtual desktop environments. And non-persistent desktops like Instant clones or Linked clones 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 with the potentially added complexity of application/user data layering technologies to achieve persistence. Every desktop can be fully functional, customizable, and affordable without complexity. The storage capacity savings are significant even when virtual desktops are deployed with application layering technologies for achieving user desktop persistence.

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4 | Rapid Virtual Desktop Provisioning

With XtremIO, VM cloning with hypervisors' copy offload primitives (like VAAI Copy Offload or X-COPY for VMware and ODX for Hyper-V/Windows Server) is a control plane operation, unlike other arrays where it is a data plane operation involving SSDs. XtremIO doesn't store duplicate data globally across the cluster and the deduplication happens inline and in-memory. As a result, the copy operation in XtremIO happens at RAM speed without consuming any extra space, and the host sees effective throughput higher than the physical bandwidth available. This fast cloning has nothing to do with SSDs—it is a result of the way XtremIO manages copies with the metadata pointers in the system, all stored in RAM. With XtremIO, VM cloning and virtual desktop provisioning tasks are carried out at memory speed rather than SSD speed.

5 | Radically Simple Admin Experience

With all of XtremIO's technical innovations, it is easy to lose sight of one of its most powerful benefits—radical simplicity. It truly is as easy as 1-2-3 to configure, deploy, and tune all workloads, including VDI.

- Step 1: Create the volumes—any number of any sizes
- Step 2: Create the initiator groups for all of the hosts and their applications
- Step 3: Map the volumes to those initiator groups

That's it. No tuning, nothing else. XtremIO's modern HTML 5 user interface provides all the enterprise level features at consumer-grade simplicity. As an admin, you can have your life back.

6 | Reduced Planning Complexity

With XtremIO's scale-up and scale-out storage, you can start small and grow incrementally to nearly any scale without service disruption. When you need to grow your VDI environment, you can add additional SSDs to an X-Brick or even add an X-Brick to your existing XtremIO cluster—XtremIO automatically rebalances both metadata and data across the entire cluster while all applications keep running with the same performance levels. This online expansion is completely transparent to VDI users, and VDI storage planning complexity is virtually eliminated.

7 | Industry Leading Platform Integration

With XtremIO and the Dell EMC Virtual Storage Integrator (VSI), you can deploy VMware Horizon and Citrix XenDesktop virtual desktops from VMware vCenter easily within seconds. Pools of hundreds of desktops can be set up and ready for user logins within an hour. This is achieved by creating fast clones of the master image with in-memory metadata updates consuming no additional flash capacity. The clone images are then registered in the VDI desktop catalog and powered up. XtremIO integration with Dell EMC CloudIQ, which provides cloud-enabled monitoring of Dell EMC storage environments, enables administrators to proactively track storage health, predict capacity shortages, and detect performance anomalies in the VDI storage infrastructure running on XtremIO.

8 | Turnkey VDI Solution Options with Converged Infrastructure

Dell EMC VxBlock 1000 is a pre-integrated, pre-engineered, and factory-tested converged appliance that provides a complete, turnkey, truly plug-n-play VDI solution with a single point of management for all servers, networking, and XtremIO. VxBlock can deliver a complete end-to-end VDI solution with integrated components for infrastructure and virtualization software along with management tools for virtual desktop deployment orchestration and automation, support desk, and application delivery.

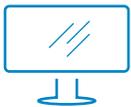
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9 | Unmatched TCO and Cost Per Desktop

XtremIO redefines VDI deployments, ushering in a new era of unparalleled user experience and unprecedented simplicity, all at the lowest cost. Whether you deploy task worker desktops for call center employees or high-performance desktops for software developers, you always get an unmatched TCO and lowest cost per desktop. XtremIO makes all-flash storage for VDI completely affordable.

10 | One Platform to Rule Them All

XtremIO excels not only at VDI, but also at mixed workload storage—enabling virtualized and tier-1 workloads to be run on the same XtremIO all-flash array. The array's purpose-built design with an innovative use of SSD flash technologies delivers true N-way active-active, scale-out architecture and advanced, in-line, all-the-time data services for cost-effectiveness. Further, XtremIO's metadata-aware replication technology redefines replication efficiency making business continuity and disaster recovery a snap—even for the largest VDI deployments with tens of thousands of desktops. And its unique copy data management coupled with automated self-service workflows for application administrators enables organizations to modernize their infrastructures, achieve application agility, and transform their businesses.



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