

VMware Horizon 7 with Datrium Automatrix

SOLUTION BRIEF

Highlights

- Improve end-user experience with flash performance and local data
- Using new and existing servers with commodity server-based flash gives users more choices and reduces the total cost per VDI user
- Get predictability and cost-effective resource utilization with multi-dimensional growth and elastic scalability
- Protect your virtual desktop and infrastructure from failures, ransomware, and natural disasters
- Simplify management with native VMware interfaces and VM-centric approach
- Do more with less by using resource optimization through data reduction and VAAI integration

The Challenge

Managing a robust and growing virtual desktop infrastructure (VDI) in current IT environments is getting more difficult for IT teams because they're often playing multiple roles. Getting the right combination of computing resources – servers, storage, and software – that perform well enough for today's demanding users while still being affordable and manageable can seem overwhelming. IT organizations are faced with finding the right platform that supports the required set of integrated and tested components, performs well, is easily managed and cost-effective, and leverages innovation and flexibility to overcome performance and cost issues.

The Solution

Datrium DVX, a part of the Automatrix platform, has been certified for VMware Horizon solutions. Starting as small as a single virtualization host and scaling as needed to meet the demands of business growth are easily accomplished with the hybrid cloud capabilities of DVX. The DVX system accelerates the deployment of virtual desktops, including applications. Performance is maximized with host local flash and data handling features, including zero-copy clone offload. Capacity is optimized through always-on data reduction with compression and deduplication for greater storage efficiency.

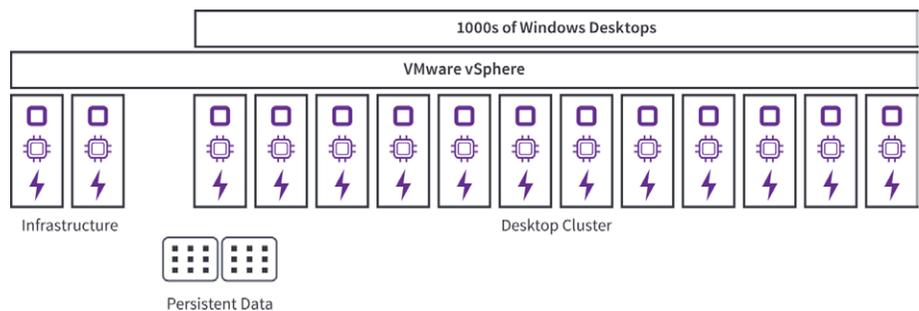


Figure 1 – VDI Scale-Out Architecture Example

Key Benefits:

Multi-Dimensional Growth with Elastic Scalability

DVX enables capacity and performance to grow in different dimensions. If performance is needed, an IT team can add a new server with a couple of flash devices; or, if capacity is required, they can add another data node – up to 10 data nodes and up to 4 petabytes of usable capacity.

The DVX architecture provides ultimate flexibility by placing flash closer to the desktop and applications, so performance improves where needed. DVX simplifies VMware Horizon deployments and troubleshooting, handles boot and login storms as it scales from a few hundred desktops to thousands, all while remaining cost-effective.

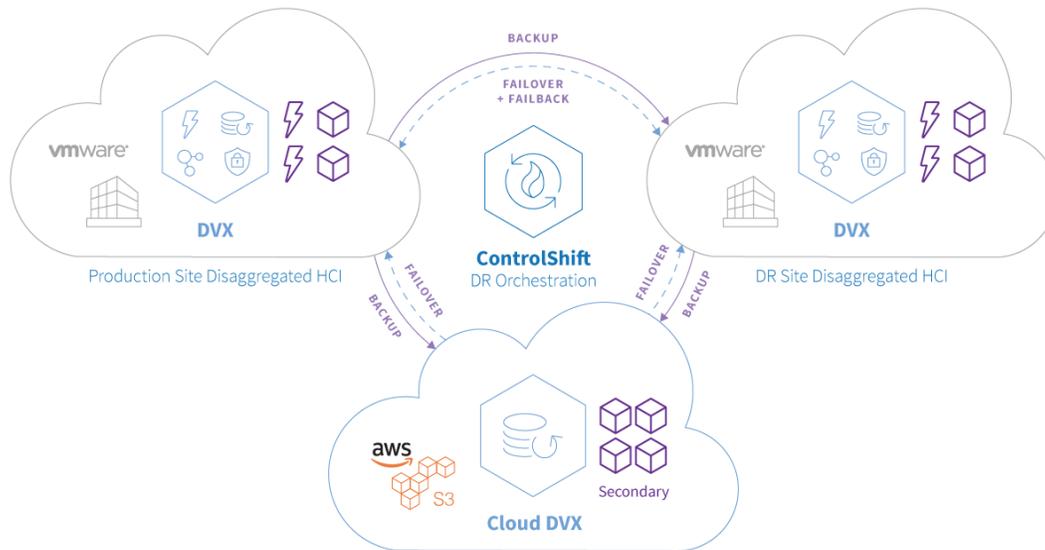


Figure 2 – Datrium DRaaS Components and their Disaster Recovery Functions

Data Mobility and Protection

VDI environments typically span multiple sites to achieve a better end-user experience by placing the virtual desktops closer to the end-users, which reduces display protocol latency.

Using Automatrix built-in elastic replication with universal deduplication, a VMware Horizon administrator can replicate any virtual desktop or file that's stored on the DVX datastore to another DVX datastore within the VDI environment.

DVX also provides instant recovery from older backups for ransomware recovery. Enterprises can recover thousands of virtual desktops from the same point in time to restart their entire data center with instant RTO.

VM-Centric Management

DVX is easy to deploy and even easier to manage, and all administration is VM-centric using VMware vCenter. A single DVX Data Node is the right place to put all of the VDI components from desktop templates, images, and user data to the operational components that drive the infrastructure.

Datrium DRaaS (DR as a Service) for VMware Horizon

Datrium DRaaS with VMware Cloud on AWS is a comprehensive cloud-based backup and disaster recovery (DR) service that protects DVX on-premises systems, which are built on top of the Automatrix platform. It leverages the execution and operational efficiencies of a single integrated data stack to automate and orchestrate all aspects of DR.

DRaaS delivers a single-stack backup and DR service for the enterprise, without contract management overhead. The solution

offers a single provider, a single bill, and enterprises can use VMware Cloud on AWS for automated and user-defined DR plans with failover and failback from the public cloud.

With DRaaS, you get a complete solution that delivers comprehensive support, simplified purchasing, and billing, which eliminates the cost and friction caused by multiple point solutions. You get everything you need for failproof, on-demand DR to the public cloud in one solution.

VMware Horizon Administrators can execute on-demand failover of VMware Horizon servers and desktops to VMware Cloud on AWS using ControlShift DR plans. IT teams can choose from a broad range of DR sites around the world and only pay for their DR site when they need it.

Conclusion

Automatrix offers IT organizations the opportunity to drive revenues 5x faster, reduce time spent managing infrastructure by as much as 95%, and reduce infrastructure costs by up to 75%.

To achieve these benefits, Datrium has evolved the server-powered, 1-tier model of hyperconvergence to deliver scalable data consolidation, including flexible, low-latency performance, resilience for mission-critical mixed workloads, mixed server environments, and converged backup and DR across prem and cloud.

Automatrix provides the ultimate flexibility and performance for VMware Horizon. It handles the most demanding applications as well as boot and login storms. It scales from a few hundred desktops to thousands, all while maintaining compelling economics with a high return on investment.

