



Red Hat Virtualization runs on Datrium

Highlights

- Efficiently consolidate and run all workloads on a single platform
- Deploy Red Hat Virtualization in a fraction of the time it takes with traditional legacy infrastructures
- Seamlessly scale-out compute and storage independently with granular pay-as-you-go consumption model
- Keep applications and data protected with robust data management capabilities
- Simplify management and eliminate the cost and complexity of SAN and NAS-based storage

 The ideal IT infrastructure for Red Hat based virtualization and cloud solutions

The Challenge

Legacy approaches to enterprise storage, such as SAN, make it difficult for organizations to reduce complexity in the datacenter, while Hyperconverged solutions force IT to constantly rethink the configuration of hosts, network, and storage in hopes that infrastructure will grow linearly.

The reality is that storage capacity and compute performance rarely grow at the same rate, while application performance and SLA's get more stringent over time.

The Solution

The ideal IT infrastructure solution – servers and storage – for Red Hat Virtualization should focus on managing VMs and virtualized applications rather than the underlying systems. After all, applications drive business. The Datrium DVX takes the approach of separating capacity and performance for flexibility in growing with the business at the same time combining the compute and storage into a solution that is effortless to manage.

With Datrium, each Red Hat Linux host leverages local CPU and flash for performance while sharing the DVX storage resources for simpler overall management. Figure 1 shows Red Hat Virtualization virtual machines running on Datrium DVX. No other solution provides the same level of flexibility for server and storage choices for Red Hat Virtualization.

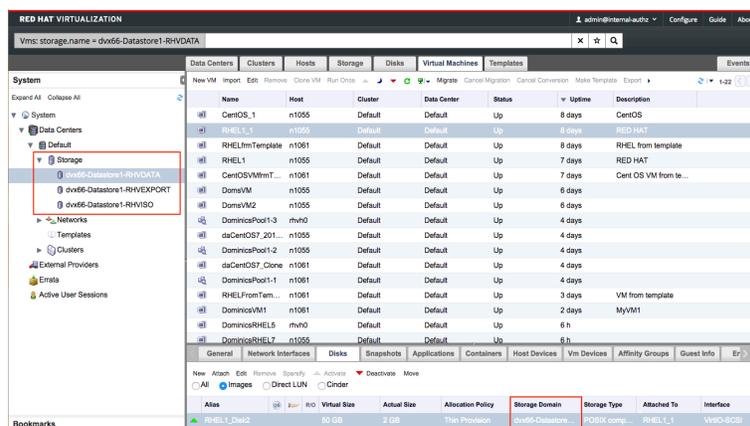


Figure 1: Datrium DVX for Red Hat Virtualization

Key Benefits

Efficiently consolidate and run all workloads on a single platform

Datrium's unique ability to isolate most of the storage operations onto the individual host means different workloads can run on the same DVX platform without affecting each other – essentially eliminating neighbor noise. Adding hosts for specific needs does not affect the hosts already configured to the DVX system.

For production or critical server applications, use Datrium's Insane Mode (per host) feature and experience performance improvements on that host's virtual machine workloads.

Overall, virtual machine users and virtualized applications can experience up to 5X lower latency compared to SAN based all-flash arrays. With Datrium DVX, all read I/O stays local on the Red Hat Virtualization hosts to ensure that critical server applications performance latency is optimal.

Deploy Red Hat Virtualization in a fraction of the time it takes with traditional legacy infrastructures

With Datrium DVX, provision or clone new VMs significantly faster and take the guess work out of storage management and tuning. Datrium DVX storage domains are NFS mounted to the Red Hat Virtualization host making it easy to configure and manage virtual machines.

IT organizations can leverage Datrium's GUI to manage and monitor storage performance and latency details at the host or infrastructure levels. Additionally, Datrium's real-time analytics ensure that organizations get robust monitoring, analytics, and simplified troubleshooting.

Seamlessly scale-out compute and storage independently with granular pay-as-you-go consumption model

With Datrium DVX for Red Hat Virtualization, IT organizations can start small and scale-out compute and storage independently. Additional space savings at the compute and storage is realized with Datrium's always-on, in-line deduplication and compression. IT organizations typically experience 2-to-6X data reduction with mixed workloads.

Deploy Datrium DVX on existing or new hosts. With no server vendor lock-in, simply add flash to the hosts to increase application performance with local flash data access as part of the DVX software.

Keep applications and data protected with robust data management capabilities

Datrium DVX is architected for availability. Critical application data is protected from server and storage failures with the dual controller DVX Data Node – even if all Red Hat Virtualization hosts are lost in a DR scenario. Additionally, Datrium Data Cloud capabilities ensure production data is protected on-site and/or off-site with our built-in blanket encryption.

Simplify Management and eliminate the cost and complexity of SAN and NAS-based storage

Datrium DVX for Red Hat Virtualization allow organizations to deploy an agile environment and bring business solutions to market faster. Virtualize any Linux or Windows application with Datrium DVX for Red Hat Virtualization.

Leverage Open Convergence to reduce acquisition costs - take advantage of existing servers or design in new hardware with more freedom and avoid vendor lock-in or forklift upgrades.

Keep operational costs down with effortless setup and management of the solution. Use Datrium's real-time and historical charts to quickly monitor and performance Easily determine resource needs as the application environment grows.

Conclusion

With Datrium DVX for Red Hat Virtualization, businesses can meet their IT goals of better security, improved reliability, and scalability in today's cloud-based business world rather than spending a lot of time managing infrastructure.

Building Red Hat Virtualization data centers should be easy. The compute and storage requirements that an organization chooses for Red Hat Virtualization should not lock them into a vendor. Open Convergence help organizations to achieve better Time to Value than traditional infrastructure approaches while providing better application performance.

For More Information:

Datrium DVX: <http://www.datrium.com/partners/technology-partners/>

Red Hat Virtualization: <https://www.redhat.com/en/technologies/virtualization>