

Veeam + Lenovo ThinkAgile HX Series

The data availability challenge

Many organizations are attempting to undergo digital transformation in an effort to reduce costs, simplify IT, increase business agility and provide a seamless digital experience to end users. The challenge is that legacy IT infrastructure, composed of separate silos of compute, storage, networking and virtualization resources, creates IT complexity, increases costs, reduces business speed and elevates risk.

In addition to deployment complexity, separate silos of infrastructure create multiple layers of management complexity which result in excess time configuring and provisioning application resources across private cloud environments. This consumes valuable administrator time, prevents key IT personnel from focusing on strategic business initiatives and slows down the delivery of new business services to market.

The reliance on manual processes to deploy, manage and scale-out resources across real-time business environments, while maintaining very high levels of application Availability, also creates undue business risk. In fact, 82% of businesses admit to having an Availability Gap, which can lead to lost revenue, loss of brand prestige and loss of trust with customers. Unfortunately, these gaps are often the result of maintaining overly complex legacy IT environments that require extensive care and feeding from an application resource, application Availability and data protection management perspective.

Virtualizing servers and storage can help reduce complexity considerably, but implementing data center-wide virtualization usually requires the use of multiple user interfaces and considerable IT knowledge and experience.

Lenovo ThinkAgile HX Series

Lenovo ThinkAgile HX Series appliances are a best-in-class hyperconverged system with Nutanix's industry-leading software preloaded on Lenovo server platforms. Lenovo HX natively integrates compute, virtualization and storage into a resilient, software-defined solution to run any workload, at any scale and any cloud. Ideal for all virtual applications, HX Series appliances deliver extreme reliability, dependable security, extensive and predictable scalability, simplified management, and faster time-to-value. At the same time, it reduces total cost of ownership (TCO), which enables your IT organization to focus on innovation and deliver value to your business.

When Lenovo HX is combined with the Veeam® Hyper-Availability Platform™, IT organizations gain further operational simplicity, ease of management and Availability, through a highly scalable, agentless solution that enhances availability service levels for AHV, VMware, vSphere, Hyper-V and physical application workloads and data across hybrid cloud environments.

Hyper-Availability for Acropolis Hypervisor

In addition to delivering Availability for VMware vSphere and Microsoft Hyper-V virtual environments, Veeam now supports Availability for all applications and data hosted on Nutanix AHV with Veeam Availability for Nutanix AHV, featuring:

- Simplified and streamlined management
- Minimized data loss
- Reduced recovery times

Webscale engineered private cloud

Through Veeam and Lenovo HX, organizations gain the benefits of a private cloud solution that provides true web-scale capabilities. The Nutanix distributed scale-out architecture allows for the cluster to grow linearly by adding nodes when needed without limits, delivering an immensely scalable, resilient and high-performance architecture. It is able to accomplish this through a 100% software-defined storage solution running on a hypervisor that aggregates the storage and compute performance between nodes, thereby merging these discrete resources into a single tier.

Likewise, additional Veeam resources like backup proxies and storage repositories can be seamlessly scaled-out "just in time" to bolster performance, improve throughput and increase backup data retention to accommodate growing application environments. The combination of Lenovo HX and Veeam enable IT organizations to build a highly elastic, private cloud that grows at the speed of the business to enable digital transformation.

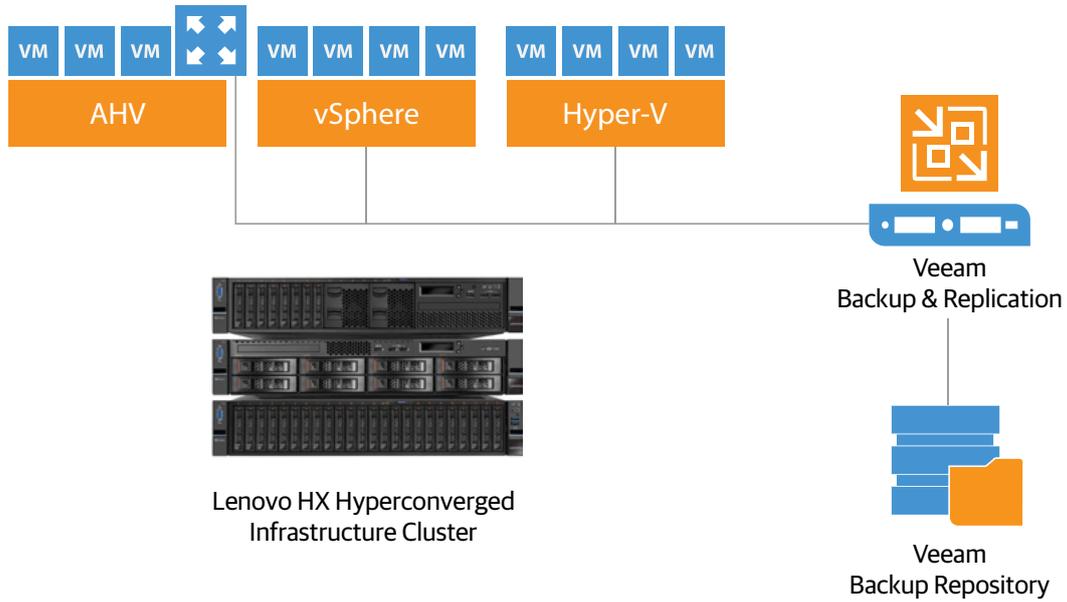
Resiliency and Availability

Hyperconverged solutions require the deployment of highly reliable and highly scalable server platforms that can manage the variable compute and storage demands of mission-critical application environments. Lenovo servers have consistently achieved the #1 reliability rating of all x86 servers worldwide, according to the ITIC 2017-2018 Global Server Hardware and OS Reliability Survey [†]. Not surprisingly, this high reliability – coupled with the ease of use and high performance of Lenovo servers – has consistently resulted in a #1 rating for customer satisfaction in the latest TBR survey [‡].

In addition, Lenovo HX appliances can withstand the failure of an entire node without causing any disruption to production applications. This helps organizations increase Hyper-Availability and mitigate the risk of prolonged business application downtime due to hardware failures.

Veeam compliments Lenovo HX resiliency through Availability features that dramatically simplify the rapid recovery of critical business applications and data. Some of these capabilities include:

- **Instant VM Recovery[®]**: With a few mouse clicks, recover VMs and their associated data in seconds and minutes directly from backup copies to ensure critical application recovery SLAs.
- **Granular Data Recovery**: Veeam Explorers™ for Microsoft SQL Server, Active Directory, Exchange, SharePoint and Oracle provide agentless, granular and rapid recovery of individual objects, files and individual application items from a simple and intuitive web search-engine-like interface.
- **SureBackup[®]**: Verify the integrity and recoverability of all your applications and data through Veeam's Sure Backup feature. 82% of Veeam users are more confident in their ability to meet Availability SLA's due to proactive tools like Sure Backup.
- **On-Demand Sandbox™**: Get a higher return on your investments in Availability and data protection by leveraging Veeam to quickly provision virtual labs that are totally isolated from production to spin up dev/test, user training and DR testing environments.



Hyper-Availability for Lenovo HX

Conclusion

Lenovo Converged HX Series appliances and Veeam help organizations attain digital transformation through a joint solution that provides Hyper-Availability, high performance, web-scale elasticity and increased business agility, while simplifying IT, reducing costs and decreasing data center footprint. Gain a higher return on your IT investments by leveraging Lenovo HX appliances and Veeam to accelerate the time to value for your infrastructure, and create a more seamless digital experience for end users while delivering Hyper-Availability for the Always-On Enterprise™.

[ITIC 2017-2018 Global Server Hardware and OS Reliability Survey.†](#)

[TBR survey.‡](#)

