

Data Protection for ThinkAgile VX

Lenovo + Veeam backup for vSAN deployments

Instant VM restore capabilities and faster non-intrusive backup for VMware environments

Business challenges

For many organizations, IT complexity is the enemy of business execution. Soaring data volumes combined with a proliferation of new business application services contributes to infrastructure sprawl across the enterprise. IT siloes place undue management burden on administrative personnel and often distracts them from focusing on initiatives that are more strategic to the business. Moreover, the complexity of managing and protecting business data puts the business at risk of potential data loss and unplanned downtime. Organizations need software-defined data center solutions that consolidate IT resources into a single, cohesively managed pool of resources that can be flexibly shared across applications to simplify IT, mitigate risk, lower costs and enhance business agility.

ThinkAgile VX Series

Lenovo's ThinkAgile VX, a hyper-converged infrastructure (HCI) solution based on VMware vSAN, consolidates silos of IT compute, storage and networking resources to simplify IT, increase business agility and lower costs. To ensure the availability of critical business applications and data while also maximizing the ROI on HCI, data centers need a solution which provides deep integration across these highly virtualized, software-defined storage environments.

Highlights

- Leverage Lenovo ThinkAgile VX, a flash-optimized, hyper-converged software-defined infrastructure offering with Veeam's® industry leading backup, restore and replication capabilities
- Extensive testing and certifications for vSAN readiness
- Restore entire VMs, individual files and application items in minutes
- Reduce storage and bandwidth consumption with built-in deduplication
- End-to-end AES 256-bit encryption secures backup files and data at the source during backups in flight and at rest



Veeam Availability Suite

Veeam Availability Suite™ is a ready for vSAN solution that provides unique backup and recovery options for Lenovo ThinkAgile VX, allowing the customer to deploy a more integrated, highly efficient and cost-effective High-availability solution.

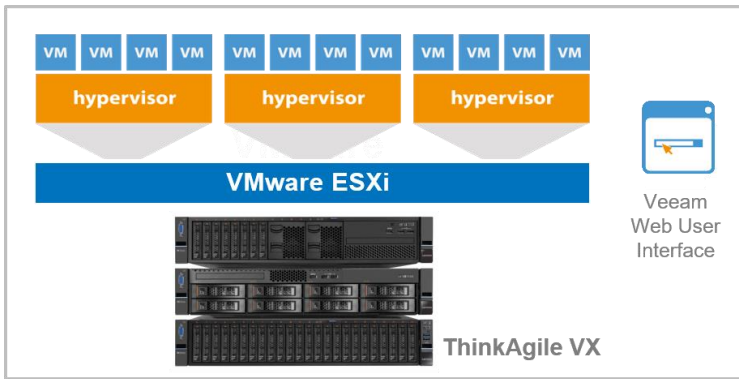
How Veeam helps you leverage investments in Lenovo VX vSAN environments

Built specifically for virtual environments, Veeam Availability Suite operates at the virtualization layer and uses an image-based approach to VM backup. To retrieve VM data, no agent software needs to be installed inside the guest OS, instead Veeam Availability Suite leverages ESXi snapshot capabilities to create a compressed, deduplicated backup file. All backup files created by a job reside in a dedicated job folder on a backup repository. The flexibility in placement of the backup repository makes maintaining backups simple and affordable.

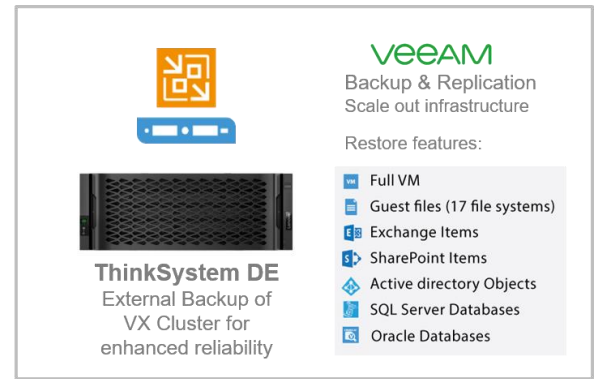
Veeam's smart logic for processing vSAN datastores can leverage a virtual proxy residing on the same ESXi host when using the Virtual Appliance Transport mode where most virtual disk data resides. Veeam Availability Suite obtains information from VMware vCenter about data distribution inside the vSAN datastore — minimizing traffic over the network inside the vSAN cluster by locally retrieving most VM data. There's no need to change backup policies when deploying Veeam on ThinkAgile VX.

Veeam's unified console ensures availability for your entire virtual infrastructure with industry leading features such as:

- Instant VM recovery®
- Ability to expand capacity and performance on demand
- End-to-end AES 256-bit encryption to secure backup files and data at the source, in flight and at rest
- Built-in deduplication and compression to reduce storage and bandwidth consumption
- Granular, application-item recovery
- Replicating a backup image of a VM
- New features that further leverage IT investments in modern storage and the cloud



Backup/Restore



Achieve greater IT efficiencies with Lenovo data management infrastructure

ThinkSystem DE all-flash and hybrid-flash arrays deliver the perfect combination of performance and economics to handle backup copies for vSAN environments, while the ONTAP-enabled ThinkSystem DM-series offers advanced data orchestration capabilities with native cloud-tiering and immutable snapshot technology.

VMs in the protection group are backed up to ThinkSystem DE external storage arrays in the event of a VX Cluster failure, the VMs can be moved to the cloud for execution and continuous service.

For more information

Lenovo is a leading provider of data center infrastructure solutions. We partner with you to identify, design, install and support the solution that best ensures your organization's needs are met throughout the IT lifecycle. Lenovo complements a portfolio of leading x86 infrastructure with a full range of storage, software and comprehensive services that provides excellent performance, reliability and security for your IT environment from the edge to the cloud.

<https://www.lenovo.com/us/en/data-center/software/infrastructure/#>

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