

Complete your converged IT strategy

with Hewlett Packard Enterprise Hyper Converged and Veeam



Key benefits

- **Fast, flexible restores**—Quickly recover what you need in the form you need it
- **Agile replication**—Granularly replicate at the virtual machine level to HPE VSA or any other storage
- **Efficient backup**—Built-in protection reduces backup times and minimizes risk of data loss
- **Visibility**—Virtualization monitoring and capacity planning that maximizes return on investment
- **Simple IT**—A fast, efficient, and agile solution that eases deployment, management, and enables data availability

Increasing user and business expectations force IT to continue to evolve. Keeping up with those changing demands requires huge gains in the efficiency of IT operations. This same demand once created IT sprawl in services and applications leading to rising operation costs and stifling agility and flexibility. To confront these issues Hewlett Packard Enterprise (HPE) pioneered Converged Infrastructure, which consolidated compute, networking, and storage with common management to give power and efficiency back to IT departments. More recently, the rapid expansion of virtualization and increasing demands for more diverse IT services and applications has driven more innovation with HPE Hyper Converged Systems. By adding the virtualization and application layers to the converged solution, these systems are the next evolution for fast, efficient, and agile IT.

Globalization, mobility, and the ever-evolving work day have fueled user expectations of 24/7 access to all applications, data, and services. Any amount of downtime brings loss of worker productivity and ever-increasing financial impacts. The requirement for data backup only as compliance or protection against disaster has expanded into the need to access applications and data at the time needed and in the form that it is needed. Virtualization, snapshot, replication, and other technologies have emerged to meet these needs but often introduce additional complexities and strain on IT resources. Veeam's tightly integrated solution with the HPE StoreVirtual VSA enables aggressive recovery time objectives (RTOs), meets stringent recovery point objectives (RPOs), and improves application uptime resulting in better business continuity and *Veeam Availability for the Always-On Enterprise™*.




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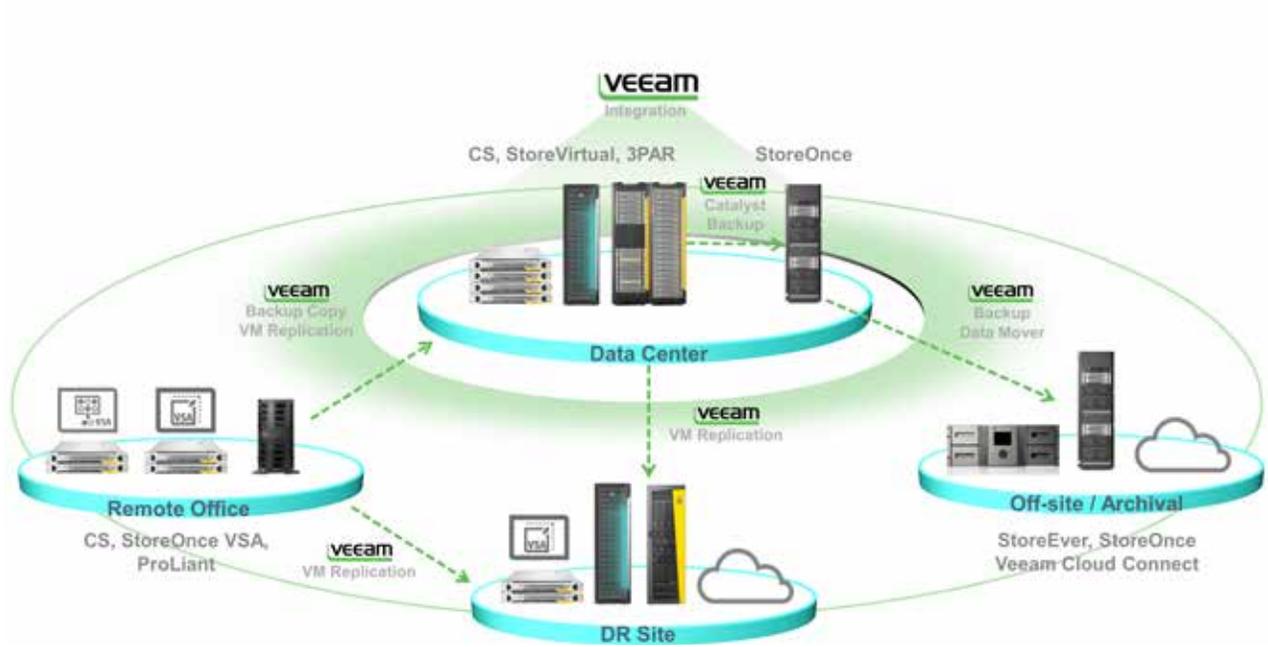


Figure 1: The Convergence of Comprehensive Data Protection

Challenges | Solutions

RECOVERY

Lengthy restore process

- Backups typically lack application-level visibility
- Multi-stage restores can take hours or days, and require manual processes using multiple tools

Single file recovery requests

- 80% of all recoveries are transactional or a single item, i.e., an email, contact, etc.
- IT push back for single (non-critical) item recoveries

Critical application downtime

- RTOs are not met by existing solutions
- Downtime of critical systems is very costly per minute

Built-in protection with StoreVirtual VSA

Efficiency in IT with fast recoveries

- Guest OS and application awareness enables fast recoveries in five minutes or less

Flexibility in the restore process

- More than 47 ways to restore maximizes versatility for any scenario requiring data retrieval, including virtual machines (VMs), OS files, emails, databases, and applications including Microsoft SQL, Exchange, Active Directory, SharePoint, and Oracle

Maximize critical application uptime

- Leverage HPE storage snapshots between regular backups paired with Veeam's instant VM recovery

REPLICATION

Long recovery and failover times from replicas

- Additional recovery times for individual VMs or items
- Failover requires manual IP assignment

Unable to prioritize

- Replication only at the device or volume level
- Utilizes resources replicating non-critical systems/applications

High cost of replication technologies

- Many options require like hardware increasing initial investment and creating a cost barrier
- Replicating non-critical systems/applications creates additional expense in target hardware

Fast failover from replicas

- Single-VM replicas and automated re-IP

Versatility to only protect what is needed

- Replicate at the block or VM level
- VM-level replication allows custom and more aggressive protection schedules of key systems, while deprioritizing less critical systems

Hardware-agnostic replication

- Take advantage of existing storage and server investments for replication targets. Tie in remote site(s) with diverse hardware

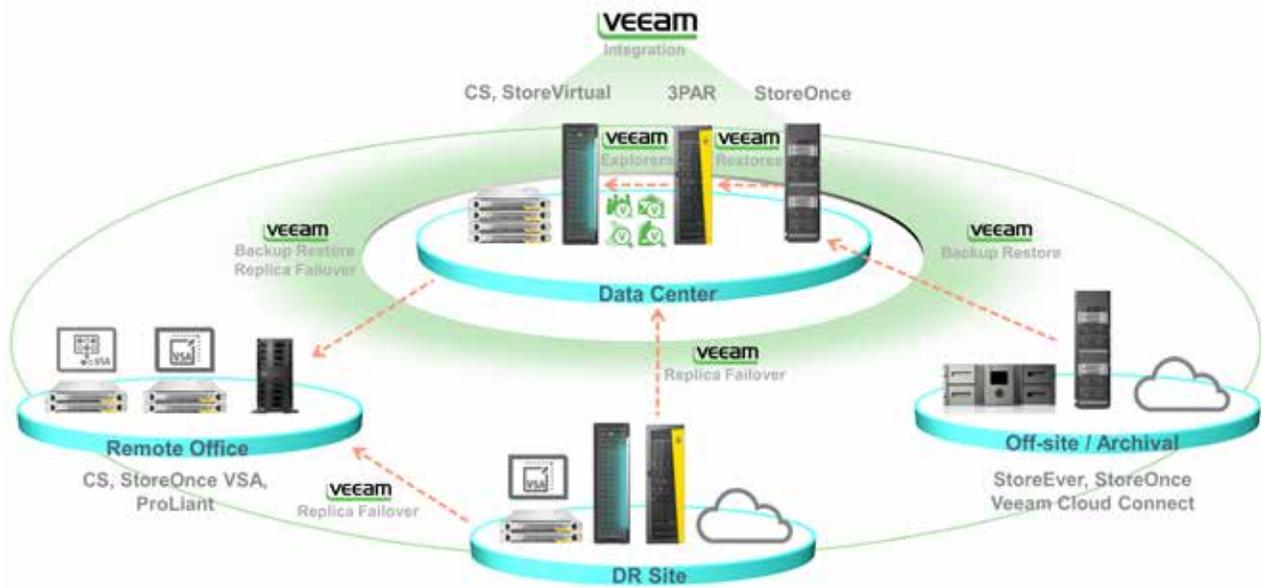


Figure 2: Application and Data Availability with 47+ Ways to Recover

BACKUP

Virtualization workload

- Backup of production systems can impact performance of primary applications
- Transparency of operation

Long backup operations

- Unable to complete backups during allowed backup windows
- Increased risk of backup issues; that is VM stun

Not enough recovery points

- The required resources and time for a complete backup results in fewer available recovery points, recovery options, and a higher risk of data loss

Reduce impact on the virtualization infrastructure

- Leverage primary storage resources
- Veeam is an agentless application

Reduce backup times

- Allows for backup anytime of the day with minimal impact to the running application(s)

Minimize data loss

- Use your storage snapshots for better RPOs

Configuration components

- HPE Hyper Converged System with VMware virtualization software
- Veeam Availability Suite Enterprise Plus **OR** Backup and Replication Enterprise Plus (v8 or 9)
- **Optional:** HPE StoreOnce Backup

Conclusion

Adopting or expanding a converged strategy is a great way to simplify your processes, maximize efficiency of IT, and allow scalability to match your changing business demands. Further increase the benefits of convergence with HPE Hyper Converged Systems by integrating software for different applications. However, even with a converged or hyper-converged solution keeping your applications online, data accessible, and workloads uninterrupted can be a challenge. Snapshot and replication management create demands on limited IT resources and make file, data, and application restoration a lengthy manual process. Complete your hyper-converged strategy by deploying an integrated solution including storage, virtualization, and **data backup and availability software**. By including Veeam, common challenges in data and application recovery, replication, backup management, and application availability are easily resolved, saving many IT cycles.

Learn more at

hpe.com/info/hyperconverge

veeam.com/hp-veeam-availability-solution.html



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