Better data protection for the modern data center

HP StoreOnce Backup with Veeam

"Veeam is designed specifically for virtualized environments," Nick Vega explains. "Since Veeam is optimized for StoreOnce and tightly integrated with 3PAR, it was the ideal solution for our environment. We tried other products and couldn't even get 24 of our VMs backed up. After 48 hours, we just killed the job. The first time we used Veeam and HP StoreOnce, we got all 450 VMs backed up in less than 48 hours."

– Nick Vega, Network Systems Specialist, Roswell Park Cancer Institute

"We can restore a virtual machine in less than 10 minutes using StoreOnce and Veeam—and that's to restore everything, not just the data."

– Jason Kaduk, Information Systems Specialist, Vallejo Sanitation & Flood Control District

In the modern data center, more and more mission-critical workloads are being deployed on virtualized infrastructure, leading to virtual machine (VM) sprawl. Unfortunately, this has created a staggering increase in the amount of backup storage space required, which ultimately results in storage inefficiencies. Sprawling virtual machines and increased data sizes have also caused legacy backup tools to become impractical due to shrinking backup windows, cost, manageability, and lack of performance.

Regardless of these challenges, data protection is a critical business process that just has to be right. HP StoreOnce combined with Veeam can address the challenges facing backup administrators who need to consolidate and improve storage efficiencies while mitigating these symptoms.
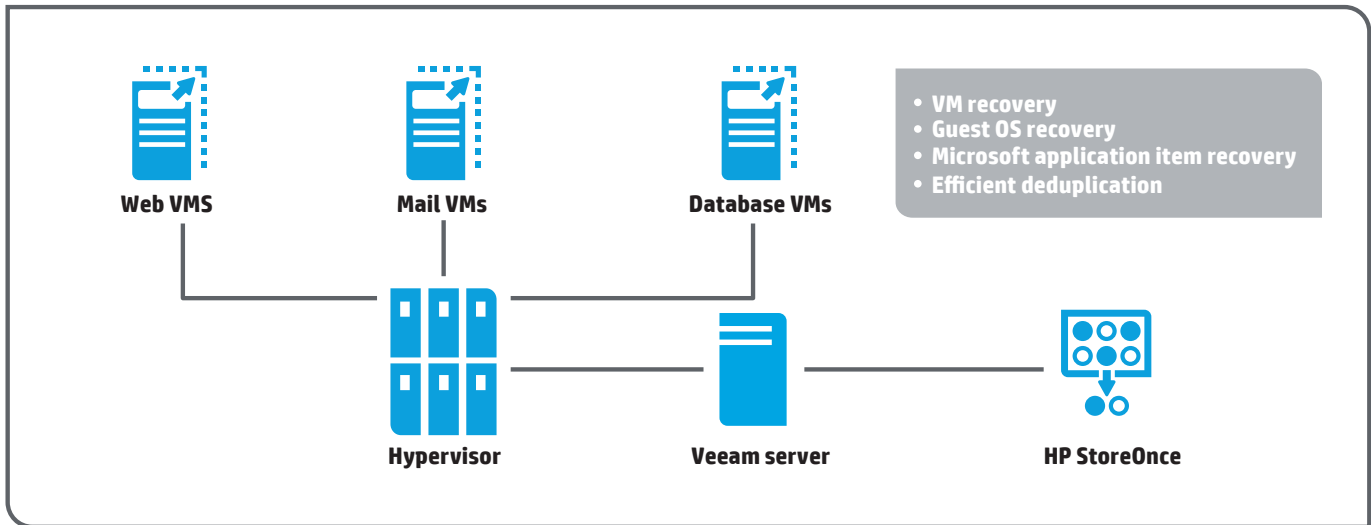
- Backup sprawl—As you add VMs, hosts, and storage you may need to add more backup infrastructure in order to maintain your backup window. This can increase the overhead in running multiple backup processes and managing additional devices.

- Backup overspill—If your backup solution can't complete the backup in time, it may spill over into the working day. This can mean slower system performance for your users, application inaccessibility, or may mean that you have to choose to terminate the backup part way through resulting in incomplete protection.

- Unreliable backup and recovery—Managing virtual machines, backup agents, and planning appropriate backup schedules is by itself a complex task. When you combine the potential for unforeseen circumstances leading to backup failures, you may find your backup—and more importantly, the recovery—isn't as reliable as it needs to be, increasing your exposure to data loss and downtime.

Take a fresh approach

Implement a solution designed specifically for virtualization utilizing a single disk-based backup device and an image-level base backup solution.

IT departments need a data protection solution that:

- Delivers industry-leading performance to meet growing data volumes and shrinking backup windows—Reduce impact on VM workloads without the need for backup agents, and store multiple simultaneous backup streams to a single device at breakneck speeds to shorten your backup window and accelerated recovery to get your data back when you need it the most.

- Keeps pace with data and VM growth by StoreOnce Backup easily scaling out—With HP's StoreOnce pay-as-you-grow design, you can start small and scale up to 2240 TB (raw) or 1728 TB (usable) capacity without any disruption to service; simply add in expansion shelves or couplets on demand. Plus Veeam's simple per-socket licensing structure scales easily to protect all your VMs as your environment grows.

- Lowers your ongoing backup costs—The HP StoreOnce federated deduplication solution provides highly-efficient backup storage reducing the size of data stored on disk. Instead of storing multiple copies of the same data, store only unique data blocks and place a pointer to successive instances. With HP StoreOnce you can achieve up to a 95 percent reduction in your backup footprint, effectively reducing your cost per gigabyte of storage and increasing the number of recovery points.

- Delivers reliability—With the combination of HP StoreOnce and Veeam, you can be confident your backup is reliable and applications are available. HP solutions are uniquely designed with full redundancy and autonomic restart to reduce single point hardware failures.

- Provides restore flexibility—Veeam image level backup allows for fast, efficient, and flexible VM recovery. It also includes granular file or item level recovery for Microsoft applications including Active Directory, SQL, Exchange, and SharePoint without agents.

Web VMS **Mail VMs** **Database VMs**

- VM recovery
- Guest OS recovery
- Microsoft application item recovery
- Efficient deduplication

Hypervisor **Veeam server** **HP StoreOnce**

With HP StoreOnce you can achieve up to a

95%

reduction in your backup footprint.[1]

[1] StoreOnce deduplication ratio from HP internal lab tests has shown 20:1 reduction in data. The results are not typical and the number could vary based on number of factors including data change rate, backup retention etc.

Benefits beyond backup

- Reduces the cost of replication, both on and offsite—Veeam's built-in, VM-centric replication provides highly availably off-site disaster recovery of Tier 1 applications, and HP StoreOnce replication enables you to send deduplicated backup data over lower bandwidth links for a more network and cost-efficient offsite disaster protection. You can now enjoy the complementary benefits of disaster recovery (DR) resiliency for Tier 1 applications, as well as for backup data.

- Instant recovery and better application uptime for HP StoreVirtual and 3PAR StoreServ customers—Leverage your existing or new purchase of HP primary storage for even greater benefits with Veeam's integration of Veeam Explorer for Storage Snapshots and Veeam Backup from Storage Snapshots for the shortest recover point and recovery time objectives (RPOs and RTOs), and fastest backups in the industry. Now you can recover all your data and restore applications in minutes, instead of days or hours significantly reducing any downtime.

Are you ready to overcome the virtualization backup challenge?

Your company wouldn't be without property liability and other key insurance to keep your business going. Don't unnecessarily put one of your most valuable assets—data—at risk either. You never know when or where a disaster will strike, so permit us to understand your environment and propose a solution that improves your data protection across the organization, while reducing complexity and lowering costs.

Insuring your data with HP StoreOnce and Veeam means that you can be confident that your data is protected, recoverable, and readily available, allowing you to meet stringent backup windows, while reducing your management overhead, complexity, and cost. It seamlessly integrates into your virtual environment allowing simple, agentless deployment along with reduction and consolidation of storage.

To learn more contact your certified HP or Veeam partner.

Learn more at
hp.com/go/burasolutions
hp.com/storage/dataagile