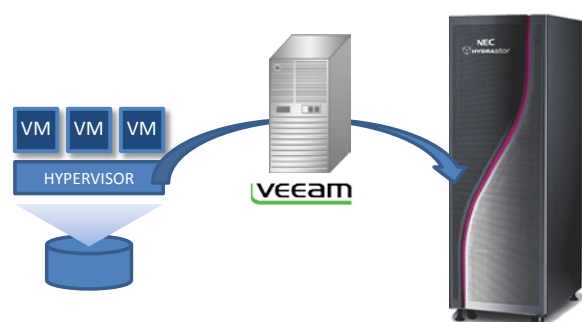Backup and replication for virtualized environments

Data Protection for Virtual Machines

At a Glance

- Simplified VM backup & optimized storage management

- Advanced data protection & Instant VM Recovery for business continuity

- Storage investment protection for virtualized environments

Overview

NEC, a leading global IT solution provider, and Veeam Software, an innovative provider of VM data protection and management, present a VM backup and business continuity solution for growing virtualized environments. This offering from NEC and Veeam® delivers a cost-efficient, high performance and reliable VM backup and replication solution for VMware vSphere® and Microsoft Hyper-V® virtual environments.

By leveraging deduplication features of NEC HYDRAstor® grid storage system and Veeam Backup & Replication, storage-capacity usage and network traffic are significantly optimized. Further, HYDRAstor's RepliGrid WAN-optimized Replication ensures only unique data is transferred to the disaster recovery (DR) site, resulting in minimum data transfer and quick VM recovery at the DR site.

Solution

Simplified VM backup and optimized storage

With the ever-increasing number of VMs and growing number of virtualized environments, simplifying VM data backup and optimizing backup storage capacity are becoming more significant. NEC HYDRAstor grid storage system and Veeam Backup & Replication enable fast-expanding VM data to be condensed by data deduplication and compression at either the Veeam backup server, HYDRAstor, or both. HYDRAstor's global deduplicatoin can lower storage capacity consumption by 95% or more and shrink backup windows considerably while Veeam provides a centralized management to control all VM infrastructures for backup purposes simplifying backup management for end user. Customers can choose the most efficient deduplication option for their server workloads and data types.
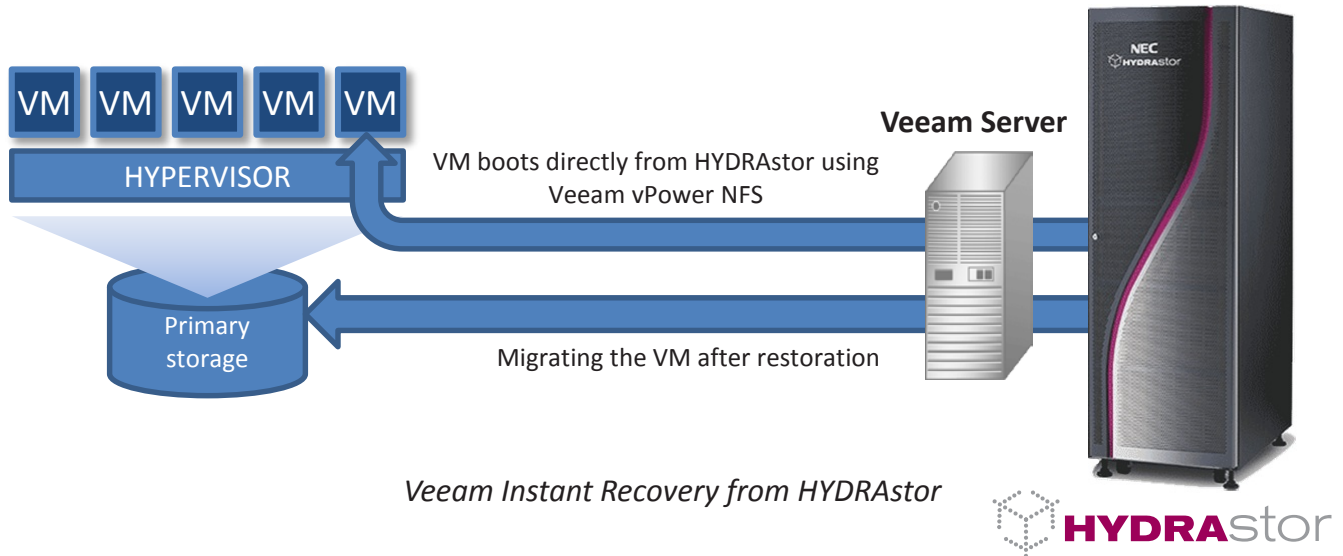
Veeam Backup & Replication provides an effortless way to manage VM infrastructure backup responsibilities, and it can easily configure HYDRAstor as a backup storage destination. HYDRAstor virtualizes and utilizes all its available resources and automatically allocates storage capacity as needed with auto-provisioning technology.

Advanced data protection and Instant VM Recovery for business continuity

High availability of VMs and rapid disaster recovery are two desirable features for business continuity. HYDRAstor's advanced erasure-coded data resiliency ensures data reliability, delivering greater protection and faster rebuild than traditional RAID with less capacity or processing overhead. HYDRAstor can tolerate up to 6 concurrent disk or node failures while maintaining normal I/O, and offers flexible protection level configuration on a per filesystem granularity. In the event of a disaster, Veeam's instant VM recovery can quickly make a VM available by booting it directly from HYDRAstor storage and migrating the VM to primary storage once restoration is complete. This ensures the downtime is minimal and desired VM is available to use without first recovering it to primary storage.

Storage investment protection for growing virtualized environments

Data growth in virtualized environments requires storage infrastructure expansion from time-to-time, including storage assigned specifically to backups. HYDRAstor's scale-out architecture delivers investment protection, while also keeping up with data growth by allowing non-disruptive node additions in existing systems. A HYDRAstor system can start as a single-node appliance and can be expanded by additional Hybrid or Storage nodes as and when more capacity or performance is required. HYDRAstor also supports intermix of nodes from multiple hardware generations, enables in-place technology refresh and maximizes investment protection without forklift upgrade or downtime.

Veeam Instant Recovery from HYDRAstor

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