



HyperIP Delivers Performance Boost to Veeam Backups



Challenge

Optimize and accelerate backup and replication over a WAN, despite latency issues

Solutions

- HyperIP® for VMware and Veeam Backup & Replication™

Results

- Doubles speed of full backup
- Boosts performance significantly
- Extends functionality of VMware

The Business Challenge

Members of the IT team at Veeam Software experience many of the same challenges as their counterparts in other virtualization and cloud computing environments. One of these challenges is backing up and replicating data over a wide-area network (WAN) that spans a great distance. In this case, the WAN covers roughly 5,000 miles, linking Veeam offices in the United States with offices in Europe.

Since the network latency between the offices is roughly 150 to 250 milliseconds, resulting in unnecessarily long full backups, the IT team conducted an experiment. Veeam team members had less than 50 hours (from late Friday evening to early Monday morning so they wouldn't interfere with employees' work) to back up a 20-gigabyte virtual machine from one office to the other. Obviously, they used Veeam Backup & Replication.

After 47 hours, only 16 gigabytes had transferred (at an average speed of 100 kilobytes per second). Since that was not an acceptable timeframe, Veeam team members decided to optimize the WAN using NetEx's HyperIP for VMware WAN optimization software.

The NetEx/Veeam Solution

Veeam's IT team experienced significant success. A full backup of that same virtual machine took 30 hours (at an average speed of 193 kilobytes per second). That's almost two times faster, thanks to HyperIP. An incremental backup conducted the next day lasted only 54 minutes.

HyperIP software is a virtualization-ready WAN solution, ideal for moving large data sets securely, swiftly, and seamlessly. It accelerates and optimizes backup and replication applications while mitigating network latency, packet loss, and network disruptions for long-distance transmission control protocol (TCP) data transmissions.

HyperIP supports long-distance data transfers at up to 800 megabytes per second, which is 25 to more than 100 percent faster than competing products. Transfer speed is optimized for the full range of data management applications, including backup & remote replication and business continuance/disaster recovery.

The Results

Doubles speed of full backup - When data or virtual systems must be transferred over a WAN, Veeam finds that HyperIP delivers a significant performance boost. The company's IT team discovered that a full backup of a 20-gigabyte virtual machine was two times faster when HyperIP was in place.

Boosts Performance Significantly - HyperIP aggregates multiple data replication applications over a shared WAN connection, shielding against packet loss, jitter, congestion, and other network disruptions. It also reduces the impact of high-latency networks for remote TCP/IP data transmissions.

Veeam Partner NetEx



Company

Formed in 1999 as a spin-off of Storage Technology Corporation (StorageTek®), privately-held NetEx provides the world's fastest WAN optimization software in the industry, along with guaranteed data delivery. As a VMware Technology Alliance Partner, NetEx's VMware Ready HyperIP WAN optimization software is leading the way in demonstrating impressive performance results for supercharging VMware applications worldwide.

NetEx works with more than 100 of the world's largest and most sophisticated organizations, including some of the most prestigious providers of financial, transportation, government, and telecommunications services. Customers include Woodgroup, VISA, U.S. Department of Defense, BP, Telstra, NTT, Royal Bank of Scotland Group, Lloyds TSB, NDC Health, the IRS, and many others. For more information about NetEx, NetEx/IP or HyperIP, visit www.netex.com.



Extends functionality of VMware - NetEx and Veeam have a common goal in ensuring performance and reliability of VMware data protection and disaster recovery. Since network conditions can sometimes result in lengthy backups, the combination of Veeam Backup & Replication and HyperIP for VMware ensures organizations can transfer data between locations securely, swiftly, and seamlessly.

About Veeam Software

Veeam Software, a premier-level VMware Technology Alliance Partner and member of the VMware Ready Management program, provides innovative software for managing VMware vSphere 4 and Virtual Infrastructure 3. Veeam offers an award-winning suite of tools to assist the VMware administrator, including #1 for [VMware backup](#): Veeam Backup & Replication; Veeam Reporter, for [VMware documentation](#), change management, and capacity planning; Veeam Monitor, for [VMware performance monitoring and alerting](#) across multiple vCenters; and Veeam Business View, a free add-on that works with other Veeam products to [provide business categorization for the VMware vSphere](#) environment. With its acquisition of nworks, Veeam's products include the [nworks Management Pack](#) and the [nworks Smart Plug-in](#), which incorporate VMware data into enterprise management consoles from Microsoft and HP. Learn more about Veeam Software by visiting www.veeam.com.



To learn more, visit: www.veeam.com

