



Microsoft Windows 2008 Hyper-V R2

Melio Virtualization Suite provides a high performance, scalable single LUN storage solution that supports Live Migration on Windows Server 2008 Hyper-V R2. This suite is available for \$249 per host server. Melio Virtualization Suite has no volume or file size limitation, supports high I/O workloads, and can support up to 256 host servers in a cluster. It provides VSS-based snapshots of the entire file system or individual VHDs, as well as policy based file and snapshot copy and migration capability. The Suite is easy to deploy and is fully compatible with SCVMM 2008 R2.

Melio virtualization suite can be upgraded to Melio Data Center, which provides advanced enterprise file system features, including storage I/O reporting and per-VM quality of service management, dynamic volume expansion and RAID 1, and the capability to remotely configure and assign logical volumes.

Melio Data Center Edition also includes licenses for virtual machines, which can be used to provide concurrent shared access to application data on a shared LUN from multiple Hyper-V guest servers, and to remotely configure and assign logical volumes for Hyper-V guest servers. Shared SAN storage access is maintained even if the guest servers are migrated among hosts. Shared access to application data from guest servers provides improved application availability, since multiple application servers have access to a single copy of the data. Shared access to application data on the SAN can also enable scale-out of applications like web serving or file serving. For example, if a data center has a virtual web server accessing active content on a SAN volume, web serving capacity can be easily increased in response to a traffic spike by adding additional virtual web servers accessing the content on the shared SAN volume. There is no need to provision additional storage volumes and replicate data.

Citrix® Provisioning Server™

Citrix Provisioning Server virtualizes the workload of a datacenter server or the desktop – operating system, applications and configuration – and streams the workload on-demand to the desktop or the physical or virtual servers from the network. Sanbolic's Melio Professional, Enterprise, or Data Center product suites enable high availability for Citrix Provisioning Server by providing a shared LUN accessible to multiple Provisioning Servers, where VHD files and the configuration database is stored. This allows failover and load balancing among Provisioning Servers. Sanbolic's software can be used to provide HA functionality for Citrix PVS whether deployed on physical servers, on XEN Server guests, on Hyper-V guest servers, or on ESX guest servers.

VMware ESX

VMware has a proprietary file system, VMFS, to provide shared access to the SAN storage LUN for the virtual machine files when using Live Migration. However, VMFS cannot be used to provide concurrent shared access to application data on a SAN LUN from the guest servers. Melio Data Center Suite can be used to provide shared access to application data from ESX guest servers. Similar to the solution described for Hyper-V above, this provides new options for application availability since there are multiple paths into the application data. It also enables shared-data scale out virtual machine clusters with applications like file serving or web serving, and improves performance of nested applications.

VMware Server

VMware Server is often used in smaller VMware deployments. It does not support Live Migration, and cannot be used with VMFS to provide a shared SAN LUN for virtual machine files. Melio Virtualization Suite is a cost-effective solution to provide VMFS-like functionality for VMware Server. By storing all virtual machine files on a shared LUN accessible to all host servers, Melio provides VMware Server users a solution for providing simple and fast migration of guest machines across hosts.

Evaluation software is available at www.sanbolic.com

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