



# sanbolic

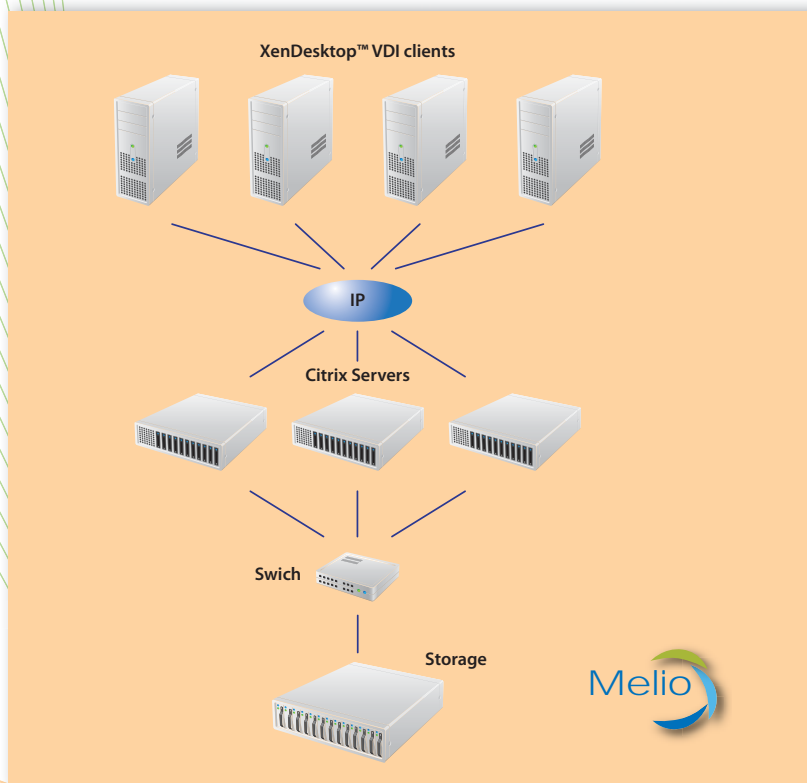
The Leader in Storage Software for Virtual and Cloud Computing

## High Availability and Scale Out for Citrix XenDesktop

Dynamic provisioning has now been incorporated as a key feature in the Platinum bundles of Citrix XenServer and XenApp, and in the Enterprise and Platinum bundles of XenDesktop. The Provisioning Services streaming technology provides a very efficient method for provisioning Citrix applications. Using multiple Provisioning Servers provides scalability and eliminates the risk of a single points of failure, but requires that all Provisioning Servers have access to the same images. Melio 2010, when used in conjunction with industry standard SAN storage, provides a highly available and scalable shared storage platform for dynamic provisioning in Citrix deployments.

Citrix Provisioning Services can run on any physical or virtual Windows server using Melio 2010 and any industry standard shared storage. Because the Provisioning Servers access the same images on a Sanbolic volume, the sessions can failover between servers, eliminating a single point of failure. Sanbolic's Appcluster, which is component of the Melio Data Center suite, further enhances availability by clustering of the SQL server configuration database utilized by Provisioning Servers. Melio 2010 allows PVS-based solutions to scale out very quickly and seamlessly by adding more PVS Servers and/or storage resources on the fly. This provides a cost-effective growth path to meet increasing I/O demands.

Melio 2010 now includes distributed snapshots and policy based snapshot migration capability, giving customers flexible options for backing up the Provisioning Services volumes. In a XenDesktop deployment hosted on Hyper-V, Melio 2010 provides a high scalable unified shared storage platform for the Hyper-V hypervisor, Provisioning Services, and user data on virtual machines.



- Provides PVS Servers with block-level access to VHDs and device write cache files, improving system performance and allowing virtual solutions to scale out quickly and easily without experiencing the locking contention issues incurred by CIFS and NFS in larger environments
- Adds scalability by allowing additional PVS Servers to join a server farm quickly and seamlessly, without any downtime
- Offloads storage operations from the LAN to allow separate data paths for storage and application traffic, improving the performance and scalability of PVS-based solutions
- Enhances the resiliency of Citrix technologies deployed using Provisioning Services by providing multiple paths to virtual workloads (VHDs) stored on a single shared volume
- Increases storage efficiency-no need to replicate volumes
- Supports VSS-based snapshots of shared volumes, offering data protection for VHDs and device write cache
- Allows SQL Servers to be clustered to ensure high availability of PVS databases
- Allows administrators to perform updates (OS, anti-virus, drivers, applications, etc.) on VHDs without having to copy them to other servers or volumes, simplifying management of VHDs



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