



Data Center and Storage Simplification and Disaster Recovery

Shiloh Industries is a leading automotive supplier with multiple locations in the Midwest. The company recently implemented improved disaster recovery architecture for their Ohio data center, with two secondary data centers located 60 and 150 miles away.

The main data center is running a range of Windows applications and NetWare file/network services on Virtual Servers. Melio FS and LaScala have been deployed across the core data center. Melio FS clustered file system provides active-active access to multiple servers to a shared volume on the iSCSI storage, facilitating fail-over among the virtual and physical servers. Replication across the data centers is done using utilities on the iSCSI storage system. The architecture with LaScala Volume Manager provides a highly available yet cost effective and easy to manage solution for local and remote fail-over capability while serving the goal of consolidating services on fewer servers.

Data Mining

The Dutch Government consolidates information from outside companies and writes it onto the central storage where Melio FS allows 15 investigators to simultaneously review and analyze the data. The use of Melio FS allows centralized data mining and back up, and eliminates the need to replicate data for each investigator.

Security

A well known game developer is using Melio FS in their gaming division development group. A Melio FS shared SAN is then split between internal and external NAS heads, so that the development team and the outside testers can share data and projects in a protected NAS environment and only interact through the SAN without having any exposure to network or system intrusion. Melio FS capability to run in band or out of band communication is critical in this type of deployment.

Streaming Media, VOD

Miami Dade College established in 1959, is a multi-campus community college with six campuses and numerous outreach centers, Miami Dade is nationally recognized as one of the largest and best community colleges in the USA. Melio FS allows Miami Dade College to make their entire video library available on the campus network through a number of streaming servers accessing a shared SAN. The shared SAN is the central depository of all of the college video and multimedia archives. In addition, by using Melio FS, Miami Dade were able to deploy a real time encoding system, while providing instantaneous access to the content being encoded to the streaming servers.

Broadcast Over IP

Tokyo Electric Power Co. (TEPCO) provides high-speed broadband network services to households and PoweredCom provide the content distribution service. TEPCO and PoweredCom use LaScala and Melio FS in their high availability content delivery system. LaScala is used to stripe across multiple RAID controllers and provide the aggregated bandwidth into the content delivery servers. Melio FS then allows each servers to stream the content of data from the shared storage and also provides a transparent failover in case of server failure - delivering uninterrupted viewing experience to the end user.

Scalable NAS

James W. Sewall Company, founded in 1880, provides services in geographic information management for municipal government, utilities, and the natural resource industry.

Sewall utilizes Melio FS and LaScala to aggregate storage resources and then presents a single file system to a number of Windows 2003 Storage server NAS heads. The NAS heads then present the data to a number of ArcGIS application servers for data analysis. The solution also utilizes Microsoft DFS which is deployed in front of the NAS servers so that it provides transparent fail over and load balancing.

High Availability Diskless Clients (Ardence Installations)

This solution developed by Sanbolic and Ardence utilize Melio and LaScala to create a high availability architecture for a diskless PC client solution. SAN-connected servers stream the operating system, applications, and user data to diskless PC clients and/or servers for local processing. Users can leverage their existing storage area network (SAN) and desktop PC investment. The solution improves data security, and allows centralized management of the operating system and applications, reducing support costs. It also allows PC clients and servers to quickly and easily be repurposed to support changing business needs. The solution has been deployed at several major government facilities including national labs.

Post Production (HDTV)

Voom HD networks, one of the leading high-definition entertainment divisions introduced a new HD 24-hour news channel which required an advanced video editing and storage solution to be successful.

The SAN using Melio FS and LaScala provides the bandwidth and performance needed for this new channel. Editors can quickly retrieve, share and store large, uncompressed video files in high definition digital TV (HDTV) format. LaScala stripes across multiple RAID controllers for accumulated throughput of over a Gigabyte per second. The workflow is greatly improved and the production of news clips and promotional content accelerated.

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