



## Swaziland's Largest Hosting Company uses VMWare Server and Sanbolic Melio File System for a Resilient and Flexible Data Center Architecture

Real Image Internet (Realnet) was founded in 1991 and provides hosting services to 75% of all websites in the Kingdom of Swaziland. Real Image's web sites have become the primary source of information about Swaziland on the Internet.

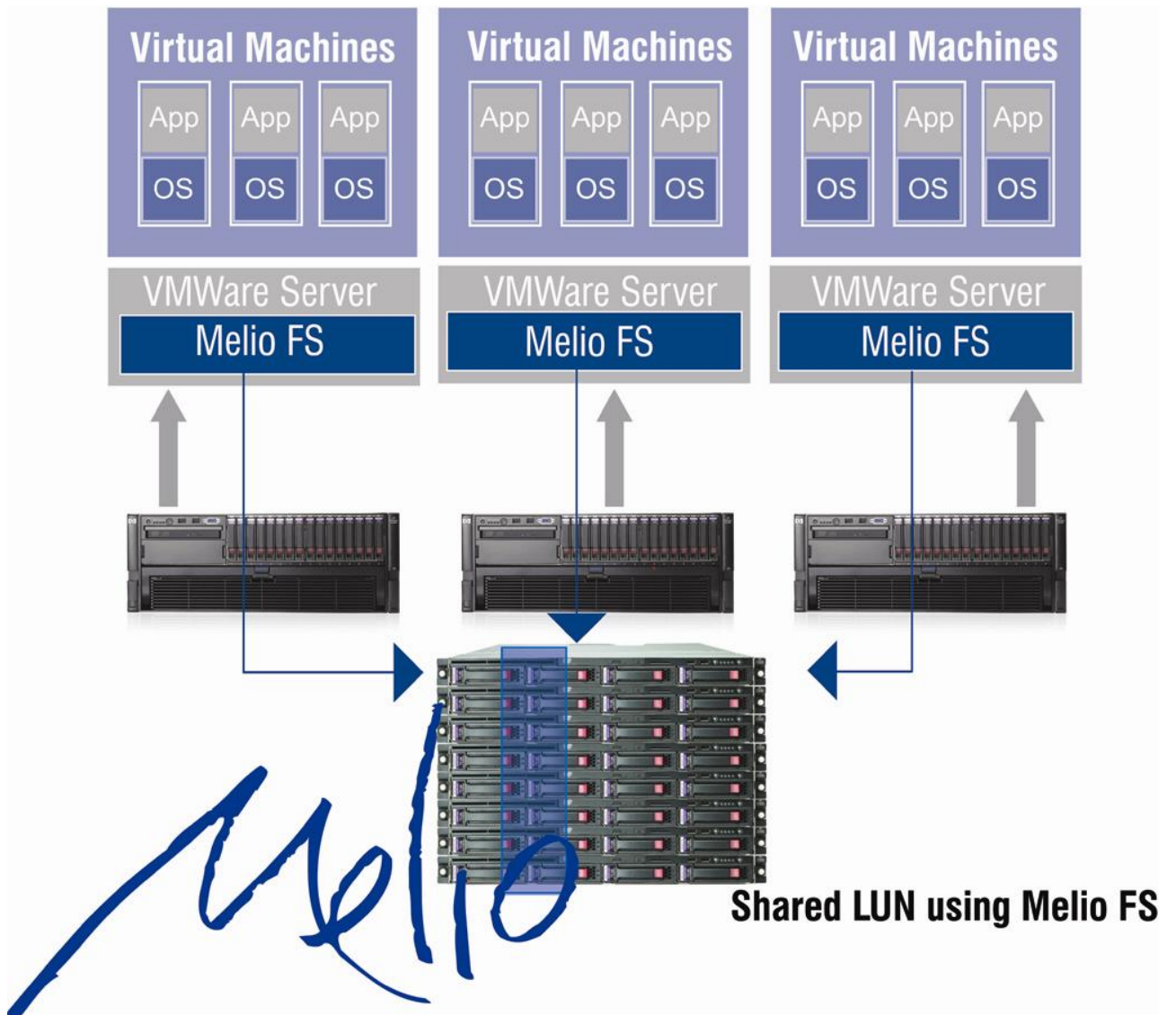
Currently 90% of all Government ministries and departments source Internet service from Realnet. In addition, many of Swaziland's major companies and organizations source website and content management solutions from Real Image. Representative clients include Swaziland Water Services Corporation, Swaziland Sugar, Swaziland National Sports Council, Waterford Kamhlaba, Swaziland Royal Insurance, Swaziland Breweries, and the United States Embassy and Cultural Centre.

Realnet introduced server virtualization into its architecture using VMware Server. The primary objective was to build greater redundancy and resiliency into its services and to more flexibly spread workloads across equipment. Realnet decided to use Windows 2003 R2 servers running VMware Server 2.0. The servers are connected to HP fibre channel SAN storage.

VMware Server provides an excellent tool for consolidating multiple applications onto a physical server using virtual machines. But unlike VMware ESX, it cannot utilize VMware's clustered file system, VMFS, to storage all of the virtual machines files on a single SAN LUN. Hence, migrating virtual machines from physical host to physical host requires copying the virtual machine file across the network, which can be quite time consuming.

Ali Resting, the managing director of Realnet, wanted the ability to easily migrate virtual machines between physical hosts for availability and load balancing. He contacted Sanbolic, which provides a clustered file system that can be used with VMware Server to provide a shared LUN on the SAN storage for all of the virtual machine files. Since all host servers have active-active access to all virtual machine files, each virtual machine can be started on any of the hosts, and easily moved between hosts.

"VMware Server provided us with a cost effective solution to virtualizing our infrastructure," said Ali Resting. "Sanbolic's Melio clustered file system allowed us to add the high availability and flexibility typical of enterprise class distributed virtualization solutions. This provides us with a very efficient infrastructure that can easily be expanded to meet the growing hosting and content management needs of our customer. We expect to double the size of the installation over the next year"



### Solution Components

HP Proliant DL380 and HP DL580 Servers

HP MSA 2000 Fibre Channel Storage

VMware Server 2.0

Sanbolic Melio File System

Sanbolic LaScala volume manager.

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