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## CPIO Deploys Hyper-V for Hosting Solutions Using Sanbolic's Kayo Clustered File System

Based in the West Midlands, U.K., CPIO is a Microsoft Gold Partner that focuses on providing IT solutions to the manufacturing, automotive, engineering and general business sectors. Its expertise ranges from delivering powerful end-to-end Enterprise Resource Planning and Customer Relationship Management solutions to innovative infrastructure redesign projects. CPIO serves over 400 clients in major industry sectors including manufacturing, distribution, automotive, plastics & rubber, and the service sector, as well as in niche markets. Clients include the Victoria and Albert Museum, Siemens, Lloyds TSB and Green & Blacks.

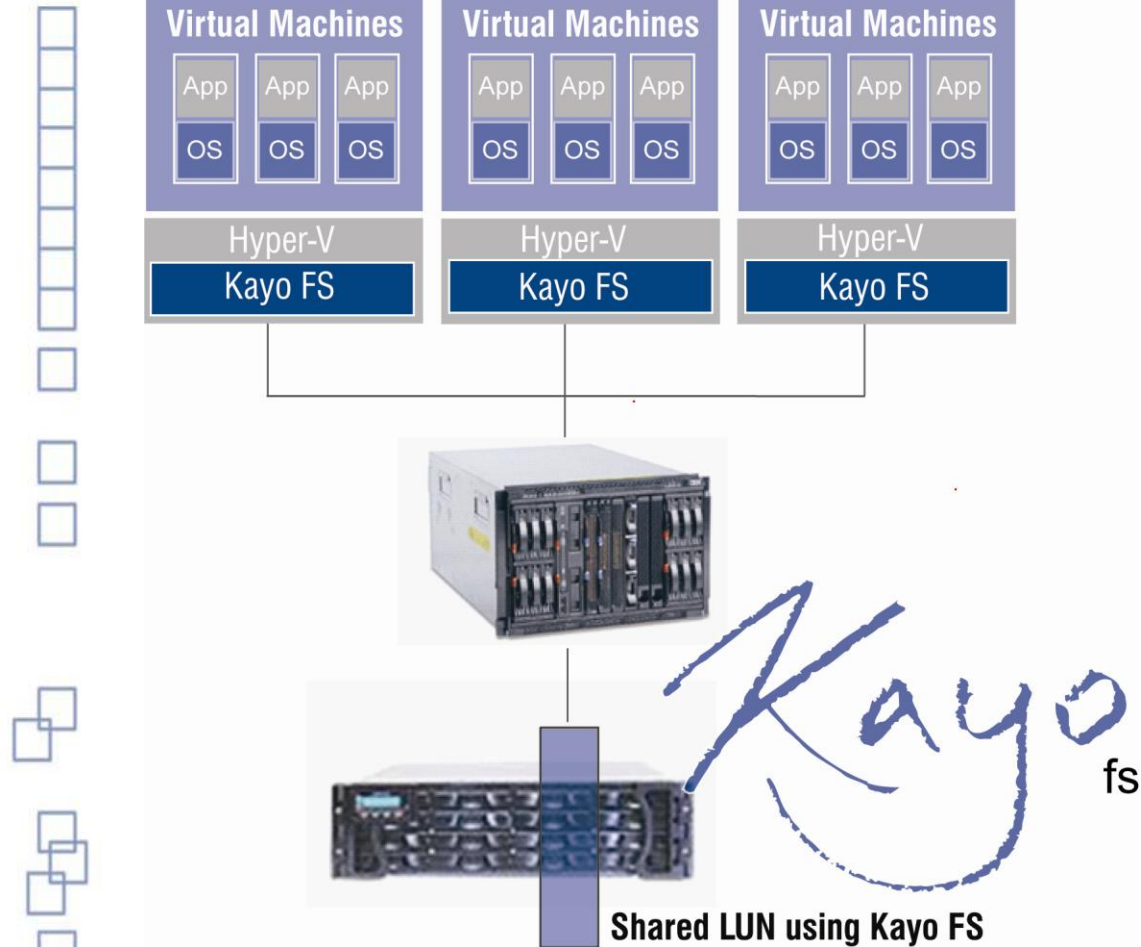
CPIO provides hosted infrastructure to support their customer's ERP and CRM deployments. This is sold as a service on a per user and per month basis, which enables customers to limit the capital requirements for ERP and CRM solutions. Server virtualization was deployed this year to ensure availability of services across servers. CPIO chose to deploy the hosted infrastructure on Hyper-V using IBM Blade Servers and Infortrend SAN storage.

The virtual server deployment also used Sanbolic's Kayo clustered file system to enable all of the Hyper-V host servers to access virtual machines files on a shared SAN LUN. In order to move virtual machines independently among physical hosts using Quick Migration, native Hyper-V requires that each virtual machine have a separate storage LUN on the SAN storage. Provisioning and maintaining large number of storage LUNs can add operating cost and reduce storage utilization. Kayo FS allows all virtual machines to be stored in a single LUN, while providing high performance shared access to the SAN storage LUN from all Hyper-V hosts. This enables virtual machines to be moved independently among physical Hyper-V hosts, while greatly simplifying storage provisioning and management.

"We are in a scenario where we are delivering lots of images. We deliver the entire customer's end to end solutions out of our own data center. Without a clustered file system I would have an expensive SAN sitting out back and lots and lots of LUNS which wouldn't make very good use of my storage capacity. That is where Kayo comes in."

"Kayo gives us all the right answers. It allows us to seamlessly and easily provision new virtual servers without worrying about storage modifications. We can add as many images as we want without provisioning complex LUNS. Having all of the virtual servers sitting on the single disk volume makes failover easy and more importantly it makes management of the entire system extremely easy."

James Bedford – Technical Manager - CPIO limited UK



## Solution Components:

- IBM Blade Center using HS 21 blades
- Windows 2008 x64 Enterprise with SP2
- Hyper-V 2008
- Infotrend fibre channel SAN storage (model)
- Storage Switch
- Sanbolic Kayo FS.

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