

Server Virtualization with Advanced Management

Server Virtualization with Advanced Management (SVAM) provides guidance for deploying Windows Server® 2008 with Hyper-V™ technology and Microsoft® System Center Virtual Machine Manager 2008.



SVAM provides the ability to maintain the same operating system and application configurations that you have today, without the cost, space, and power utilization of physical servers.

This offering also includes guidance for Server Consolidation, Centralized Policy-based Management, Business Continuity, Disaster Recovery, Branch Office, and Virtual Desktop Infrastructure.



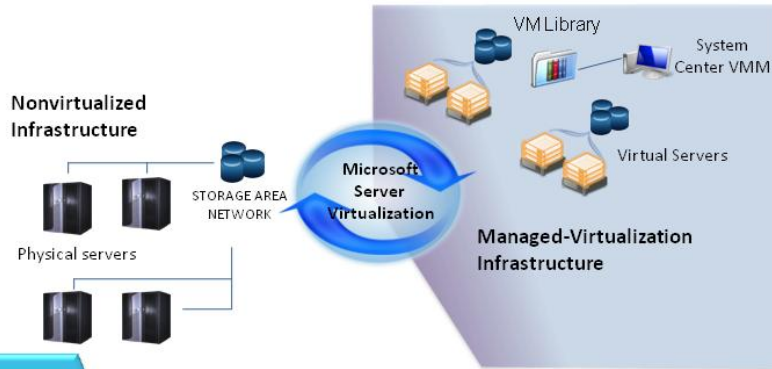
Solution 1: Server Consolidation and Provisioning

Description and benefits

What Is It?

The necessary technology, architecture, and training to consolidate physical servers using virtualization. This solution is based on:

- Windows Server® 2008 R2
- Windows Server Hyper-V™ R2
- System Center Virtual Machine Manager 2008 R2



Business Impact

Fewer Physical Servers Needed

- Reduced capital expenditures
- Lower cost of future infrastructure growth
- Data center space savings
- Reduced cooling and power costs

Consolidated Infrastructure

- Manages virtual and physical infrastructure from a single console
- Frees IT resources to focus on service-level and strategic projects
- Decreases cost to provision and move virtualized assets

KROLL Factual Data

Company Size: 300 employees
 Industry: Personal services
 Country or Region: United States

- Reduced physical servers from 650 to 22
- Reduced energy usage by 90%
- Saves \$442,554 in energy costs annually

Solution 2: Centralized, Policy-Based Management

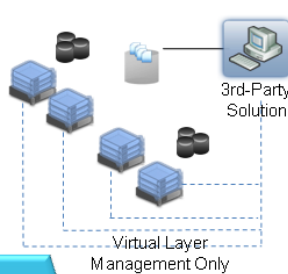
Description and benefits

What Is It?

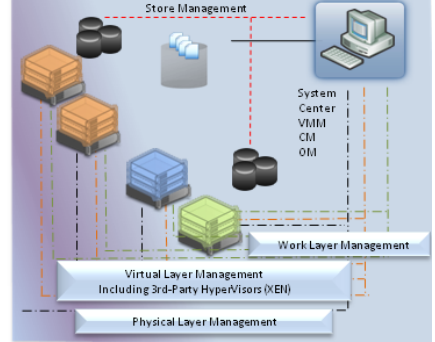
The necessary technology, architecture, and training to implement a centralized physical and virtual management toolset. This solution is based on:

- Windows Server 2008 R2
- Windows Server Hyper-V R2
- Virtual Machine Manager 2008 R2

3rd Party Virtualization Infrastructure Management



Microsoft Centralized, Policy-Based Management, Including Virtualization Infrastructure



Business Impact

A Unified Management Toolset Means:

- Simplified management through a single console
- Management of both physical and virtual environments with fewer resources
- Rapid deployment of server to respond to business need
- Management of third-party virtualization (VMware)

PRO and Intelligent Placement ensures:

- Ensures uptime by automatic performance recommendations that reduce maintenance time and costs
- Ensures that IT resources are provisioned and optimized automatically based on policies
- Reduces server downtime



Company Size: 130,000 employees
 Industry: Retail
 Country or Region: United States

- Reduced physical server count by 90%, decreasing management complexity and costs
- Lower data center management costs generate "biggest" competitive advantage
- Set up test and development systems faster

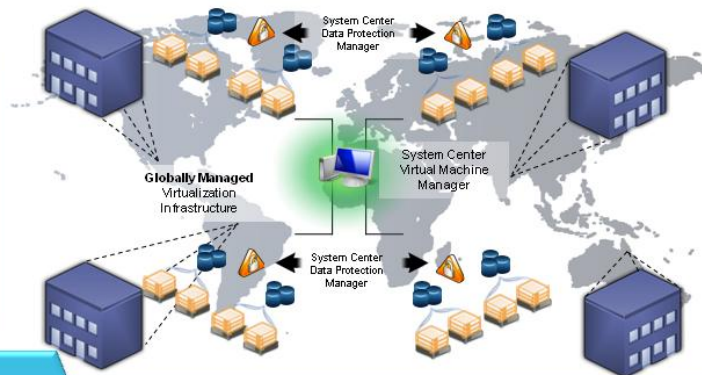
Solution 3: Business Continuity/Disaster Recovery

Description and benefits

What Is It?

The necessary technology, architecture, and training to implement server virtualization as part of a disaster recovery solution. This solution is based on:

- Windows Server 2008 R2
- Windows Server Hyper-V R2
- Virtual Machine Manager 2008 R2
- System Center Data Protection Manager 2007



Business Impact

- Compartmentalization prevents workloads from affecting each other
- Easy virtualization backup prevents loss of data
- Virtualization of workloads allows easy movement and replication
- Streamlined management decreases IT costs
- Reduced downtime increases productivity of end users
- Virtualized backup systems restore systems significantly more quickly



Kentucky Department of Education

Company Size: Support 700,000 users
 Industry: Education K-12
 Country or Region: United States

- Maintain uptime for schools with server rooms in storm areas and server rooms that lack air conditioning
- Created low-cost virtual-machine redundancy that automatically moves to prevent interruption to education
- Reduced data center space by 50%

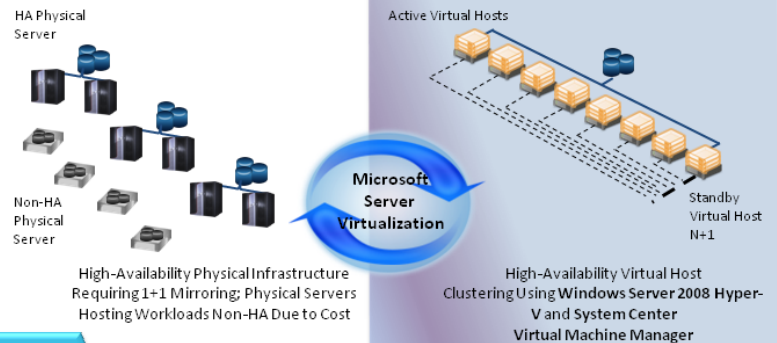
Solution 4: High Availability Using Virtualization

Description and benefits

What Is It?

The necessary technology, architecture, and training to maximize the availability of an IT infrastructure. This solution is based on:

- Windows Server 2008 R2
- Windows Server Hyper-V R2
- Virtual Machine Manager 2008 R2



Business Impact

- Automatic, subsecond failover of resources with no impact to end users
- Lower cost of failover systems
- Leveraging failover as part of maintenance activities prevents downtime and impact to productivity
- Increased uptime ensures that services are available when needed
- Server loads are optimized to ensure best performance



CHU de Rennes (University Center Hospital)

Company Size: 750,000
 Industry: Healthcare
 Country or Region: France

- Reallocation and recovery of workloads now completed in a fraction of the time
- "Proactive" infrastructure maintenance means more efficient planned and unplanned downtime
- Time required for server maintenance decreased with "no disruption to critical services"

Solution 5: Virtualized Branch Office

Description and benefits

What Is It?

The necessary technology, architecture, and training to maximize the value of a managed virtualization infrastructure at the branch location. This solution is based on:

- Windows Server 2008 R2
- Windows Server Hyper-V R2
- Virtual Machine Manager 2008 R2



Business Impact

- Fast and easy server provisioning in branch locations, reducing costs
- Use clustering technology to shift applications and workloads to perform maintenance
- Increased server utilization and improved availability at remote offices
- Best practices can reduce PC provisioning and management by 80% and reduce IT support costs by 15.6%



Company Size: 15,300 employees
 Industry: Manufacturing
 Country or Region: North America

- Reduced security risks at branch locations
- Saved \$400,000 in hardware, maintenance, and licensing over three years
- Reduced the number of third-party solutions necessary

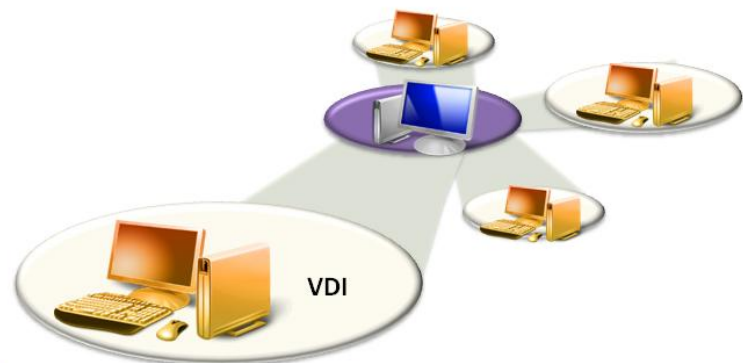
Solution 6: Virtual Desktop Infrastructure

Description and benefits

What Is It?

The necessary technology, architecture, and training to more effectively manage the desktop infrastructure, lifecycle, and support. This solution is based on:

- Windows Vista Enterprise Centralized Desktop (VECD)
- Microsoft Desktop Optimization Pack (MDOP)
- Microsoft Terminal Services



Business Impact

- Desktop infrastructure complexity is reduced
- Application access scales to the company and increases productivity
- Support calls and time are reduced through streamlined management of virtualized resources
- Virtual resources are managed through the same tools as physical assets
- Data loss is decreased through central data storage



Company Size: 78,000 employees
 Industry: Information Technology
 Country or Region: North America

- Extended the lifecycle of desktop computers to save costs
- Implemented Windows 7 and improved desktop user experience on existing hardware
- Reduced hardware expenses by implementing VDI to utilize existing hardware