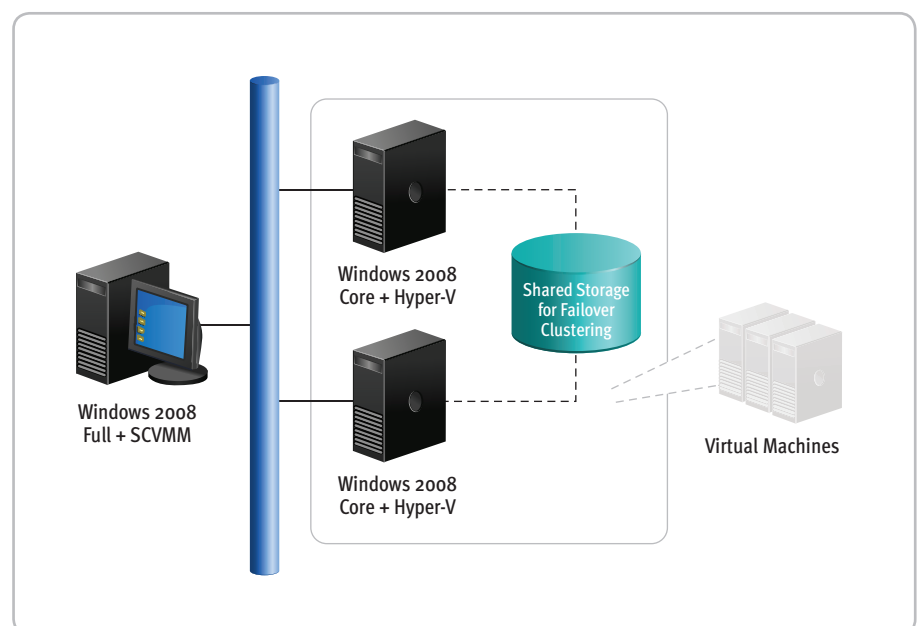EMC²
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EMC Proof of Concept
for Microsoft Hyper-V

Business Challenge

Over the past several years, the number of applications and servers required to support an organization's business needs has increased dramatically. Many organizations frequently purchased additional hardware to run each new major application, hoping this would ensure high availability and reliability. Unfortunately, this has increased the complexity of managing the IT environment and has resulted in many systems being grossly underutilized. Servers are not operating at their full capacity, and data center space requirements have increased along with power consumption, cooling, and capital expenses.

Virtualization addresses these issues by enabling one server or cluster to host multiple operating systems and applications. This consolidation reduces hardware footprint in the data center, decreases power and cooling costs, and increases capacity without impacting service levels.

Microsoft Hyper-V within Microsoft Windows Server 2008 provides a way to virtualize an organization's Microsoft Windows-based servers. While the consolidation of servers onto fewer physical machines can have huge advantages in resource and cost savings, many factors need to be considered during the planning process. To help companies understand how best to implement the technology, set expectations regarding availability, create workloads, understand the impact of server failure, and perform system management, EMC provides the Proof of Concept for Microsoft Hyper-V service offering.

Windows 2008
Full + SCVMM

Windows 2008
Core + Hyper-V

Shared Storage
for Failover
Clustering

Windows 2008
Core + Hyper-V

Virtual Machines

Service Description

The EMC® Proof of Concept for Microsoft Hyper-V provides you with the knowledge needed to successfully deploy a Microsoft Windows Server 2008 Hyper-V server virtualization platform and enable you to jumpstart the adoption process. We help you:

• Understand Microsoft's overall virtualization strategy, including how Microsoft Hyper-V fits

• Gain an exposure and understanding of Microsoft Windows Server 2008 and Microsoft Hyper-V

• Gain an exposure and understanding of virtual machines within Microsoft Hyper-V

• Understand how to manage the Microsoft Hyper-V infrastructure

• Estimate a potential server consolidation model on Microsoft Hyper-V

The EMC Proof of Concept for Microsoft Hyper-V Service is a one-week engagement executed onsite by a seasoned infrastructure consultant who has hands-on experience implementing Microsoft Hyper-V and Microsoft Windows Server 2008. Prior to the engagement EMC will outline the requirements for your environment to ensure a concise and focused delivery of this service. During the engagement, EMC will work onsite and will:

• Hold an instructional workshop to outline the overall Microsoft virtualization strategy

• Deploy two Microsoft Hyper-V physical servers, leveraging Microsoft Windows Server 2008 as a core build in a failover cluster configuration

• Deploy a third Microsoft Windows Server 2008 server for management of the cluster and to run Microsoft System Center Virtual Machine Manager (VMM)

• Create one template virtual machine

• Demonstrate the conversion of a physical server into a virtual machine residing in this infrastructure

• Deploy the Microsoft Assessment and Planning (MAP) tool in an agentless fashion to gather performance data of identified servers to define a potential consolidation model.

In addition, EMC will provide you with a report detailing a potential approach to consolidation of your servers onto a Microsoft Hyper-V platform, leveraging the Microsoft Assessment and Planning (MAP) tool.

Summary of Benefits

The EMC Proof of Concept for Microsoft Hyper-V POC Service will provide you with a clear vision of how your organization can benefit from a full software deployment. We provide you with the Microsoft Windows Server 2008 and Microsoft Hyper-V knowledge that will enable you to virtualize your server infrastructure and reduce hardware costs, data center floor space, and energy needs.

EMC Consulting

As part of the world's leading developer and provider of information infrastructure technology and solutions, EMC Consulting transforms information into business results. Our consultants bring a unique mix of industry, business, and technology expertise to solve today's toughest challenges. We use field-tested tools, proven methodologies, best practices, and industry standards to minimize risk and optimize time to value in our engagements. We provide a full range of consulting, design, implementation, and support services.

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