

EMC and Microsoft Hyper-V: Creating efficient, agile, and flexible IT operations

An ideal platform for virtualization

Many organizations are turning to virtualization for more efficient, agile, and flexible IT operations.

Microsoft offers one of the fastest growing and most cost-effective virtualization solutions from the desktop to the data center, including the ability to manage both physical and virtual environments from a centralized management console.

Microsoft[®] Hyper-V[™] is a key feature of Microsoft Windows Server[®] 2008 R2. It provides a scalable, reliable, and highly available virtualization platform. Part of Microsoft's ongoing effort to deliver the best operating system platform for virtualization, Microsoft Hyper-V provides an ideal platform for key virtualization scenarios, including:

- Production server consolidation
- Business continuity management
- Software test and development
- Dynamic data center development

With Microsoft Hyper-V, it's easier than ever to take advantage of the cost savings of virtualization through Microsoft Windows Server 2008 R2. Optimize your server hardware investments by consolidating multiple server roles as separate virtual machines running on a single physical machine; efficiently run multiple different operating systems in parallel on a single server; and fully leverage the power of x64 computing.

EMC and Microsoft Hyper-V

EMC is well positioned to assist you in adopting Microsoft virtualization technologies through our:

- Leading Microsoft consultancy
- Storage technology integration across Microsoft's product portfolio
- Deep experience in information infrastructure for virtual environments

In fact, EMC won the 2008 Microsoft Partner of the Year for Business Process and Integration Solutions with a solution that included Microsoft Virtual Server 2005.

EMC's industry-leading network storage platforms—including EMC[®] Symmetrix[®], EMC CLARiiON[®], and EMC Celerra[®]—fully support Microsoft Windows Server 2008 R2 Hyper-V and help provide a scalable, highly-available information infrastructure for virtualized environments.

You can leverage Microsoft virtualization technologies with the latest EMC storage technologies for high performance, automated failover and failback, simplified provisioning, and virtual storage provisioning. You can lower TCO and improve agility and flexibility for next-generation deployments of Microsoft Exchange Server, Microsoft SQL Server[®], Microsoft SharePoint[®] Server, and other key business applications.

EMC is committed to enabling you to realize the many operational and cost benefits of virtualization and to help you optimize the full value of your Microsoft virtualization technology investment. Deploying Microsoft virtualization with an EMC storage infrastructure can create the efficient, protected, and easy-to-manage environments you need.

Integrate virtualized computing and virtualized storage

The release of Microsoft Windows Server 2008 R2 introduced two much-anticipated features for Microsoft Hyper-V: Live Migration and Cluster Shared Volume (CSV). These features work in a Microsoft Windows failover-clustering environment. What's more, the inclusion of the iSCSI Software Initiator in Microsoft Windows Server 2008 provides ubiquitous SAN connectivity for organizations using existing Ethernet infrastructure. The iSCSI connectivity in Microsoft Windows Server 2008 combined with the Microsoft Hyper-V role offers unique benefits for virtualized environments.

Microsoft Hyper-V environments can take full advantage of IP block storage by using the iSCSI protocol. This provides a method to integrate virtualized computing and virtualized storage, offering a dynamic set of capabilities within the data center, which results in improved performance and system reliability.

EMC also offers a backup and recovery solution with EMC NetWorker® software through the combination of flexible tiered backup deployment options, broad support of the operating environments, VSS Writer support, and application consistent protection.

Assess, plan, and implement virtualization

EMC Consulting's deep knowledge in Microsoft server, application, presentation, and desktop virtualization provides expertise in assessing, planning, and implementing Microsoft's technologies in a wide array of virtualization solutions.

Deep integration testing through the EMC E-Lab™ and long-standing engineering relationship with Microsoft enables EMC to provide ongoing product support for Microsoft Windows Server 2008 R2 Hyper-V.

EMC is also integrating Microsoft Windows Server 2008 R2 Hyper-V in its EMC Proven™ Solution development process. This results in solutions that combine EMC and Microsoft technology tested and documented for a broad set of common workloads and use cases. As a result, joint EMC and Microsoft customers have the opportunity to more rapidly achieve the cost-reduction, efficiency, agility, and flexibility of virtualized environments.

To help you optimize your infrastructure and leverage virtualization to reduce costs, increase flexibility, and improve system availability, EMC offers:

- Microsoft Windows Server 2008 R2 Hyper-V and Microsoft System Center assessment, planning, and implementation services
- Design services for application virtualization with Microsoft Hyper-V
- Microsoft Windows Server Terminal Services implementations

Designed and implemented properly, a virtualized infrastructure can deliver the increased efficiency, flexibility, continuity, and agility that today's IT environments require. Microsoft's suite of virtualization technologies—combined with EMC's innovative storage and information management solutions—can enable you to realize these benefits on the journey to a more dynamic IT environment.



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