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Microsoft Hyper-V & System Center 2012

A Complete Virtualization Solution



This White Paper is brought to you by your friends at The Fulcrum Group, Inc.



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Microsoft Hyper-V and System Center 2012: A Complete Virtualization Solution



March's newsletter discusses some standout features of Microsoft Hyper-V and System Center 2012. Microsoft Hyper-V is the ideal virtualization platform for small businesses, especially those with 3-20 servers.

With the release of Hyper-V 2012 R and System Center 2012 R2, Microsoft finds itself finally able to offer up an **affordable, reliable and scalable virtualization solution for small business** that can compete with the features and functionality of VMware, but at lower price point.

Here are a few features that show how Hyper-V and System Center might be just the solution you're looking for:

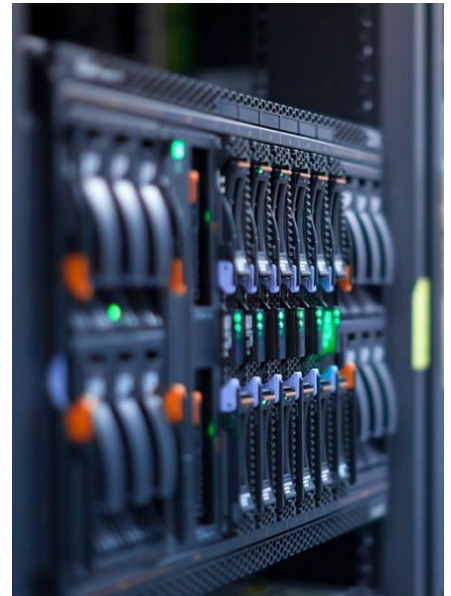
Hyper-V Features

- Comparable functionality to VMware (performance, high availability, manageability)
- Next generation Virtual Machine architecture
- Manage both Windows on-premise and Azure cloud environments

As small businesses embrace the cloud, manageability is going to be of major concern. The ability to manage both internal Windows virtualization environments AND Azure cloud environments is a huge step in the right direction.

Hyper-V – Scalability, Performance, & Density Highlights:

- Increase in number of supported CPUs and memory (more horsepower to run VMs)
- Clustering Support (high availability)
- iSCSI Virtual Hard Disk – shared storage without the SAN
- New Virtual Hard Disk Format – improved performance and scalability, online resizing of .vhdx files
- Generation 2 Virtual Machines provide new functionality such as secure boot and boot from SCSI virtual DVD
- Live Cloning of VMs using System Center 2012 R2
- Faster file transfers and VM deployments with Windows ODX
- Additional Disaster Recovery capabilities with extended replication



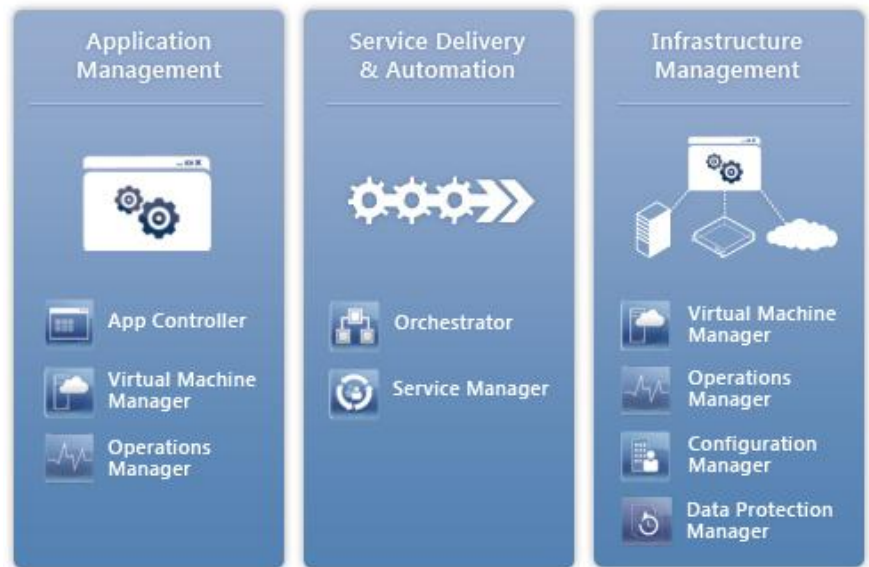
Microsoft is advancing virtualization technology, some of which hasn't been improved in several years. This gives Microsoft Hyper-V virtualization a distinct advantage in the marketplace.



System Center 2012 R2 Highlights:

- **Operations Manager** Monitor, report, and alert on your virtual server environment.
- **Configuration Manager** – Deploy Operating Systems, applications, and Windows patching.
- **Virtual Machine Manager** Data center virtual server management, including Hyper-V, VMware, and Citrix Xen.
- **Orchestrator** Workflow automation
- **Data Protection Manager** Enterprise backup
- **Service Manager** ITIL IT Service Management best practices

System Center 2012 Capabilities and Components



If you are considering implementing or upgrading your virtualization environment, comprehensive, easy to use management tools like System Center 2012 are important.

Nothing is more frustrating than trying to troubleshoot virtual server environments without the proper tools. **System Center 2012 R2 provides a plethora of tools to monitor, manage, and report on your virtual server environment, even if you have a heterogeneous environment with VMware and/or Citrix Xen**

If you'd like assistance with further information about virtualization solutions or the specific needs your organization might have, don't hesitate to reach out to us by phone or email - visit our website at www.fulcrum.pro to find out more about this issue and the solutions we recommend.

Check out our blog for security alerts and other important information for business owners and managers – email ljames@fulcrumgroup.net if you'd like to be alerted when we post.



As always, we invite you to give us a call if you have questions – someone's always here to help you out! Call us today at **817.337.0300**.

