



### Technology News - Windows 2008 Virtualization, What We Run, SBS 2003 Migration, and more

#### **WINDOWS 2008 VIRTUALIZATION WITH HYPER-V**

Virtualization is getting a lot of press these days. In a nutshell, virtualization refers to the ability to run multiple servers on one physical machine. Microsoft's solution for virtualization is Hyper-V, a component of Windows 2008 Server. Why is this important? Companies are always looking for more functionality with less hardware expense; hardware produces heat and takes energy; technology improvements take too long and cost too much to implement with hardware changes; and a whole host of other reasons. Using Windows 2008 Hyper-V, companies can reduce the number of physical machines they need and add new servers or functionality with no more expenditure. Virtual Servers run fast and you can "dynamically" change their configuration. Imagine you want to add more memory or disk space to a server—with a Virtual Server you can do this with a few mouse clicks, as long as you have resources available on your physical machine.

You also save on licensing. With Windows 2008 Standard, you are licensed to run one additional Virtual Server. With Windows 2008 Enterprise you get 4 more virtual machines (5 licenses for the cost of one!). And with Windows 2008 Datacenter, you can run as many as you can fit on your hardware. Talk about a huge savings!! **Call us for more info.**

#### **WINDOWS 7 UPDATE**

Windows 7 is making inroads and it is GREAT. If you have any Vista whatsoever, you need to upgrade NOW. Call us if you need help getting Windows 7. Windows XP users should be getting any new hardware with Windows 7 pre-loaded.

#### **WINDOWS 2008 SERVER R2 RELEASED OCTOBER 22, 2009**

Windows 2008 Server R2 was released last month. Most of the improvements over Windows Server 2008 are transparent to end users. From an IT standpoint, some of the new features include better support for IIS and Web-Based Applications, more Power Shell Support, better FTP support and so on.

#### **WHAT CARNES GROUP RUNS FOR ITS OWN INFRASTRUCTURE**

We deploy internally before we recommend things to customers whenever we can. As a Microsoft Gold Certified Partner, we get access to software long before it is released and have time to test and deploy it ourselves. Here is what we run:

Network: Comcast cable with a Cisco ASA firewall for Protection and VPN. Cisco ASA's are the BEST for small business.

Phones: Microsoft Response Point with Sypine and Aastra gear, with phone and eFax service from New Global Telecom.

Desktops: Windows 7 was deployed on all desktops in August 2009 and we did not have to change any hardware or software at all.

Servers: 2 physical domain controllers running Windows 2008 R2 Enterprise (in-place upgrades from Windows 2003 R2 Enterprise); 1 physical server running Windows 2008 DataCenter Hyper-V with one VM running Exchange 2007 Enterprise; 1 physical server running Windows 2008 DataCenter Hyper-V with a Windows 2008 App Server, a Windows 2003 App Server, a Windows 2008 R2 domain controller and a Windows 2008 Server running Sharepoint; and a legacy server running Windows 2003 R2 Enterprise.

We have already eliminated one server and will soon eliminate 1 physical domain controller and the legacy server - leaving us with 3 physical machines, 5 virtual servers, and MORE space, LESS energy needed and a lot LESS heat!

The great thing about our environment is *FLEXIBILITY*. Migration to Exchange 2010 in the spring will be easy in our environment and we won't need to spend more money on equipment. This infrastructure will work for your company too!

#### **WINDOWS 2003 SBS UPGRADE - WHAT WE RECOMMEND AND WHAT WE HAVE DONE**

If you have run Windows 2003 SBS on a machine for 4 or more years, it is time to migrate. Very likely your machine is no longer under warranty. **If you have a hardware issue, you could be out of business for a week or more. Can you afford it?** We will upgrade you to Windows 2003 SBS R2, run the Microsoft SBS Migration software to "divide" SBS into its Windows and Exchange Server components, put in a Windows 2008 Hyper-V server and run Exchange 2007, Windows 2008 R2 as a domain controller and an Application or Terminal Server. We will then REUSE your old server as a spare domain controller! In most situations, this is a far more flexible solution than migrating to Windows 2008 SBS server (which ALSO requires a new server) but we can do that migration as well. **CALL US, WE CAN HELP YOU!**

## Carnes Group Information

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