

New Features

- Server Core
- RODC
- GP improvements
 - New settings + central storage
 - Moving to XML format
- Server Manager
- WDS, WIM
- Better event logs (XML based) & collection (subscription feature)
- IPv6
- Network Access Protection (NAP)
 - Nice idea, but still requires a ton of servers + integration into the DHCP servers.
 - We could be doing this already with our Cisco Network Access Control.
- BitLocker
- Service Hardening
- PowerShell
- Hyper-V (server virtualization hypervisor)
- User Account Control (UAC)
- Windows Firewall w/ Advanced Security
- Reliability and Performance Monitor

Versions

- Windows Web Server 2008
- Windows Server 2008 Standard
- Windows Server 2008 Enterprise
- Windows Server 2008 DataCenter

Server Core

- Cmd prompt
- No GUI, no IE
- Remotely control via GUI
- Only install the services you need
 - Smaller attack vector
 - Reduced Patch surface
 - Reduced admin overhead
 - Increased stability

- Less hardware requirements
- Must be a clean install (no upgrade path)
- Roles: DC, ADAM, DHCP/DNS, File/Print, Streaming Media, HyperV
 - No IIS, CertServices, ADFS, AD Rights Management + no .NET
- Notepad, Task Manager, RegEdit will work as GUI.
- **WinRM & WinRS – Windows Remote Management and Windows Remote Shell**
- Recommendation is to use Vista to manage a Windows 2008 domain
- Supports WMI and MMC remote management

Remote Server Administration Toolkit (RSAT)

- **New version of Server 2003 AdminPak**
- **Runs on VISTA!**
- **Coming with Vista SP1**

RODC

- Branch office primarily
 - Locations w/ low security
 - Locations w/ no local IT support
- No outward replication – only sucks down info from regular DC.
- Caches credentials for users who want to authenticate against it. RODC passes request along to the regular DC and stored creds it receives. End up with only a partial database of users.
- Can make RODC a readonly DNS server (not sure if / how this might work at NCSU nor if it would be useful? Tools that assume a Windows DNS server?)

Server Manager

- Think the current Computer Management MMC on steroids meets that stupid management box that pops up when you login to Windows 2003 server.
 - Roles management
 - Features – bitlocker, failover clustering, internet printing, NLB, remote asst, RSAT...
 - Windows Reliability & Perf Mon
 - Scheduled Tasks
 - Event Viewer
- <http://www.microsoft.com/windowsserver2008/servermanagement.msp>
- <http://technet2.microsoft.com/windowsserver2008/en/servermanager/default.msp>
- NOT REMOTEABLE – you must use via RDP – so useless for centralized control.

Group Policy

- New central store – so no need for everyone to have to install the GP ADMs themselves.
 - Store automatically seen by admins on Server 2008 or Vista clients
 - Legacy ADM can be imported
- GP is now a service
 - Allows greater logging – own category in Event Viewer.
 - You can restart it w/o restarting the server
- **Preferences:** New category of GP settings in Server 2008 resulting from MS's buy of Desktop Standard.
 - Allows you to SUGGEST settings that the users can overrule.
 - Setting this in GP doesn't force all users to use them.
 - Should be **VERY** useful.
 - Managed from 2008 GMPC (can download for XP)
 - Coming to Vista w/ SP1
 - Overview: <http://www.microsoft.com/downloads/details.aspx?FamilyID=42e30e3f-6f01-4610-9d6e-f6e0fb7a0790&DisplayLang=en>
- New policies (some just for Vista)
 - Restrict device driver installation
 - Restrict use of removable devices
 - Manager power settings for workstations
 - Pre config wireless networking options
 - Deploy printer connections
 - UAC policies
 - Firewall settings
 - ...
- Password policies can be set by group – no longer a single domain policy!
 - Usage – UnityID accounts versus non-UnityID accounts
 - Set on a security group.
 - Requires domain functional level of 2008 (all DCs must be 2008)

Migration and Deployment

- Options
 - Manually
 - Over the Network
 - Imaging – WDS (new RIS)
 - Presenter didn't mention/know about multicast/autocast features of WDS found on Server 2008
- Windows Automated Installation Kit (WAIK)
 - Windows System Image Manager
 - new way to create 'answer' files used during installations
 - configure partitions, etc.

- Win PE – Preinstallation Environment (MS version of BartPE, sort of)
 - Can be put on CD, flash drive, etc
 - Bootable environment (minimal Windows)
- ImageX (can mount, edit WIM file, then close)
- Sysprep