

GEORGE WARREN

BROWN

SCHOOL

of Social Work

Upgrading to SharePoint 2010: A Case Study

St. Louis SharePoint Users Group

February 8, 2011



Washington University in St. Louis

About the Brown School

- One of eight schools at Washington University in St. Louis
- Graduate programs in Social Work and Public Health
- 53 Faculty
- 110 Adjunct Faculty
- 161 Staff
- 55 PhD and Post-Docs
- 446 MSW Students
- 101 MPH Students

Overview

- SharePoint 2007 Environment
- SharePoint 2010 Environment
- How We Got There
- Challenges
- Next Steps

SharePoint 2007 Environment

- Servers
 - 1 Microsoft Office SharePoint Server – Enterprise
 - Windows 2003, 32 bit
 - Physical – 2 Processors, 4 GB RAM
 - 1 SQL Server 2005
 - Windows 2003, 32 bit
 - Physical – 2 Processors, 2 GB RAM
 - ISA Server 2006
 - Windows 2003
 - Virtual – 1 Processor, 1 GB RAM
- 14 Web Applications
 - 10 public facing WCM sites
 - 2 intranet / collaboration areas
 - Central Administration and SSP

SharePoint 2007 Environment

- Customizations
 - Lots of custom master pages and pages layouts
 - Stapler Feature for My Sites
 - Fab 40 Templates (Microsoft)
 - Custom DLLs for navigation, workflow activities
 - Useful SharePoint Workflow activities (CodePlex)
 - IT Productivity Pack (Bamboo)



SharePoint 2010 Environment

- 1 SharePoint 2010 Enterprise Server
 - Windows 2008 R2, 64 bit
 - Virtual Server - 3 Processors, 8 GB RAM
- 1 SQL Server 2008 R2
 - Windows 2008 R2, 64 bit
 - Virtual Server - 2 Processors, 8 GB RAM
- 1 ISA Server 2006
 - Windows 2003
 - Virtual Server – 1 Processor, 1 GB RAM

How We Got There – Cleaning up

- Clean-up the 2007 farm
 - Deleted old sites (including about 200 My Sites)
 - Document and page versions
 - STSADM Pre-Upgrade Check
 - Uninstalling old features that were not used any more
 - WSSAnalyzeFeatures

How We Got There – Configuration

- Installed SharePoint 2010
- Configured as much as we could with Power Shell
 - State Service
 - Excel Services
 - Global Solution Deployments
- Manually installed in GAC
- Configured Search via central admin

How We Got There - User Profiles

- Setting Account Permissions
 - Service account MUST be able to replicate directory change in AD
 - Farm account must be able to logon locally to SharePoint Server
- Enabled User Profile Service via Power Shell
- Create User Profile Service Application via Power Shell
 - Pointed to a restored copy of the SSP database from 2007 server
 - This is the logged in user as the dbo for all of the databases
 - Ran SQL command to reset dbo back to the service account
- Enable NetBIOS domain names
- Had to open Sync Service Manager

How We Got There – Moving Sites

- Created web applications via Power Shell
 - Enabled and necessary solutions
 - Created with a temporary content database
- Set the production database to read-only
- Back up production content database
- Restored content database to the new server
- Perform database attach upgrade via Power Shell
- Remove the temp database from the web application

How We Got There – Upgrading Sites

- InsideBrown was upgraded first
 - InfoPath forms
 - Administrator approved forms had to be extracted from the 2007 farm
 - STSADM –o exportipfsadminobjects
 - Used Power Shell to load into the 2010 farm
 - Import-SPInfoPathAdministrationFiles
- My Sites
 - Created a batch file to deactivate stapler feature prior to back up of database
 - Attached the content database to the new farm - Took a long time!!!
- Upgraded WCM sites
- Upgraded extranet

Challenges

- Getting Flash to run and PDFs to open in the browser
- Mobile Sites
 - All external sites were rendering in the mobile template for SharePoint
 - Had to edit App_Browsers\compact.browser
 - Set IsMobileDevice=false for each browser listed
 - CU seemed to reset this
- User Profiles
- Fab 40 caused problems
 - Room Reservations workflow and calendar would not work
 - We were able to use new functionality in 2010 to duplicate this
 - ApplicationTemplateCore.wsp caused content structure to error due to a duplicate column (Resources).
 - Had to retract the solution prior to migration to fix
- My Links
- Excel files opening in browser
 - Had to enable “Open Documents in Client Applications by Default” feature to get this back.
- Security trimming in search for trusted domain accounts
 - Power Shell command to Force Claim ACLs

More Challenges

- There were some issues with Content Query Web Parts
 - Descriptions were dropped when content database was moved, had to re-add in the web part
- Bamboo
 - had to be manually reconfigured on each page.
 - Had to remove web parts for the web page gallery manually and reinstall the solution to get them to work.
- Search web parts had to be reconfigured to get search working because of missing attributes
 - Had to “true up” meta data properties in the search service application with the Fetched Properties of the Search Core Results web part.

Next Steps

- Lingering SharePoint Health Analyzer messages
- Office Web Applications
- Managed Meta Data
- Upgrade Master Pages
- Reconfigure Search (FAST????)

References

- WSSAnalyzeFeatures - <http://code.msdn.microsoft.com/WssAnalyzeFeatures>
- Flash and PDFs - <http://social.msdn.microsoft.com/Forums/en/sharepoint2010general/thread/05e73e5e-0fca-4ae0-8fe0-8cc817ecc92c>
- User Profile Set Up - <http://www.harbar.net/articles/sp2010ups.aspx>
- FIM - <http://blog.jussipalo.com/2010/02/sp2010-fimsynchronizationservice-errors.html>
- InfoPath Forms - <http://technet.microsoft.com/en-us/library/ee704551.aspx#export>
- Search - <http://social.technet.microsoft.com/Forums/en-US/sharepoint2010setup/thread/2d903f8a-f74b-48e6-9b3e-b9461ae3fa5e>