

SharePoint 2003 to SharePoint Server 2007 RTM Gradual Upgrade Demo – Part 2

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This is part 2 of my White Paper on doing a Gradual Upgrade from SharePoint 2003 to Moss2007. In Part 1 I showed you how to Upgrade the actual servers and get the 3 SharePoint Servers into the new Moss farm.

In This white paper we will upgrade the site collections and also migrate the My Sites to the new Farm.

There was also be an additional white paper that will cover changes made to customized sites and how to configure the Search service so that the two Upgraded Web Servers serve queries correctly and received the propagated Index from the application server that is doing the Indexing of the content in SQL. Check the Web Site downloads page for that white paper.

Server Type	Role	Software
Root Domain	DC, Mail Server	Windows 2003 SP1
Controller		Exchange 2003 SP2
SQL Server	Database server	SQL 2000 SP4
SharePoint Server	Index / Job	Windows 2003 SP1
		SharePoint Portal Server 2003 SP2
		SharePoint Server 2007 Enterprise
SharePoint Server	Web Front End 1	Windows 2003 SP1
		SharePoint Portal Server 2003 SP2
		SharePoint Server 2007 Enterprise
SharePoint Server	Web Front End 2	Windows 2003 SP1
		SharePoint Portal Server 2003 SP2
		SharePoint Server 2007 Enterprise

After Part 1 this is the current environment of the Upgraded servers

In the previous demo we had finished Configuring the Servers in the farm. The next step is to start the site upgrade process.

- 1. Launch the Office SharePoint 3.0 Central Administration Site
- 2. Go to the Operations page
- 3. Scroll down to the Migration section and click Site Content Upgrade Status
- 4. You should now see the screen below that shows you your URL portal that needs Upgrading.

Address 🙆 http://wfe1:215	65/_admin/GradualUpgrade.aspx		💌 🄁 Go 🛛 Link
Central Administration			Welcome System Account 🔻 🔞
🔆 🔆 Central Admi	nistration		
Home Operations A	pplication Management		Site Actions 🔻
	Central Administration > Operations > Site Conte Site Content Upgrade State	ent Upgrade Status US	
Server Farm	This page shows the current status of upgrade for the we	b applications in this farm. The Next Action links will go to the pr	oper UI page for upgrading the web application.
Not Complete	URL for Previous Version	URL for New Version	Next Action
See <u>administrator task list</u> for more information	http://portal.trainsbydave.com/		Begin upgrade
View All Site Content			
Administration			
Operations			
 Application Management 			
Shared Services Administration			
🔄 Recycle Bin			
Actions			
 Site Content Upgrade Status 			
Finalize Upgrade			

If you get an message telling you that nothing associated with the farm can be upgraded then you may need to change the URL in your browser to the first server that was upgraded , ie. WFE1 in my case as WFE2 may not yet have all the information it needs. For example change the URL to http://wfe1:21565/_admin/gradualupgrade.aspx

- 5. Click Begin Upgrade
- 6. You will now be asked to complete information for the creation of the Web Application that will host the SharePoint 2003 Portal URL for redirects. In my case I chose to use portal03.trainsbydave.com. The reason for this is that the new Moss farm will be using portal.trainsbydave.com.

It is important to note that if users have created shortcuts on their desktops or network places or in the browser that they will not work and the users must be made aware of this. 7. Now fill in the Port number, host header value and also I chose to create a new Application Pool to host this Web Application. Use a domain name and account that has create DB rights and SQL server admin role in SQL as well as being a local administrator on all SharePoint Servers.

	Central Administration > Operations > Site Content Upgrade Status > Set Target Web Application				
	Set Target Web Application				
Server Farm ? Configuration ? Not Complete	Warning: this page is not encrypted for secure communication. User names, passwords, and any other information will be sent in clear text. For more information, contact your administrator.				
See <u>administrator task list</u> for more information	Web Application to Upgrade	Upgrading Web Application: http://portal.trainsbydave.com/ •			
View All Site Content	New URL for Original Content	Port			
Central Administration	Upgrade will relocate the existing SharePoint Web application to a new IIS site, and create the newer version at the original location. The IIS site the existing web applications is moved to must have a new nort or domain name	8081			
Operations Application Management	HTTP requests for all content will be redirected to the proper domain, throughout the gradual upgrade process.	portal03.trainsbydave.com			
Shared Services Administration	You must supply either a new port or a new host header to use for the URL.				
🕘 Recycle Bin	Application Pool For New Web Application	C Use existing application pool			
Actions	The Web application you will be upgrading to must use an application pool that is unique from the original application pool.	CentralAdminAppPool (trainsbydave\administrator) 💌			
 Site Content Upgrade Status 	The application pool defines the account and credentials that will be used by the upgraded Web application.	Create new application pool			
Finalize Upgrade	You can choose an existing application pool, or create a new one.	portal03AppPool			
		Select a security account for this application pool			
		C Predefined			
		Network Service 💌			
		 Configurable 			
		User name			
		trainsbydave\administrator			
		Password			
		1			

- 8. Select to restart IIS automatically so that the other Servers in the Farm get the changes made with the new web application.
- 9. Choose NTLM or Kerberos for your Authentication mechanism. Don't use Kerberos if you have not configured your Service Principal Name yet. See KB article <u>http://support.microsoft.com/?kbid=832769</u>.
- 10. Select Automatic database name selection unless you want to be specific for the names the Migration uses for the Portal Server 03 databases.
- 11. Specify a new SSP database for hosting my sites and profiles
- 12. Specify the location you wish to put your index files. The default may not be ideal especially if you need to put your indexes on a larger drive on say the E Drive.

Reset Internet Information Services Use this section to allow SharePoint to restart IIS on other farm servers. The local server must be restarted manually for the process to complete. If this option is not selected and you have more than one server in the farm, you must wait until the IIS web site is created on all servers, and then run "isreset /noforce" on each Web server. The new IIS site will not be usable until that is completed.	© Restart IIS Automatically O Restart IIS Manually
Security Configuration Kerberos is the recommended security configuration to use with Integrated Windows authentication. Kerberos requires the application pool account to be Network Service or special configuration by the domain administrator. NTLM authentication will work with any application pool account and the default domain configuration.	Authentication provider: O Negotiate (Kerberos) O NTLM
Content Databases By default, upgrade will manage the creation of new database. This is the recommended approach. If you need to provide matching database names, choose "Manually set database names". You will be prompted for database names before they are created.	 Automatic database name selection Manually set database names
SSP Database Settings Specify names for the SSP and Search databases that will host user profile, audience, and search configuration data upgraded from SharePoint Portal Server 2003. If you specify the name of an existing database, it must not contain schema or data.	SSP Database Name SSP1_db Search Database Name SSP1_Search_db
Index Server Select the index server which will crawl content in all Web applications associated with this SSP. Specify the path on the index server where the indexes will be located. Note: Changing the index server will reset the index. To move the index without a reset STSAdm must be used.	Index Server APPLICATION Path for index file location C:\Program Files\Microsoft Office Serv
	OK Cancel

13. Click Ok once you are happy with your choices.

You can now choose which site collections you wish to migrate to the New Moss Farm.

Central Administration			Welcome System Account 🔻 🔞
🔆 Central Admi	nistration		
Home Operations Ap	plication Management		Site Actions 🔻
	Central Administration > Operations > Site Conten Site Collection Upgrade	t Upgrade Status > Site Collection Upg	rade
Server Farm ? Configuration ?	Use this page to select site collections to be upgraded. Setti	ngs and other options are available from the A	ctions list below
Not Complete	Total number of sites selected: 0		Web Application: http://portal.trainsbydave.com/ •
See administrator task list	Content Database CorpPort2_SITE_Pair 💌	URL Search	🔎 🗹 Search all databases
Tor more information	URL URL		
View All Site Content			
Administration	/partners/CombinedKnowledge		
Operations	/partners/Mindsharp		
 Application Management 	/personal/bill		
Shared Services Administration	/personal/penny		
Corp Portal	/personal/steve		
💽 Recycle Bin	/sites/coursedev		
Actions	/sites/training		
Database names	Total number of cites celected: 0		Llograda Sitos
 Refresh site list 	Total humber of sites selected: o		opgrade bites
Revert site			
Upgrade settings			
 Site Content Upgrade Status 			
Finalize Upgrade			

Test Migrating just One site collection and measure the total db size against how long it will take. This will allow you to gauge how long the other site collections will take to Migrate.

In my test I am going to Migrate the Site Collections used for the /partners and /sites URL's and I am going to leave the /personal sites and run that after the Team Sites have successfully been migrated.

- 14. Tick the boxes for you chosen Site Collections
- 15. Click Upgrade Sites
- 16. You will then get a screen showing you the database size , number of site collections and also the source and destination databases.
- 17. Click Upgrade Sites again

Central Administration		Welcome System Account 🔻 (
🔆 Central Adm	inistration	
Home Operations A	pplication Management	Site Actions 🔻
	Central Administration > Operations > Site Content Upgrade Status > Site C Sites Selected for Upgrade	Collection Upgrade
Server Farm Configuration Not Complete See administrator tack list	When you click 'Upgrade sites' a timer job will be created to start the upgrac the amount of content, the site type, and the number of sites being upgrade	de process. Gradual upgrade can take a long time, depending on d.
for more information	You have chosen to upgrade the following: Number of site collections:	5
Central Administration	Storage used originally:	26 MB
Operations Application Management	Originating database: Target database:	CorpPort2_SITE CorpPort2_SITE_Pair
Shared Services Administration		
Corp Portal		Upgrade sites Cancel
🔄 Recycle Bin		
Actions		
 Site Content Upgrade Status 		
 Finalize Upgrade 		

18. You should now get a progress screen as the Migration steps take place

Central Administration		Welcome System Account 🝷 🧕
🔆 Central Admi	nistration	
Home Operations A	pplication Management	Site Actions 🔻
	Central Administration > Operations > Upgrade Runnin Upgrade Running	ng
Server Farm ? Configuration ? Not Complete	Use this page to see the status of a timer-based upgrade. This p progress.	age refreshes automatically every minute. Navigating away from this page does not affect upgrade
See administrator task list	Status	Job in progress
for more information	Mode	Side-By-Side
View All Site Content	Elapsed Time	00:00:51.4963984
Central	Starting object	SPMigratableSiteCollection Parent=SPManager
	Current object	
Application	Current action	
Management	Step within the action	0
Shared Services	Total steps in this action	0
Administration	Server	WFE1
Corp Portai Recycle Bin Actions Site Content Upgrade Status Finalize Upgrade		

19. Once complete you will see a screen indicating that there is no Upgrade Job Pending

Central Administration	Welcome System Account 💌 🛛 🥥
🔆 Central Admi	nistration
Home Operations A	Site Actions 🔊
	Central Administration > Operations > Upgrade Running
	opgrade kunning
Server Farm ? Configuration ?	Use this page to see the status of a timer-based upgrade. This page refreshes automatically every minute. Navigating away from this page does not affect upgrade progress.
See <u>administrator task list</u>	No upgrade job pending, Upgrade succeeded on 12/4/2006 3:57 PM.
View All Site Content	
Central Administration	
Operations	
 Application Management 	
Shared Services Administration	
Corp Portal	
🔄 Recycle Bin	
Actions	
 Site Content Upgrade Status 	
 Finalize Upgrade 	

20. Lets now test the migration by going to the original URL which in my case was <u>http://portal.trainsbydave.com</u>.

It may take a while to load as this is the first time the page has been loaded and will be cached. If you get a timeout error – click on ' Go Back to Site'



21. You should now have your original Portal but in the Moss Template.

Notice that on my page one of the old web parts from SharePoint 2003 has been depreciated. You will need to delete the web part from the page.

22. In order to get correct DNS name resolution to your old SharePoint 2003 environment you now need to add an entry to DNS (or host file entry) that resolves to the new redirected URL that Moss is using. This is the same URL that we entered in step 7.

🚊 dnsmgmt - [DNS\ROOTDC\Forward Lookup Zones\trainsbydave.com]				
🚬 Eile Action View Window He	lp			_ 8 ×
⇔ → 🗈 💽 🗙 😭 🗔				
A DNS	trainsbydave.com 19 record(s)			
	Name	Туре	Data	
Forward Lookup Zones msdcs.trainsbydave.com trainsbydave.com fig_msdcs _sites tcp udp DomainDnsZones ForestDnsZones ForestDnsZones ForestDnsZones ForestDnsZones ForestDnsZones ForestDnsZones		2): blank):):)) record o update DNS records with the	 9], rootdc.trainsbydave.c otdc.trainsbydave.com. 1.0.0.1 1.0.0.15 1.0.0.100 1.0.0.7 1.0.0.100 1.0.11 1.0.2 1.0.43 1.0.43 1.0.47 1.0.0.6 	
	. (Add <u>H</u> ost Cancel]	

23. You can now test access to your SharePoint 2003 portal by typing the redirected URL. In my case this was http://portal03.trainsbydave.com



Lets now Upgrade the Personal Sites to the Moss Farm

- 24. Go back to Central Administration Operations and click Site Content Upgrade Status again.
- 25. Now select the three My Sites under the /personal URL



- 26. Click Upgrade Sites
- 27. Wait for the Upgrade Job to complete
- 28. Wait a short while, now go to your client and test accessing you're my Site. This may take a while to appear due to the first time it has been accessed. Notice you're my Site is now a SharePoint 2007 page.

Address 🕘 http://portal.tra	nsbydave.com/personal/steve/default.a	spx				💌 🄁 Go 🛛 Linl
Corp Portal > steve					Welcome steve 🔻 My :	šite My Links 🔻 🔞
👪 My Site				All Sites		→
My Home My Profile						Site Actions 🔹
	steve				Mu Calendar	Create Blog
View All Site Content My Profile Details	Describe yourself and help of Identify the people you know Upload your picture to help o Customize this page by addir Learn more about My Site an	hers find you and know what you and work with to put your perso thers easily recognize you at me g or removing web parts to get d see tips on what it can do for y	u do nal network to good use etings and events more out of your My Site ou	<u>.</u>	To change the address of the Access server, open the tool type the URL in the Mail serve box.	Outlook Web pane and then er address text
• Links		,			Colleague Tracker	•
 Colleagues Memberships 	RSS Viewer Web part is not bound to a feed. Open the tool pane to set the feed Url.			See new colleague suggestions. You have not created any links to y	our colleagues.	
Documents	SharePoint Sites			-	Show all colleagues	
 Shared Documents Private Documents My Pages 	Sites My Site Find all documents by steve Documents				Change what gets tracked	
Pictures	Type Name	Last Modified	Location	Properties		
 My Pictures 	Soap Bubbles	11/27/2006 2:14 PM	My Pictures			
Lists	Rhododendron	11/27/2006 2:14 PM	My Pictures			
Discussions	📄 🛛 Santa Fe Stucco	11/27/2006 2:14 PM	My Pictures			
Surveys	Coffee Bean	11/27/2006 2:14 PM	My Pictures			
🕘 Recycle Bin	FeatherTexture Blue Lace 16	11/27/2006 2:13 PM 11/27/2006 2:13 PM	My Pictures My Pictures			
	Tasks There are no items to show in this v	iew.				

Once you are happy that all your Site Collections are upgraded and you no longer need access to your SharePoint 2003 Farm you need to Finalize the Upgrade which will delete the redirect relationship with the SharePoint 2007 and SharePoint 2003 Farms. You should only does this once you are happy that all migrations are complete.

To Finalize the Upgrade

- 29. Go into Central Administration Operations page
- 30. Click finalize Upgrade
- 31. Confirm the message

You are done.

The final side that needs configuring is the actual configuration of the SharePoint 2007 farm and the templates used by the customized sites from the SharePoint 2003 environment. One of the first areas that need addressing early is the Search and I will cover this in a separate whitepaper available on the website.

Any comments are greatly appreciated for this white paper and I hope you found it useful.

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