Upgrading from SharePoint 2010 to 2013

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SharePoint Nerds
Rackspace
Who Am I?

- Shane Young
- Rackspace in Cincinnati
- SharePoint Server MVP 8 YEARS!
- Consultant, Trainer, Writer, & Speaker
  - Shane.Young@Rackspace.com
  - Blog
    - http://msmvps.com/shane
  - SharePoint Consulting
    - http://sharepoint.Rackspace.com
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Who is this Todd guy?

- WSS MVP since 2006
- Speaker, writer, consultant, Aquarius, 4th in line for the British throne
- Personal Blog www.toddklindt.com/blog
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- Weekly Netcast
- http://www.toddklindt.com/netcast
Upgrade Survivor

SharePoint 2007

- Gradual Upgrade
- Database Attach Upgrade
- In-Place Upgrade
Upgrade Survivor

SharePoint 2010

Gradual Upgrade

Database Attach Upgrade

In-Place Upgrade
Upgrade Survivor

SharePoint 2013

Gradual Upgrade

Database Attach Upgrade

In-Place Upgrade
Supported Databases

- BCS
- Managed Metadata
- PerformancePoint
- Secure store (need to know passphrase)
- User Profile databases (Not Sync)
- Search administration (no index or property dbs)
Things to know ahead of time

• No 2010 installed on server
• 2010 database must be RTM or later
  • No Service Pack required
• Office web apps are now on their own server so plan accordingly, 2013 will not consume 2010 OWA
• Add managed paths manually before attaching databases
• Always upgrade database with root site collection first
• Try to use same URLs
• You need more hardware! 😊
Authentication

• Claims is dominant
No more preupgradecheck

• Boo!
• Instead from management shell you can use:
  
test-spcontentdatabase –name <YourDBName> -webapplication <http://YourWebApp>
• Works the same in 2010 or 2013
• Or use a third party tool
• I like SPDocKit
Features and Solutions

• 2010 stuff mostly just works
• Hopefully you were a good boy or girl and did everything as WSPs
• Shane’s crappy old 2010 blog post will help you get all of the WSPs out of 2010
• Commands are the same in 2013 to get the stuff in
  • http://msmvps.com/blogs/shane/archive/2011/05/05/using-powershell-to-export-all-solutions-from-your-sharepoint-2010-farm-and-other-fun.aspx
Upgrade a database

• Test-SPContentDatabase – Name WSS_Content_Upgrade – WebApplication http://upgrade.contoso.com

• Mount-SPContentDatabase – Name WSS_Content_Upgrade – WebApplication http://upgrade.contoso.com
Things that are the same

- The commands we just ran
- One upgrade log file per upgrade
- One upgrade error log file per upgrade
- ..\15\logs
- Still mount multiple database at same time
- Look and feel not upgraded automatically
Things that are new

• Upgrade just affects the database schema not the site collections
  • No option to force site collection to upgrade when upgrading the database

• No more visual upgrade
  • 2010 vs. 2013 site collections

• Everything is in the hands of site collection admins
  • Test upgrade – creates a new site collection to test
  • Upgrade health rules
  • Upgrade process

• Upgrade logs are ULS format, include Correlation IDs

• Lots more
Testing evaluation site collections

• You can request an evaluation site collection
  • Site Settings > Site collection upgrade > Try a demo upgrade
  • Puts it in queue to be created

• Creates you a new site collection at http://webapp/sites/yoursite-<eval>

• Expensive operation only done by a timer job at 1 am by default

• Sends email to requestor and all site collection administrators

• For TESTING (like your play VM) you can manually run the timer job
Forcing eval site collections

• Remember this is done at 1 AM for a reason so don’t arbitrarily do this

• Central Admin > Monitoring > Review job definitions

• Job name = Create Upgrade Evaluation Site Collections job
  • One per web application
  • Run it now

• When job finishes you will have new site collection but it will be 2010

• About a minute later the Job “Upgrade site collections job” will kick in and upgrade to 2013
  • Job scheduled for every minute so no need to run now
Upgrade the site collection

- Done by the site collection administrator
  - Can be done with PowerShell also
  - Upgrade-SPSite
- Has 5 health rules that run to make sure upgrade can happen
  - Can be manually ran
  - Site settings > Site collection health checks
  - Test-spsite http://URL
- When upgrade finished logs available
  - Site collection level
  - 15\logs – “SiteUpgrade – date/time”
- Small site collections processed by app pool, larger by timer job
Throttling

- Upgrade is expensive so default limits
- App pool 5 simultaneous site collections per web app
- Site collections with less than 10 MB and less than 10 webs process by app pool, all others done by timer job
- Both of those settings controlled by web application properties
  - (Get-SPWebApplication http://upgrade.fabrikam.com).SiteUpgradeThrottleSettings
- Content databases only allow 10 simultaneous site collections to be upgraded
  - (Get-SPContentDatabase claims_upgrade).ConcurrentSiteUpgradeSessionLimit
Upgrade PowerShell you care about

- Test-SPContentDatabase
- Mount-SPContentDatabase
- Request-SPUpgradeEvaluationSite
- Upgrade-SPSite
- Others
  - Get-Command *upgrade*
  - Have fun.
More Resources

- A recording of me doing roughly this same talk
  - https://www1.gotomeeting.com/register/516655256
- A bunch of 2013 Recordings
- Microsoft Ignite training, recordings and PPTs
- TechNet looking good
- 2010 claims migration