# The Restoration Workshop



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## My background

- been in IT since the mid '90s
- primarily (Microsoft) platform development prior to that, I was a polymer chemist



- disaster recovery architect for a financial services and insurance company in mid 2000's
- onboarded with SharePoint for SPS 2003
- implemented for large and small customers
- managed a team of SharePoint consultants



- Chief SharePoint Evangelist
- teaching, community, development, etc.

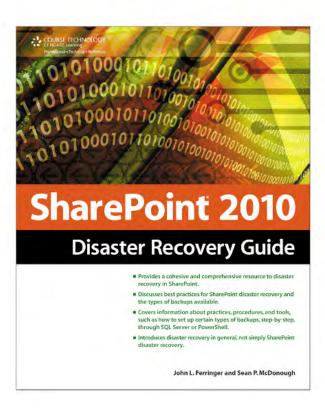


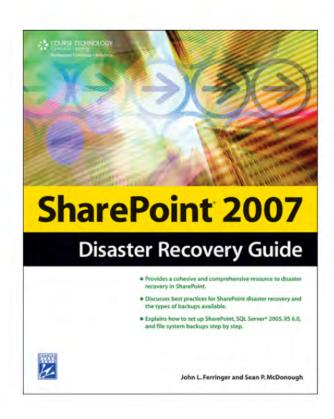
### Me & this tutorial?





## which manifested as ...





### Motivation

- Out-of-the-box (OOTB), SharePoint comes packed with a lot of data protection goodness
- In my experience, most admins immediately dismiss the OOTB tools as inadequate without understanding what the tools do and how they operate.
- I wanted to share my knowledge of the OOTB tools, demonstrate how they work, and maybe even trigger some "I didn't know that" revelations

## How this started

## How this started

Hypermiling with with SharePoint Data Protection



# Hypermiling?



In 2008, the word *hypermiling* was selected as the best new word of the year by New Oxford American Dictionary.<sup>[4]</sup>

Contente [hide]

Print/export



Please discuss this layout guide to make all essential details.

Hypermiling is the act of driving using techniques that maximize fuel economy. Those who practice these techniques are referred to as "hypermilers."<sup>[1]</sup>

Hypermiling can be practiced in any vehicl popularity as a result of the rise in gasoline

# How do we extend this concept to SharePoint?



Hypermiling?

## The owner's manual for my Prius



### 2005 Owner's Manual

For your safety and comfort, read carefully and keep in the vehicle.

PRIUS

### The agenda for this tutorial

#### =U-7Core Concepts Backup and Restore Export and Import High Availability Common Data Protection Tasks Farm Backup/Restore Using SQL Server's Tools Content Export/Import Site Collection Backup/Restore The Art of Restoring: Beyond Content Service Applications Configuration Data Add-Ons for "Greater Mileage" Publication No. OM47509U Part No. 01999-47509

Printed in Japan 09-0508-08 C

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#### **Core Concepts**

- Backup and Restore
- Export and Import
- High Availability

#### Common Data Protection Tasks

- Farm Backup/Restore
- Using SQL Server's Tools
- Content Export/Import
- Site Collection Backup/Restore

#### The Art of Restoring: Beyond Content

- Service Applications
- Configuration Data

Add-Ons for "Greater Mileage"



# Core Concepts



# Core Concepts

- Backup and Restore
- Export and Import
- High Availability

# High Availability

### Protection through redundancy

- SQL Clustering
- SQL Database Mirroring
- SQL Transaction Log Shipping
- SQL Always-On (SQL 2012)

## High Availability

### Protection through redundancy

- SQL Clustering
- SQL Database Mirroring
- SQL Transaction Log Shipping
- SQL Always-On (SQL 2012)

Not on-tap for today's tutorial

# Where we will focus:

- Backup and Restore
- Export and Import

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- Backup and Restore
- Export and Import



What's the difference?

## Let's start With a backup

Source Data:





### Source Data:







Backup Set:



# The call comes ...



## Backup Set:





Result:



### Result:



# 1-to-1 equivalence

With source data

# Now let's look at an export

Source Data:



### Source Data:







Export Package:



# The call comes ...



## Export Package:





Result:

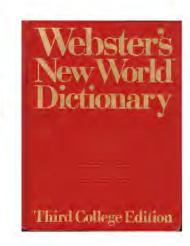


### Result:



Not an identical copy of original. Still \$2.00, but a transformation has occurred.

# How I define things



### Backup/Restore

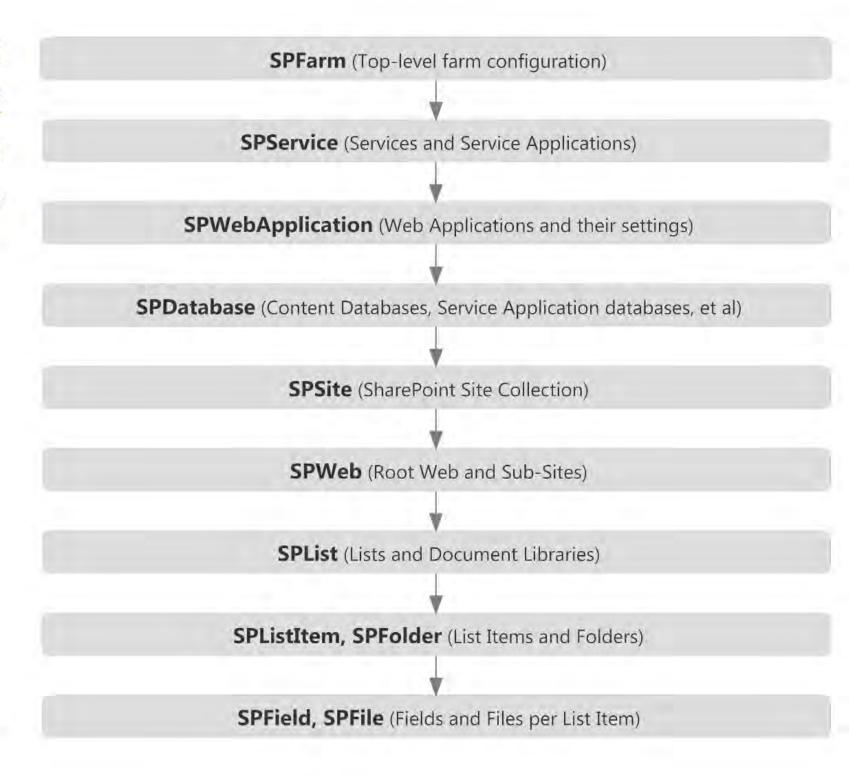
- Captures source data in full-fidelity, 1:1 fashion
- · What you put in is exactly what you get back out

### Export/Import

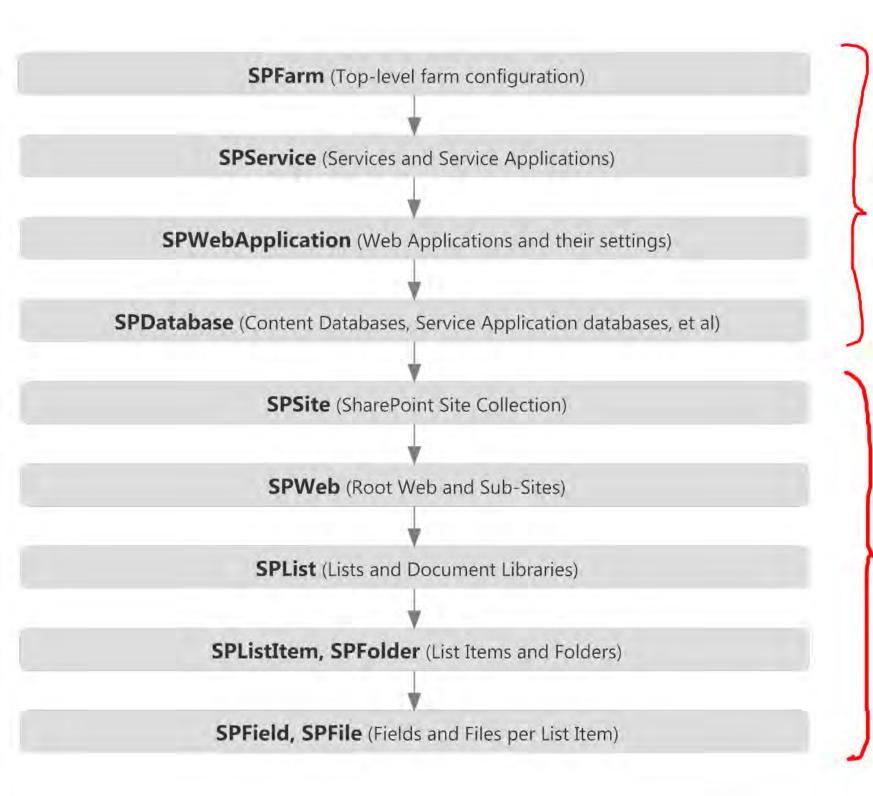
- Captures source data at less than full-fidelity
- Some transformation of data may occur
- You get out a "relevant" subset of what goes in
- More portable and manipulable than backups



### SharePoint Object Model Hierarchy



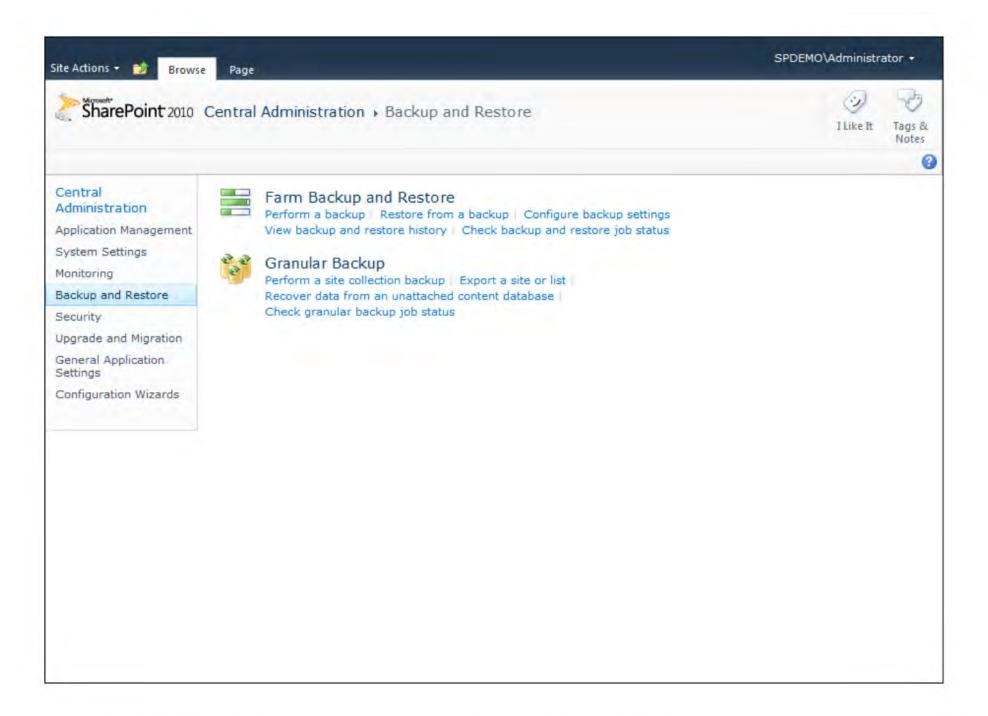
Parent Children



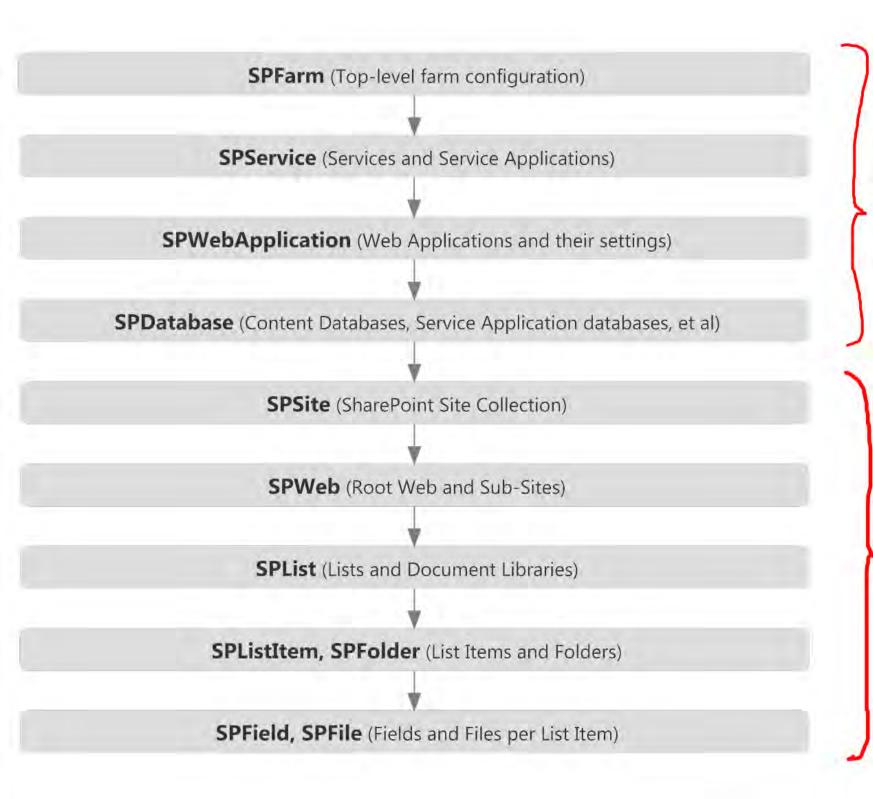
### Farm Backup & Restore



Granular Backup



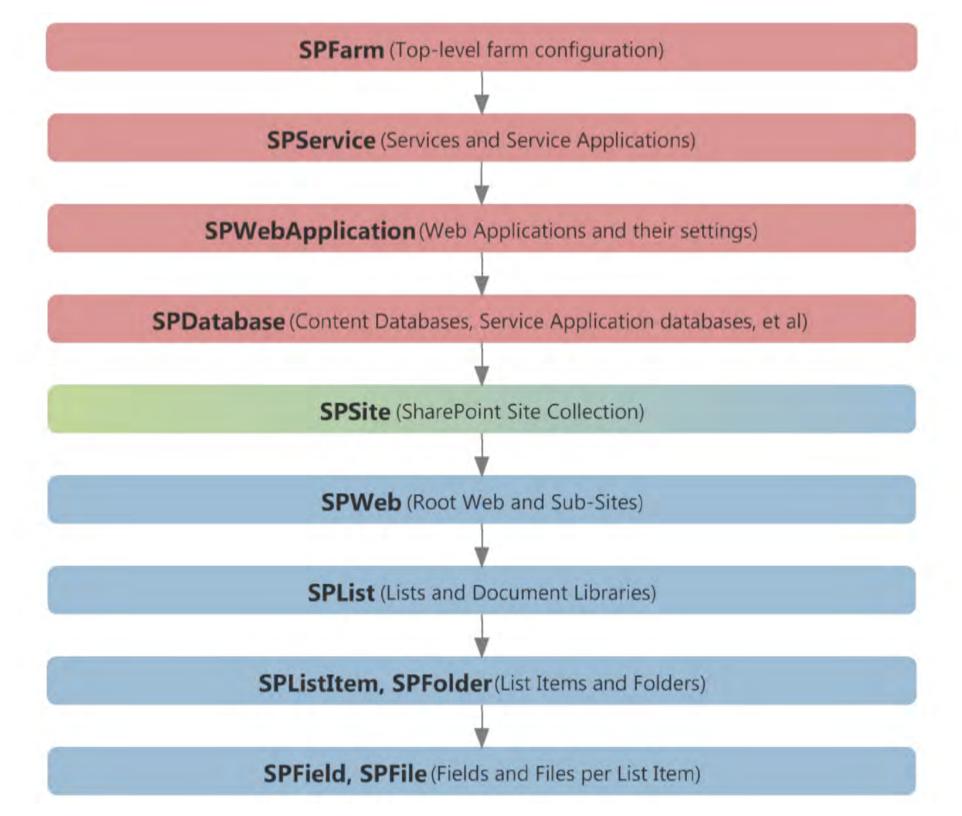
#### **Backup and Restore in Central Administration**



### Farm Backup & Restore

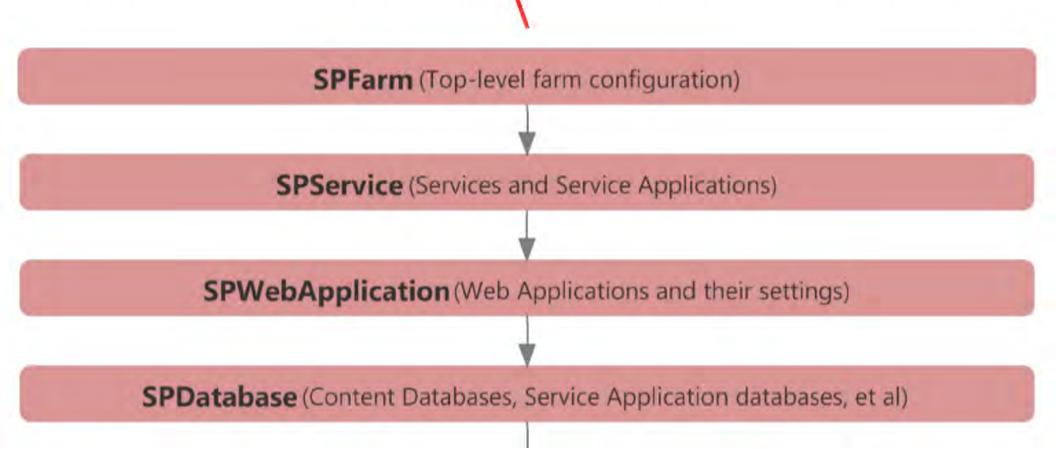


### Granular Backup



#### "Catastrophic" farm protection

- Backup-SPFarm
- Restore-SPFarm
- STSADM -o backup with -filename specified



SQL Server Database backups can also be used to great effect here



- Backup-SPFarm
- Restore-SPFarm
- STSADM -o backup

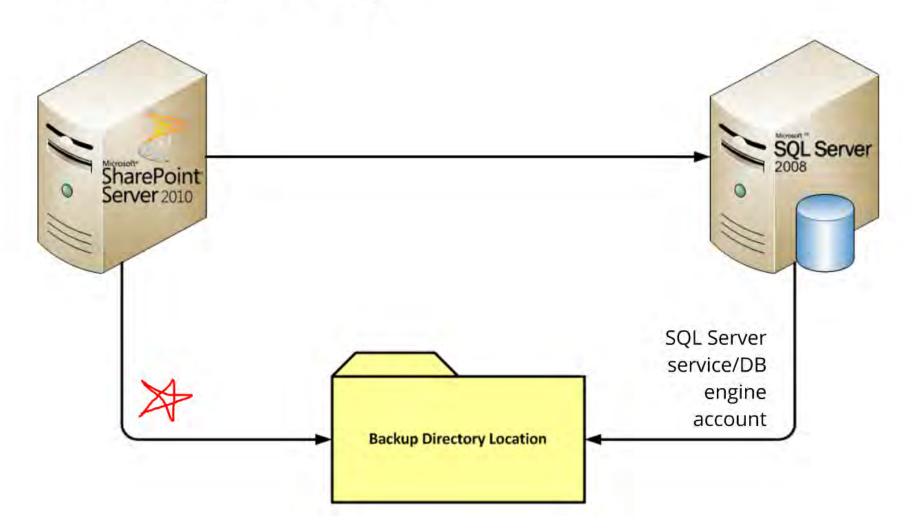
SPFarm (Top-I

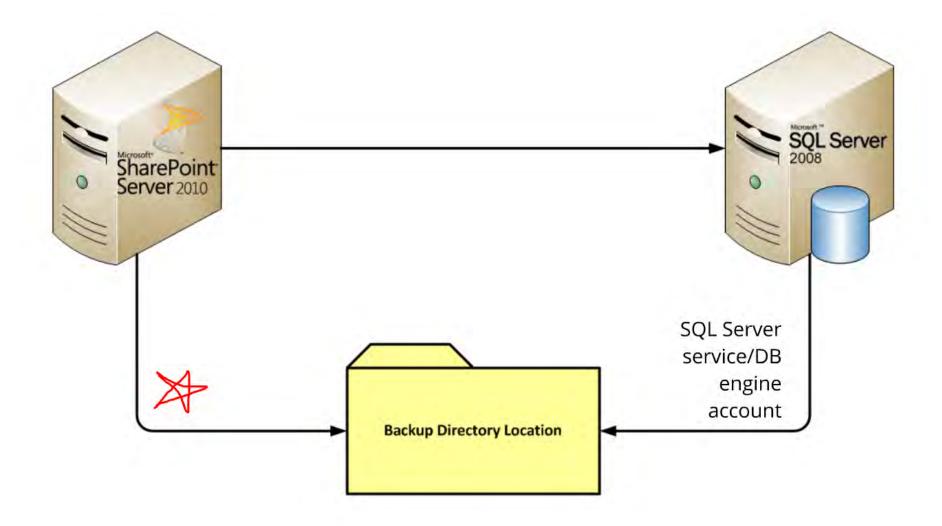
SPService (Service

SPWebApplication(W

SPDatabase (Content Databas

 Understand the permissions you need before you begin





#### Central Admin

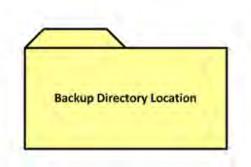
SharePoint
Timer Service
account context

#### Command Line/PowerShell

Your account context! Make sure you've got rights. (e.g., through Add-SPShellAdmin)

Read/write access required for accounts

 Your backup directory location needs to be a UNC path unless you're on a single server (SQL Server + SharePoint)



- Plan your storage! Backups will grow to consume all available disk space unless you somehow groom them ...
- For automated protection, you'll need Windows Task Scheduler

 When you do a restore, you'll need an operational (patched\*) SharePoint farm.

Somewhat counter-intuitive until you think through it ...

 Full farm is really only "full" from a SharePoint-centric view of the universe.

You still need protection for decentralized customizations, manual IIS changes, etc.



Component	Type	Description
Farm	Farm	Content and configuration data for the entire server farm.
SP2010_FarmConfig	Configuration Database	Configuration data for the entire server farm.
☐ InfoPath Forms Services	Server Settings and Content	Administrator-approved content and settings for the server farm.
Settings	Settings	Settings
Data Connections	Data Connections	Administrator-approved data connection files.
Form Templates	Form Templates	Administrator-approved form templates.
■ Exempt User Agents	Exempt User Agents	The collection of user agents that receive InfoPath forms instead of Web pages.
☐ SharePoint Server State Service	State Service	Service for storage of temporary state information used by various SharePoint Server features.
■ State Service	State Service Application	by various straight out out yet restailes.
☐ Microsoft SharePoint Foundation Web Application	Microsoft SharePoint Foundation Web Application	Collection of Web Applications
■ MySiteHostWebApp	Web Application	Content and configuration data for this Web application.
PortalWebApp	Web Application	Content and configuration data for this Web application.
■ WSS_Administration ■ SharePoint Central Administration v4	Central Administration Web Application	Collection of Web Applications Content and configuration data for this Web application.
☐ SharePoint Server State Service Proxy	State Service Proxy	
State Service	State Service Application Proxy	
■ SPUserCodeV4	Microsoft SharePoint Foundation Sandboxed Code Service	Settings for the Sandboxed Code Service.
[Solution Validators Group.]	Backup Group	Collection of components grouped together for backup and restore.
Sandboxed Code Load Balancer Provider using Popularit	Sandboxed Code Load Balancer Provider using Popularity	
[Resource Measures Group.]	Backup Group	Collection of components grouped together for backup and restore.
[Execution Tiers Group.]	Backup Group	Collection of components grouped together for backup and restore.
Microsoft SharePoint Server Diagnostics Service	Microsoft SharePoint Server Diagnostics Service	Settings for the diagnostics service.
Global Search Settings	Search object in configuration database	Crawler impact rules for the farm
Application Registry Service	Application Registry Service	Backwards compatible Business Data Connectivity API.
Microsoft Office Web Apps Diagnostics Service	Microsoft Office Web Apps Diagnostics Service	Settings for the diagnostics service.
Microsoft SQL Server Reporting Services Diagnostics Service	Microsoft SQL Server Reporting Services Diagnostics Service	Settings for the diagnostics service.
Microsoft SharePoint Foundation Diagnostics Service	Microsoft SharePoint Foundation Diagnostics Service	Settings for the diagnostics service,
☐ Shared Services	Shared Services	Shared Services of the server farm.
■ Shared Services Applications	Shared Services Applications	Shared Services Applications of the server farm.
■ Shared Services Proxies	Shared Services Proxies	Shared Services Applications of the server farm.

 When you do a restore, you'll need an operational (patched\*) SharePoint farm.

Somewhat counter-intuitive until you think through it ...

 Full farm is really only "full" from a SharePoint-centric view of the universe.

You still need protection for decentralized customizations, manual IIS changes, etc.



## Exercise

## Plan



"The Treasure Trove of Lost Goodness"

- You are an administrator working for a large candy company that collaborates through SharePoint
- Your farm was completely flatlined, and you've been handed a new SharePoint environment (devoid of content) in order to rebuild
- You have backups (in various forms) to use in order to put "Humpty Dumpty" back together again

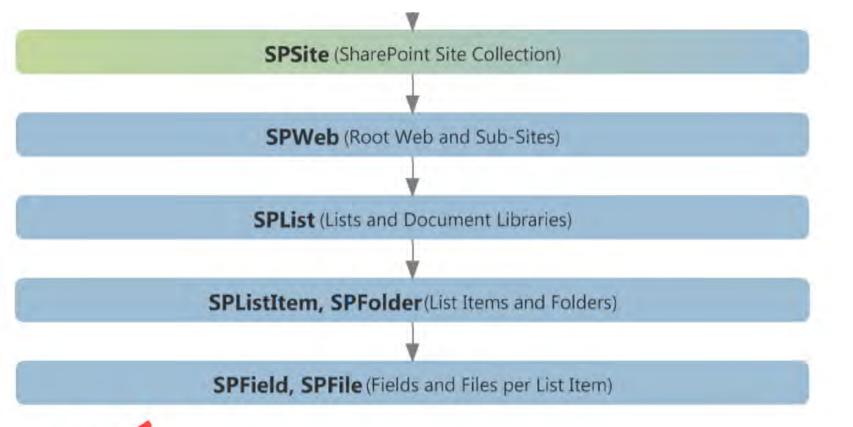
## Exercises

1 & 2



"The Treasure Trove of Lost Goodness"

- 1. Restore a web application and content database from a SharePoint backup set
- 2. Restore a content database from SQL Server backup and mount it into the web application





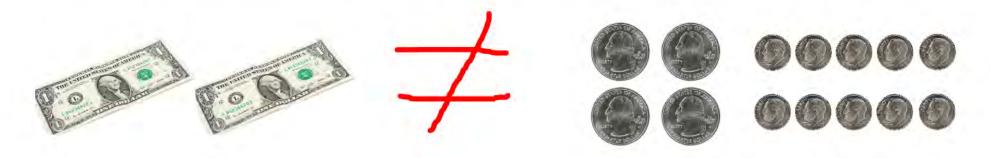
- Export-SPWeb
- Import-SPWeb
- STSADM -o export
- STSADM -o import

- You (or Timer Service account) require access to export/import location
- Do you have SQL Server Enterprise?
   Consider the -UseSqlSnapshot switch
- Imports must be done from the command line, but Exports can be done in Central Admin (much easier)

- Unattached database recovery is your friend: use it (via Central Administration)
- Publishing sites cause problems for some export/import operations.
- Be careful if you are importing into a (sub-) site that is based on a template that is different from the source (export) site or sub-site

#### Remember

Content deployment is an export process



#### What you lose:

- alerts
- audit trails
- change log history

- recycle-bin items
- workflow tasks/state
- ...

### Exercises

3 & 4



"The Treasure Trove of Lost Goodness"

- 3. Restore another content database for unattached DB export of the Caramel list
- 4. Execute library exports from the Chocolate and PeanutButter site collections

Save the export packages for subsequent exercises ...

#### SPService (S

**SPWebApplicatio** 

SPDatabase (Content Da

SPSite

SPWeb

SPList (Li

SPListItem, S

SPField, SPF

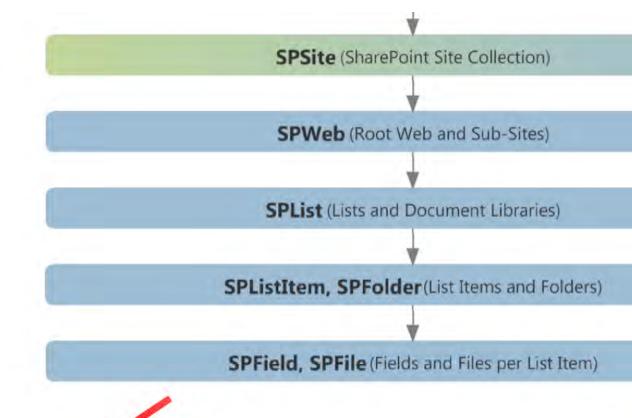
## Site Collection backup

- Backup-SPSite
- Restore-SPSite
- STSADM -o
   backup with
   -url specified

## Site Collection backup

- Backup-SPSite
- Restore-SPSite
- STSADM -o backup with -url specified

Yes, site collections can be both backed-up and exported.



Content export (via the Content Deployment API aka PRIME API)

- Stay away from the -NoSiteLock switch
- Do you have SQL Server Enterprise?
   Consider the -UseSqlSnapshot switch
- The recycle bin and gradual site deletion jobs can impact your restore operations
- GUID collisions happen. It's okay; create another database to restore to the same (source) Web Application

# Exercises 5 & 6



- 5. Restore the primary Treasure Trove site collection from site collection backup file
- 6. Import the three lists (into Treasure Trove) that had previously been exported

SQL Server Database backups can also be used to great effect here

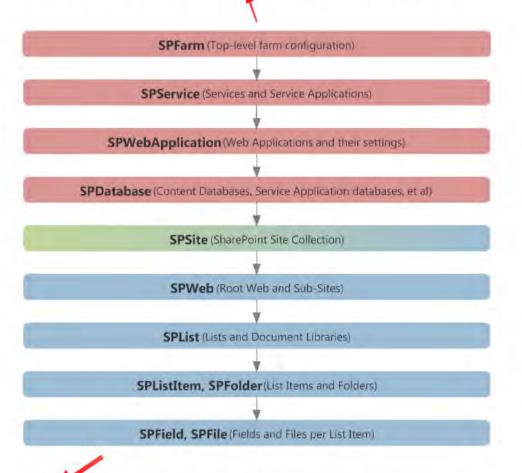
#### Site Collection backup

- Backup-SPSite
- Restore-SPSite
- STSADM -o backup with -url specified

Yes, site collections can be both backed-up and exported.

#### "Catastrophic" farm protection

- Backup-SPFarm
- · Restore-SPFarm
- STSADM -o backup with -filename specified



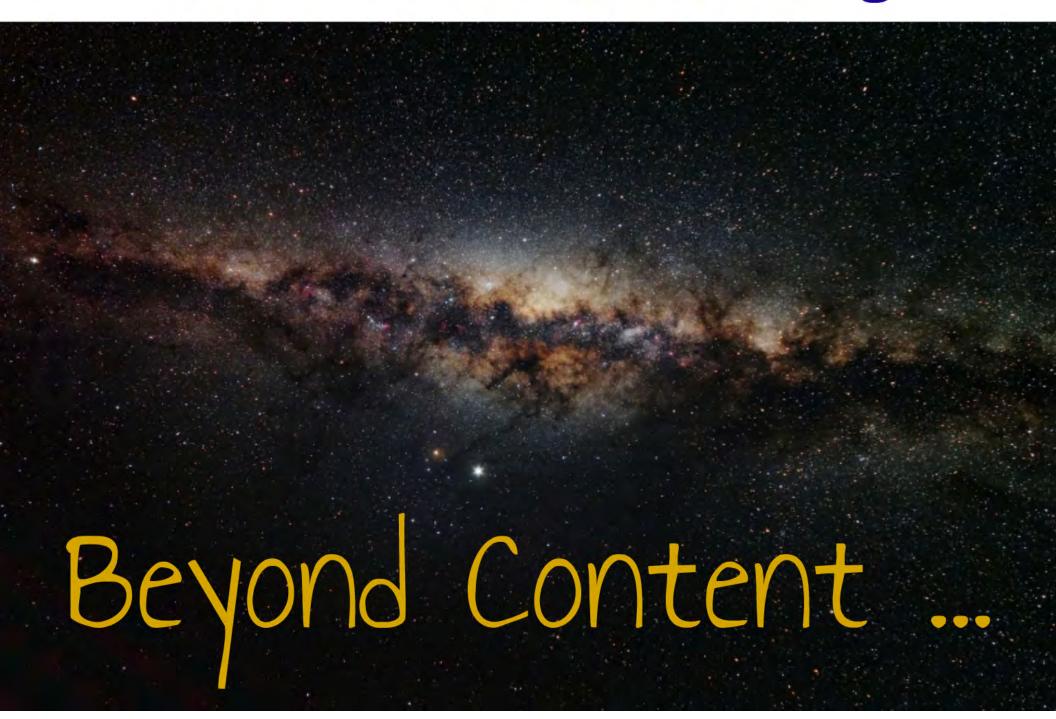
Content export (via the Content Deployment API aka PRIME API)

- Export-SPWeb
- Import-SPWeb
- STSADM -o export
- STSADM -o import

Backup and export
"cheat sheet"

#### The Art of Restoring

#### The Art of Restoring



## Backup is ascience

Backup is a science

Restore is an art





From here on out, actual results depend on many different factors

Net: a particular operation may succeed, fail, or both based on data, environment, configuration, time of day, phase of moon ...

### Service Applications

- are unique in that they typically house both configuration and content
- Despite a common Service Application Framework, each service app is unique and has its own twists/eccentricities
- present some of the more difficult restore challenges

## Bad news

Service application restores can be hard



## Bad news

Service application restores can be hard

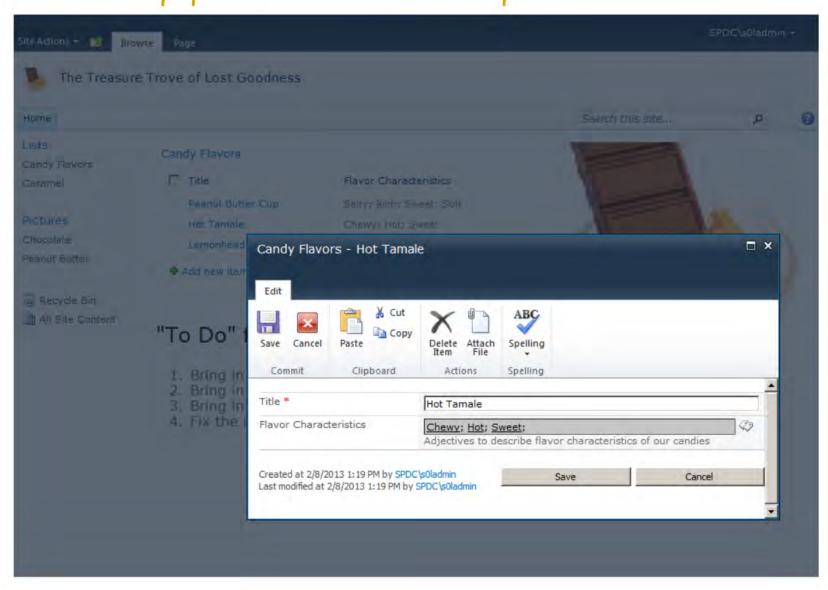


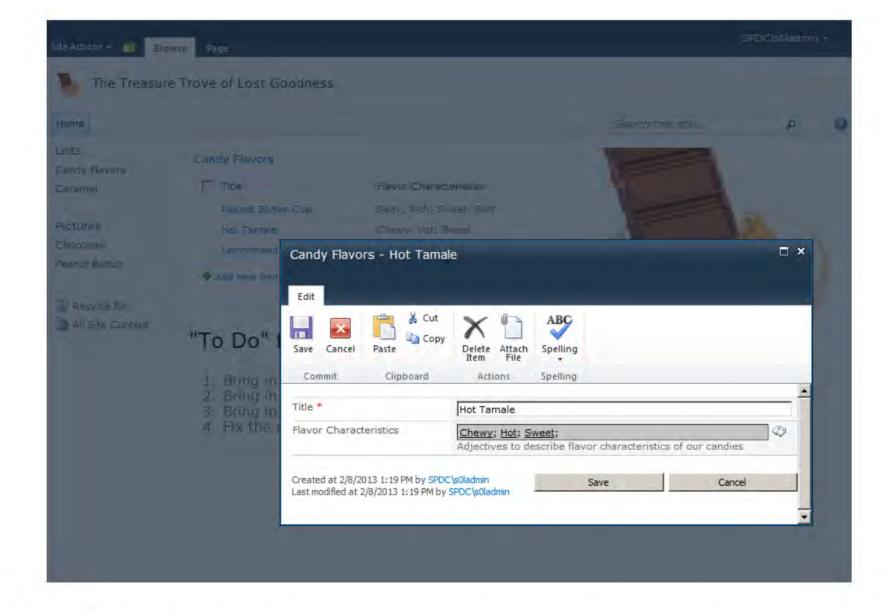
OOTB tools are wellpositioned for restores!





## Let's look at the Treasure Trove site's service application lineup





- Secure Store Service App: Missing
- Managed Metadata Service App: No Terms

Secure Store Service App: Missing

(SQL Server) databases

Managed Metadata Service App: No Terms

#### Common CHOICE BEST CHOICE Options SELECT GOOD CHOICE Restore entire service app from backup Rebuild using restored

# Exercises 7 & 8



- 7. Restore Secure Store Service Application from full-farm backup
- 8. Rebuild Managed Metadata Service Application from SQL Server DB backup

#### Configuration-Only Backup and



#### Configuration-Only Backup and



What exactly is it? ... and is it useful?

## What exactly is it?

- an extension of the existing catastrophic backup/restore API
- components report their "portable" configuration data
- captured as a standard backup set
- backup set can then be restored either in-place (to restore a farm's previous settings) or out-of-place (to copy one farm's settings to another)

# ... and is it useful?

# Captures the following:

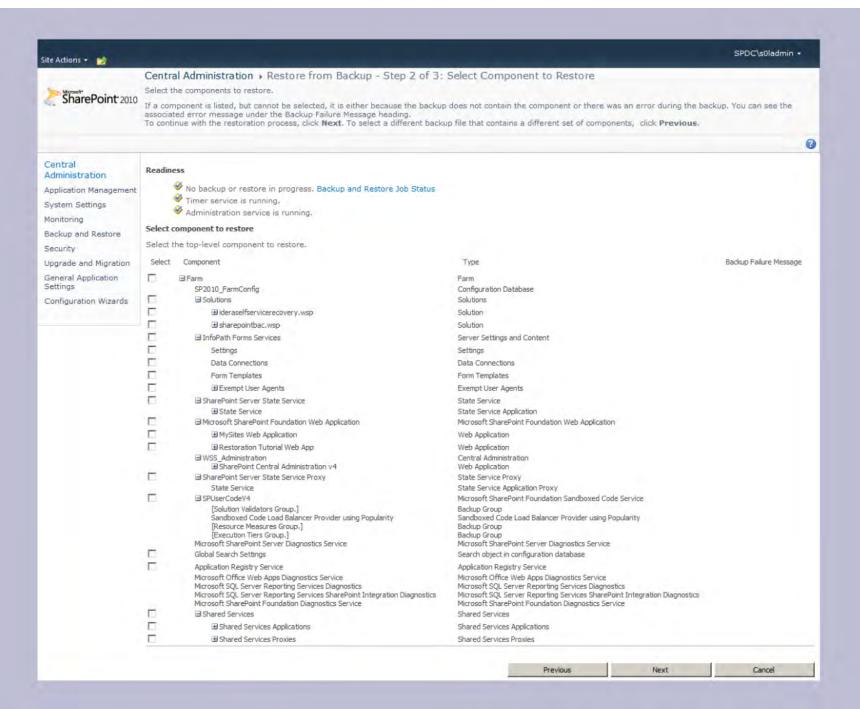
- Antivirus settings
- Information rights management (IRM) settings
- Outbound e-mail settings
- Diagnostic logging settings
- Customizations deployed as trusted solutions

## Captures the following:

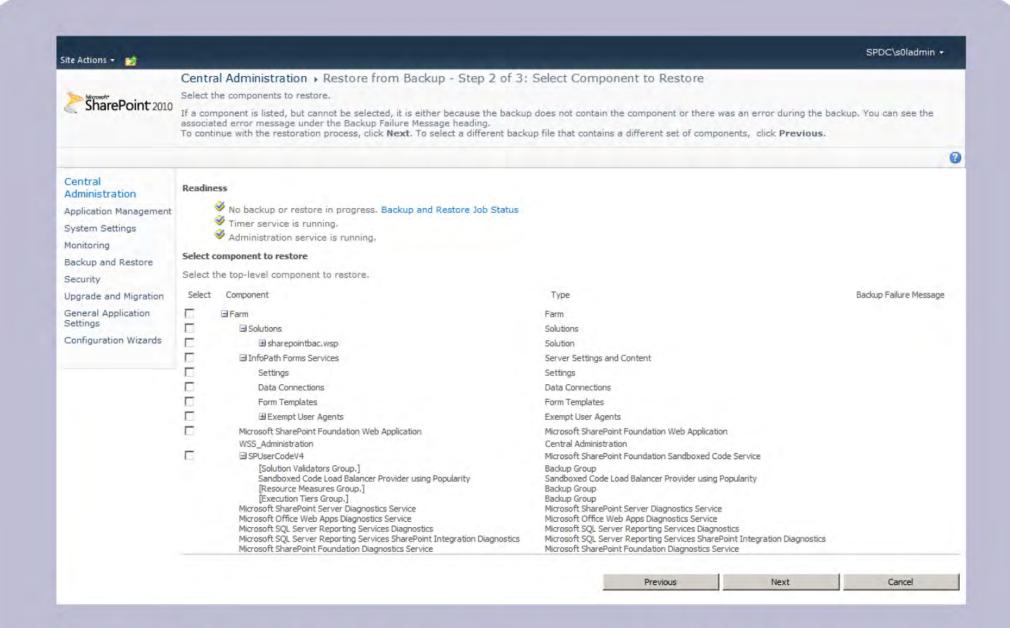
- Antivirus settings
- Information rights management (IRM) settings
- Outbound e-mail settings
- Diagnostic logging settings
- Customizations deployed as trusted solutions

Does that list look a little "lite" to you?





## Restore: content + config



# Restore: configuration only

S Administration service is running. Select component to restore store Select the top-level component to restore. Select Component igration ation ∃ Farm ■ Solutions Vizards ■ InfoPath Forms Services Settings Data Connections Form Templates ■ Exempt User Agents

# Exercises 9 & 10



- 9. Perform a configuration-only backup against another farm's restored farm configuration database
- 10. Restore the farm solution store from the configuration-only backup set

# The Problem of the Cart and the Horse



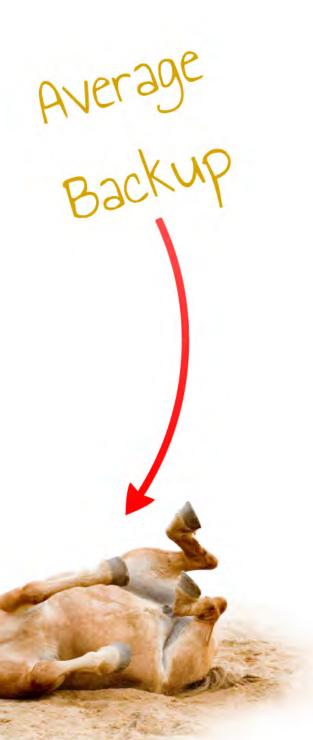
We've focused almost exclusively on putting SharePoint back together

The Problem of the Cart and the Horse

We've focused almost exclusively on putting SharePoint back together

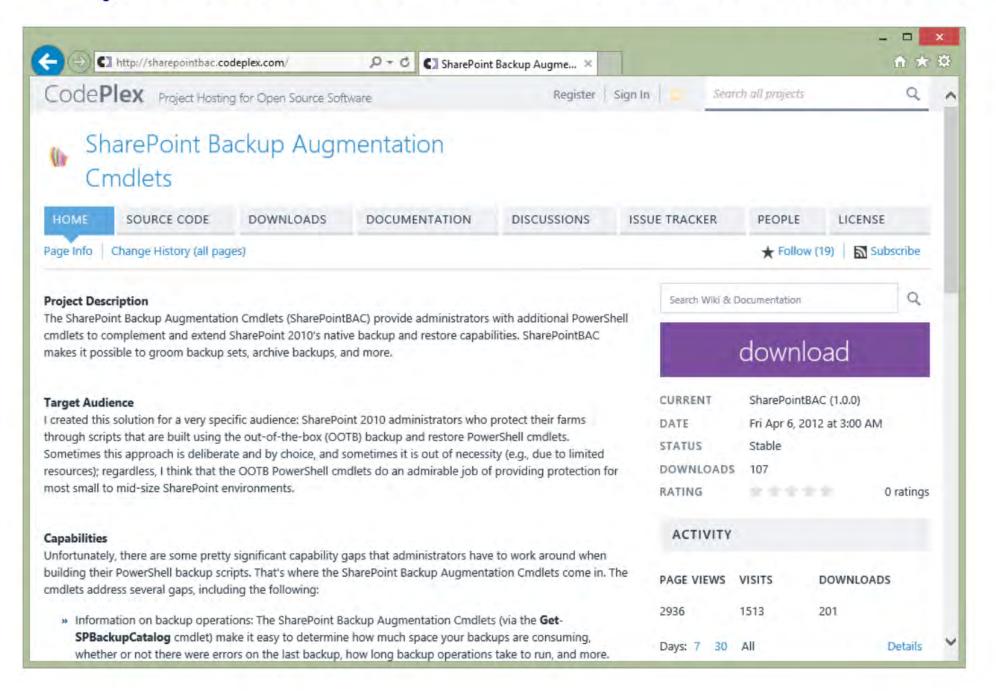
# The Problem of the Cart and the Horse

If your backups aren't predictable, reliable, and maintained, then the cart itself is relatively useless



# My Solution

## My Solution: SharePointBAC

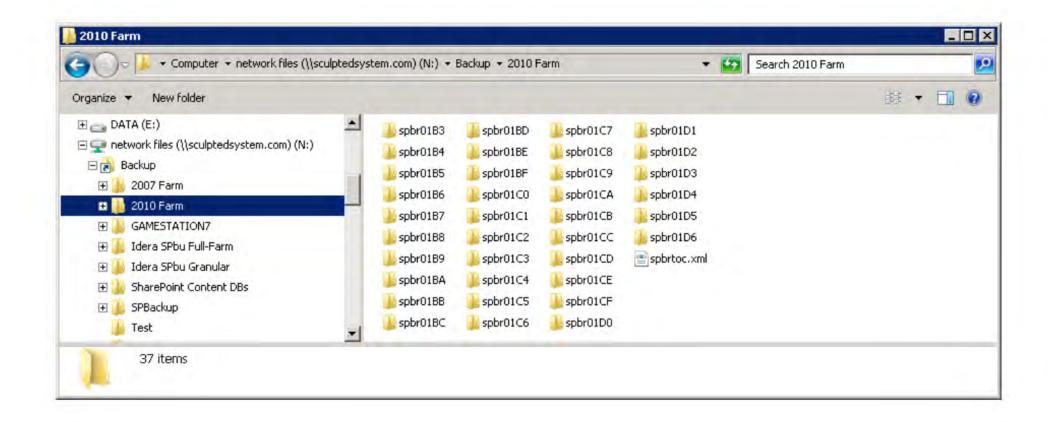


# Consider a small farm with ~10GB of data ...

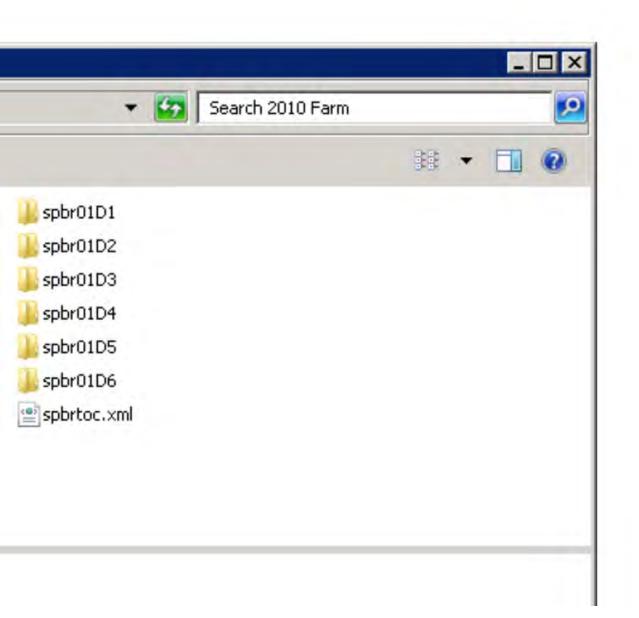
# Consider a small farm with ~10GB of data ...

... which just happens to be one of my home environments

# ... which just happens to be one of my home environments



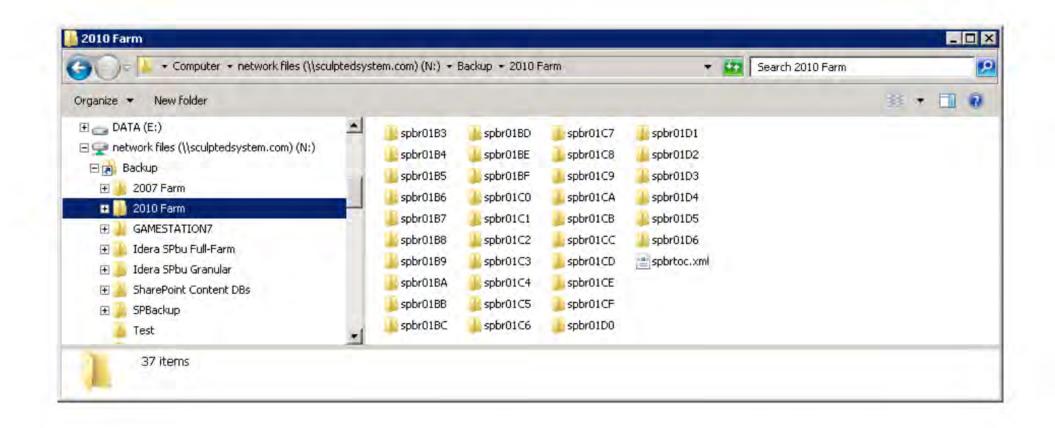
# nvironments



Small footnote:

01D6 (hex) is 470 (decimal)

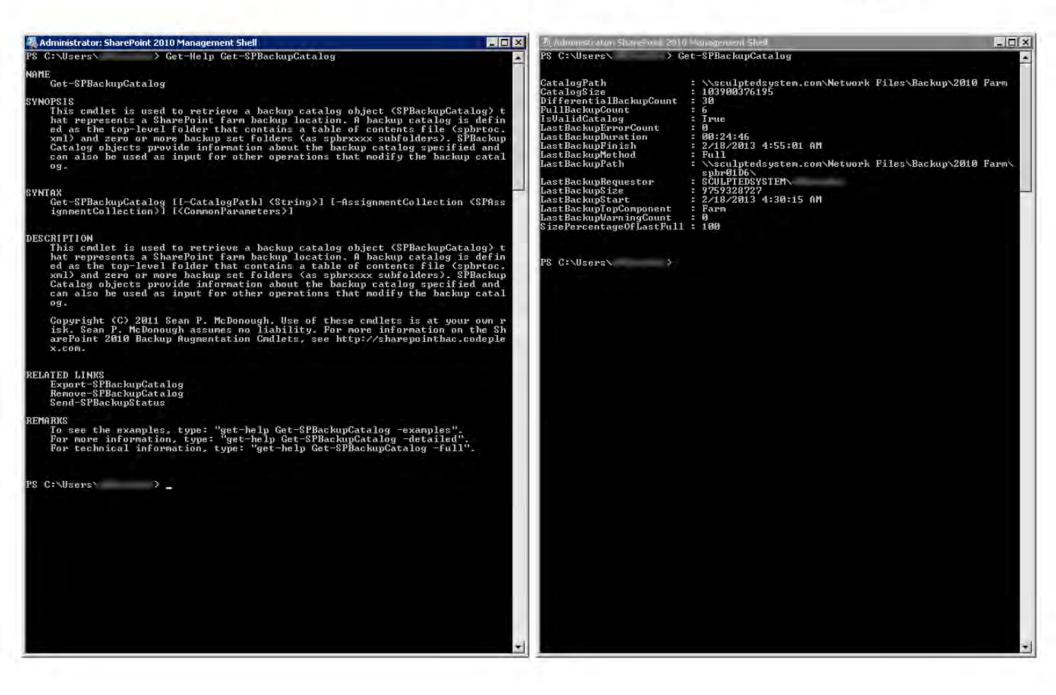
SharePointBAC has been part of my backup strategy for 470 days



To learn more about the backup "catalog" itself:

Get-SPBackupCatalog

# Get-SPBackupCatalog



#### NAME

Get-SPBackupCatalog

#### SYNOPSIS

This cmdlet is used to retrieve a backup catalog object (SPBackupCatalog) that represents a SharePoint farm backup location. A backup catalog is defined as the top-level folder that contains a table of contents file (spbrtoc.xml) and zero or more backup set folders (as spbrxxxx subfolders). SPBackup Catalog objects provide information about the backup catalog specified and can also be used as input for other operations that modify the backup catalog.

#### SYNTAX

Get-SPBackupCatalog [[-CatalogPath] <String>] [-AssignmentCollection <SPAssignmentCollection>] [<CommonParameters>]

#### DESCRIPTION

This cmdlet is used to retrieve a backup catalog object (SPBackupCatalog) that represents a SharePoint farm backup location. A backup catalog is defined as the top-level folder that contains a table of contents file (spbrtoc.xml) and zero or more backup set folders (as spbrxxxx subfolders). SPBackup Catalog objects provide information about the backup catalog specified and can also be used as input for other operations that modify the backup catalog.

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#### RELATED LINKS

Export-SPBackupCatalog Remove-SPBackupCatalog Send-SPBackupStatus

#### REMARKS

To see the examples, type: "get-help Get-SPBackupCatalog -examples".
For more information, type: "get-help Get-SPBackupCatalog -detailed".
For technical information, type: "get-help Get-SPBackupCatalog -full".

CatalogPath : \\sculptedsystem.com\Network Files\Backup\2010 Farm : 103900376195 CatalogSize DifferentialBackupCount : 30 FullBackupCount : True IsValidCatalog LastBackupErrorCount LastBackupDuration : 00:24:46 LastBackupFinish : 2/18/2013 4:55:01 AM LastBackupMethod : Full : \\sculptedsystem.com\Network Files\Backup\2010 Farm\ LastBackupPath spbr01D6\ : SCULPTEDSYSTEMN LastBackupRequestor : 9759328727 LastBackupSize : 2/18/2013 4:30:15 AM LastBackupStart LastBackupTopComponent : Farm

LastBackupTopComponent : Farm LastBackupWarningCount : 0 SizePercentageOfLastFull : 100

PS C:\Users\

## Common need:

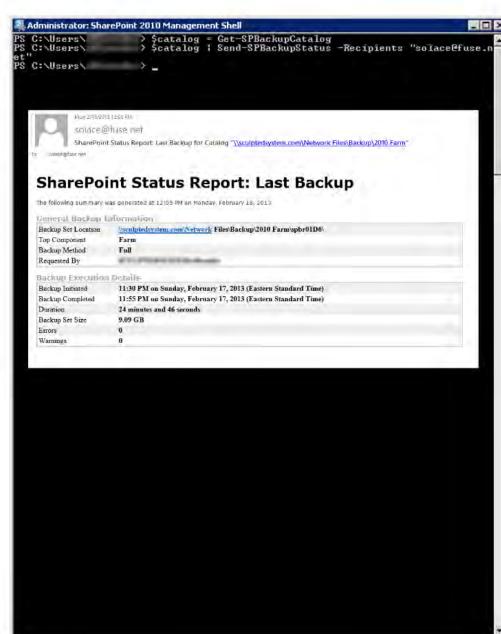
I'd like to understand what's happening with my backups without having to manually review logs every day.

To send an email status for the last backup run:

Send-SPBackupStatus

# Send-SPBackupStatus





Send-SPBackupStatus

#### SYNOPSIS

PS C:\Users\

This cmdlet is used to send an e-mail to one or more recipients to communic ate the backup status of a specific backup catalog. This is commonly done following a backup to let administrators know that a backup has taken place, if the backup contains errors, where the backup set was created, and more. E-mail messages are sent using the farm's configured outbound e-mail settings.

#### SYNTAX

Send-SPBackupStatus [-Identity] <SPBackupCatalogPipeBind> [-OnErrorOnly <SwitchParameter>] [-Recipients] <String> [[-Subject] <String>] [-AssignmentCollection>] [<CommonParameters>]

#### DESCRIPTION

This cmdlet is used to send an e-mail to one or more recipients to communic ate the backup status of a specific backup catalog. This is commonly done following a backup to let administrators know that a backup has taken place, if the backup contains errors, where the backup set was created, and more. E-mail messages are sent using the farm's configured outbound e-mail settings.

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#### RELATED LINKS

Get-SPBackupCatalog

#### REMARKS

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For more information, type: "get-help Send-SPBackupStatus -detailed".
For technical information, type: "get-help Send-SPBackupStatus -full".



Mon 2/18/2013 12:05 PM

solace@fuse.net

SharePoint Status Report: Last Backup for Catalog "\\sculptedsystem.com\Network Files\Backup\2010 Farm"

To solace@fuse.net

#### **SharePoint Status Report: Last Backup**

The following summary was generated at 12:05 PM on Monday, February 18, 2013

General Backup Information

Backup Set Location \(\sculptedsystem.com\Network\) Files\Backup\2010 Farm\spbr01D6\

Top Component Farm
Backup Method Full

Requested By

**Backup Execution Details** 

Backup Initiated 11:30 PM on Sunday, February 17, 2013 (Eastern Standard Time)

Backup Completed 11:55 PM on Sunday, February 17, 2013 (Eastern Standard Time)

Duration 24 minutes and 46 seconds

Backup Set Size 9.09 GB

Errors 0

Warnings 0

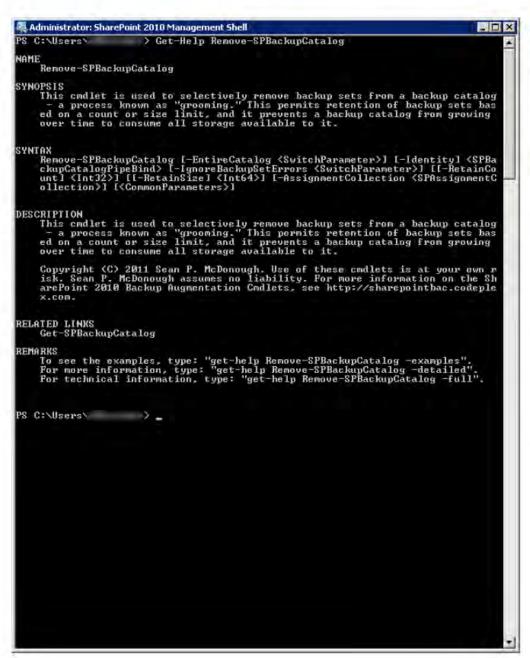
## Common need:

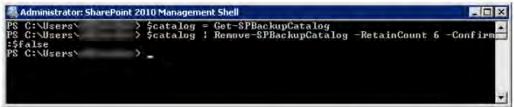
Backups will grow to consume all my available storage. I'd like an automated way of keeping that under control.

To groom the backup catalog to remove old backup sets:

Remove-SPBackupCatalog

# Remove-SPBackupCatalog





#### Deletion is a senstive topic. I understand.

- -RetainCount and -RetainSize can be combined to restrict based on catalog size and backup count (note: size trumps count)
- Remove-SPBackupCatalog will not let you accidentally wipe-out all backups; you need to use -EntireCatalog to clear all backup sets
- Grooming will not allow "good" backup sets (i.e., those without errors) to get wiped from rotation unless -IgnoreBackupSetErrors is used

#### NAME

Remove-SPBackupCatalog

#### SYNOPSIS

This cmdlet is used to selectively remove backup sets from a backup catalog — a process known as "grooming." This permits retention of backup sets bas ed on a count or size limit, and it prevents a backup catalog from growing over time to consume all storage available to it.

#### SYNTAX

Remove-SPBackupCatalog [-EntireCatalog <SwitchParameter>] [-Identity] <SPBackupCatalogPipeBind> [-IgnoreBackupSetErrors <SwitchParameter>] [[-RetainCount] <Int32>] [[-RetainSize] <Int64>] [-AssignmentCollection <SPAssignmentCollection>] [<CommonParameters>]

#### DESCRIPTION

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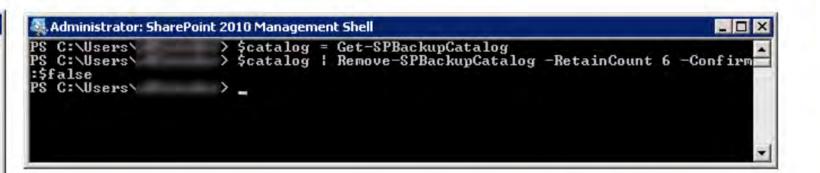
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- RetainCount and -RetainSize can be combined to restrict based on catalog size and backup count (note: size trumps count)
- Remove-SPBackupCatalog will not let you accidentally wipe-out all backups; you need to use -EntireCatalog to clear all backup sets
- Grooming will not allow "good" backup sets (i.e., those without errors) to get wiped from rotation unless -IgnoreBackupSetErrors is used



## A couple of other tricks

I'd like to zip-up and archive some backup sets before removing them.

Export-SPBackupCatalog

I need to restore from a backup set in another environment (with a different backup location)

Set-SPBackupCatalog

#### BackupFarm.ps1 <# .SYNOPSIS 3 A very basic full-farm backup script for SharePoint 2010 environments 4 .DESCRIPTION 5 This backup script creates a full-mode backup of the farm every Sunday nig. 6 other nights of the week, it creates differential backups. After each back 7 grooming is carried out to see if some reduction is necessary. 8 #> 9 10 # Indicate the backup is about to begin 11 New-EventLog -LogName "Application" -Source "BackupFarm.ps1" -ErrorAction sile 12 Write-EventLog -LogName "application" -Source "BackupFarm.ps1" -EventID 10000 13 14 # Ensure that the SharePoint cmdlets are loaded before continuing 15 Write-EventLog -LogName "Application" -Source "BackupFarm.ps1" -EventID 10001 10 SspCmdlets = Get-PSSnapin Microsoft.SharePoint.PowerShell -ErrorAction silent 17 if (SspCmdlets -eq SNull) 18 { Add-PSSnapin Microsoft.SharePoint.PowerShell } 19 Write-EventLog -LogName "Application" -Source "BackupFarm.ps1" -EventID 10002 20 21 # Establish any baseline values needed 22 SbackupLocation = "\\sculptedsystem.com\Network Files\Backup\2010 Farm" 23 SretainBackupCount = 6 24 25 # Get the day of the week to determine if this will be a full backup or diffe: 26 # backup; then carry out the backup. 27 Stoday = (Get-Date).DayOfWeek 28 Write-EventLog -LogName "Application" -Source "BackupFarm.psl" -EventID 10003 29 30 if (Stoday -eq "Sunday") 31 32 Write-EventLog -LogName "Application" -Source "BackupFarm.ps1" -EventID 1 33 Backup-SPFarm -Directory SbackupLocation -BackupMethod Full 34 Write-EventLog -LogName "Application" -Source "BackupFarm.ps1" -EventID 1 35 36 else 37 □ { 38 Write-EventLog -LogName "Application" -Source "BackupFarm.ps1" -EventID 11 39 Backup-SPFarm -Directory SbackupLocation -BackupMethod Differential

Write-EventLog -LogName "Application" -Source "BackupFarm.ps1" -EventID 1

# Groom the backup set to ensure that we maintain a max of six full backups
Write-Frentley -LogName "inplication" -Source "Recompliant nai" -FrentID 1990

40

41

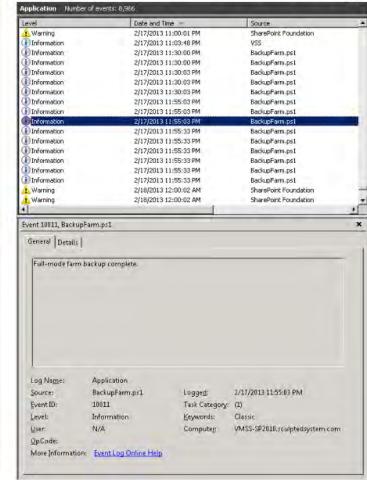
42

43

#### PowerShell Script

# BackupFarm.ps1

### **Application Event Log**



You certainly don't need to use my script and PowerShell cmdlets ...

You certainly don't need to use my script and PowerShell cmdlets ...

... but you need a maintenance plan for your backups.





A Couple More Free Tools

(to give you some additional options)

\* John Ferringer's farm backup script

\* Chris O'Brien's content deployment wizard

(links in "Resources" at end of presentation)

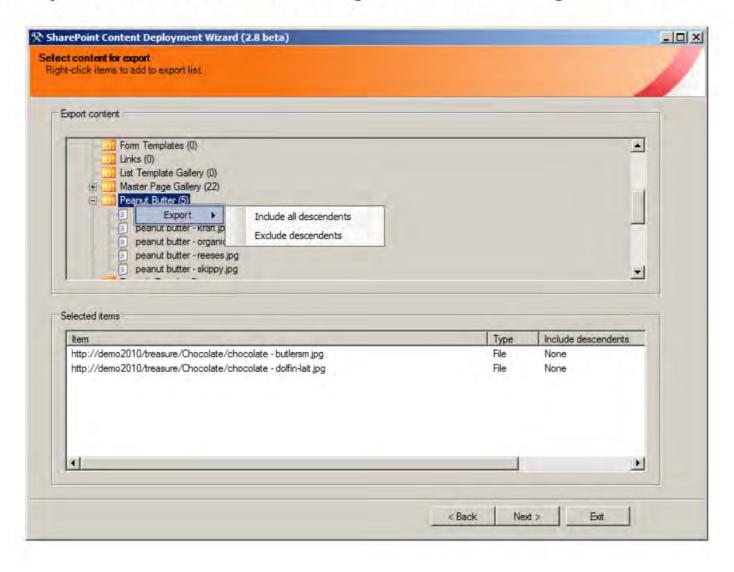
### John Ferringer's Farm Backup (PowerShell) Script

```
SYNOPSIS
 Backs up a SharePoint farm on a scheduled basis.
 DESCRIPTION
 At its core, the BackupSharePoint script backs up a Shar
 scheduled task, it generates a full farm backup once a w
 backups all other days. It also deletes the oldest backu
 storage management.
PARAMETER
 -drive <string[]>
     Indicates the drive letter of the server where the
     also assumes this drive also hosts the shared direct
 -backupDir <string[]>
     The shared UNC path for your backups to be stored in
     Example: \\<YOUR SHAREPOINT SERVER>\<YOUR BACKUP FOI
 -fullBackupDay <string[]>
     The day that a full backup should be run on.
     Example: "Sunday"
 -configDBInstance <string[]>
     The SQL Server Database Server and Instance name hos
     configuration database. Example: "<YOUR SQL SERVER>
 -configDBName <string[]>
     The name of the farm's SharePoint configuration data
     Example: "<YOUR CONFIG DB>"
 -nbrDaysRetained <string[]>
     The number of days that backups should be retained.
 -Computer <string()>
     The name of the computer the script is being run on.
     will default to the local computer name environment
 EXAMPLE
                      ---- EXAMPLE 1
.\BackupSharePoint.ps1 -drive "C:" -backupDir "\\server\b
    -fullBackupDay "Sunday" -configDBInstance sql\sql01
    -nbrDaysRetained 14
This command generates a backup of a SharePoint 2010 envi
```

- Great as-is or as a starting point for your own farm protection script
- Works for SharePoint 2007 and SharePoint 2010
- Includes backup directory rotation to avoid complete consumption of all available storage space

### Chris O'Brien's Content Deployment Wizard

Provides significantly enhanced content export and import functionality in an easy-to-use UI



## Resources

### Backup and recovery overview (SharePoint Server 2010)

http://technet.microsoft.com/en-us/library/ee663490

## Configuration-Only Backup and Restore in SharePoint 2010

 http://sharepointinterface.com/2010/09/10/configuration-onlybackup-and-restore-in-sharepoint-2010/

### A Tale of Two Cmdlets

http://sharepointinterface.com/2010/10/03/a-tale-of-two-cmdlets/

## Scheduling SQL backups for SharePoint

http://www.toddklindt.com/blog/Lists/Posts/Post.aspx?ID=248

## Limitations of STSADM -o export/import related to publishing sites • http://blogs.technet.com/b/stefan\_gossner/archive/2009/05/27/

 http://blogs.technet.com/b/stefan\_gossner/archive/2009/05/27/ limitations-of-stsadm-o-export-import-related-to-publishingsites.aspx

## Resources

### Gradual Site Collection Deletion

http://reality-tech.com/2012/04/04/gradual-site-collection-deletion/

## The Importance of Consistency when Creating SharePoint Backups

 http://www.idera.com/Downloads/ProdCollateral/Consistency-Creating-SharePoint-Backups.pdf

## Use PowerShell to Back Up Your SharePoint Farm http://blogs.technet.com/b/heyscriptingguy/

 http://blogs.technet.com/b/heyscriptingguy/ archive/2011/06/22/use-powershell-to-back-up-yoursharepoint-farm.aspx

### SharePoint Backup Augmentation Cmdlets (SharePointBAC)

http://sharepointbac.codeplex.com/

## SharePoint Content Deployment Wizard

http://spdeploymentwizard.codeplex.com/

## Resources

# Restore a Service Application in SharePoint 2010 - <a href="http://technet.microsoft.com/en-us/library/ee428305">http://technet.microsoft.com/en-us/library/ee428305</a>(v=office.14).aspx

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About: http://about.me/spmcdonough



SharePoint 2010 Disaster Recovery Guide http://tinyurl.com/SPDRGuide2010



SharePoint 2007 Disaster Recovery Guide http://tinyurl.com/SPDRGuide2007