

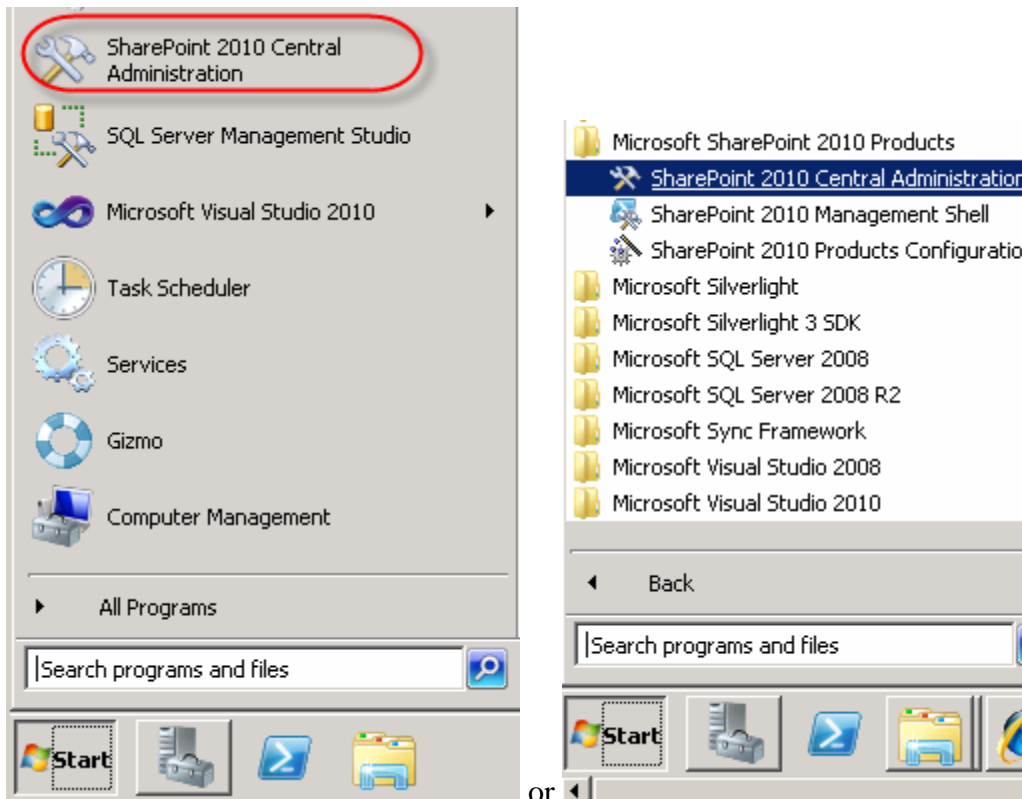
KEVIN O'NEILL

SharePoint 2010 Backup and Restore Using Central Administrator & Powershell

Farm Backup	1
Farm Restore:	6
Granular Backup:	11
Creating a Farm Backup using Powershell:	14
Performing a Farm Restore using Powershell:	15
Performing a Site Backup using Powershell:	17
Performing a Site Restore using Powershell:	17

Farm Backup


Access Central Administration



KEVIN O'NEILL

Select Backup and Restore:

[+ Add new link](#)



[Backup and Restore](#)
Perform a backup
Restore from a backup
Perform a site collection backup

Perform a backup or restore operation, or view history and status details

Select Configure backup settings:



[Farm Backup and Restore](#)
[Perform a backup](#) | [Restore from a backup](#) | [Configure backup settings](#) |
[View backup and restore history](#) | [Check backup and restore job status](#)

Set-up the options as desired – make sure that in the Backup File Location under Backup location that a share such as [\\backup\Sharepoint](#) to utilize is provided or a path such as D:\backup\SharePoint is utilized. Note that the service accounts that SharePoint is running under will need full control to this directory. Also note: that if you are using tape back-ups SharePoint 2010 must first write the data to a share or directory – then the tape mechanism can be pointed at that location to back-up the contents:

Number of Threads Specify the number of threads to use for backup and restore. More threads may lead to improved performance, however, information in the log files for backup and restore may become more difficult to read.	Number of backup threads: <input type="text" value="3"/> Possible Values: 1-10 Number of restore threads: <input type="text" value="3"/> Possible Values: 1-10
Backup File Location Each backup job is stored in a separate folder in the location you specify, and each object is backed up to an individual file in that folder. Learn about backup locations.	Backup location: <input type="text" value="D:\backup\Sharepoint"/> Example: \\backup\SharePoint

Once done select OK

Under Farm Backup and Restore click Perform a backup:






[Farm Backup and Restore](#)
[Perform a backup](#) | [Restore from a backup](#) | [Configure backup settings](#) |
[View backup and restore history](#) | [Check backup and restore job status](#)

Backup portions of this farm to a file

KEVIN O'NEILL

Select the items to Backup and then click the Next button:

Readiness

-  No backup or restore in progress. [Backup and Restore Job Status](#)
-  Timer service is running.
-  Administration service is running.

Select component to back up




Select the top-level component to back up. You can also click the name of a Web application to browse its contents.

Select	Component	Type	Description
<input type="checkbox"/>	<input checked="" type="checkbox"/> Farm	Farm	Content and configuration data for the entire server farm.
	SharePoint10_Config	Configuration Database	Configuration data for the entire server farm.
<input type="checkbox"/>	<input checked="" type="checkbox"/> Solutions	Solutions	Collection custom solutions.
<input type="checkbox"/>	<input checked="" type="checkbox"/> InfoPath Forms Services	Server Settings and Content	Administrator-approved content and settings for the server farm.
<input type="checkbox"/>	Settings	Settings	Settings
<input type="checkbox"/>	Data Connections	Data Connections	Administrator-approved data connection files.
<input type="checkbox"/>	Form Templates	Form Templates	Administrator-approved form templates.
<input type="checkbox"/>	<input checked="" type="checkbox"/> Exempt User Agents	Exempt User Agents	The collection of user agents that receive InfoPath forms instead of Web pages.
<input type="checkbox"/>	<input checked="" type="checkbox"/> SharePoint Server State Service	State Service	Service for storage of temporary state information used by various SharePoint Server features.
	State Service	State Service Application	
<input type="checkbox"/>	<input checked="" type="checkbox"/> Microsoft SharePoint Foundation Web Application	Microsoft SharePoint Foundation Web Application	Collection of Web Applications
<input type="checkbox"/>	<input checked="" type="checkbox"/> PerformancePoint - 44850	Web Application	Content and configuration data for this Web application.
<input type="checkbox"/>	<input checked="" type="checkbox"/> SharePoint - 80	Web Application	Content and configuration data for this Web application.

Select the desired configuration then click Start Backup. Note: a Full Backup will back-up all items selected in the Farm while a Differential only backups those items that have changed – You need to do a full back up once before a Differential can be done.

KEVIN O'NEILL

Readiness

-  No backup or restore in progress. [Backup and Restore Job Status](#)
-  Timer service is running.
-  Administration service is running.

Backup Component This is the top level item you have chosen to backup.	Backup the following component: Farm\Solutions ▾
Backup Type Specify which type of backup to start: Full - backs up the selected content with all history. Differential - backs up all changes to the selected content since the last full backup.	Backup Type: <input checked="" type="radio"/> Full <input type="radio"/> Differential
Back Up Only Configuration Settings Specify whether to back up only the configuration settings for this farm without content. Choose this feature to restore configuration settings only to a different farm. By default, both configuration settings and content are backed up.	Data to back up: <input checked="" type="radio"/> Back up content and configuration settings <input type="radio"/> Back up only configuration settings
Backup File Location Each backup job is stored in a separate folder in the location you specify, and each object is backed up to an individual file in that folder. Learn about backup locations.	Backup location: <input type="text"/> Example: \\backup\SharePoint Estimated disk space required: 446.15 KB.

Previous

Start Backup

Cancel

KEVIN O'NEILL

To verify the backup status select Check backup and restore job status:

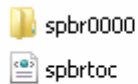


If the Phase says Completed then the back-up is good:

Phase	Completed
Start Time	3/14/2011 3:16 PM
Finish Time	3/14/2011 3:17 PM
Top Component	Farm\Solutions
Backup ID	77feaec0-4fb1-444f-a9aa-8732239fa764
Directory	D:\backup\Sharepoint\spbr0000\
Backup Method	Full
Backup Threads	3
Warnings	0
Errors	0

Name	Progress	Last Update	Failure Message
Farm		3/14/2011 3:16 PM	

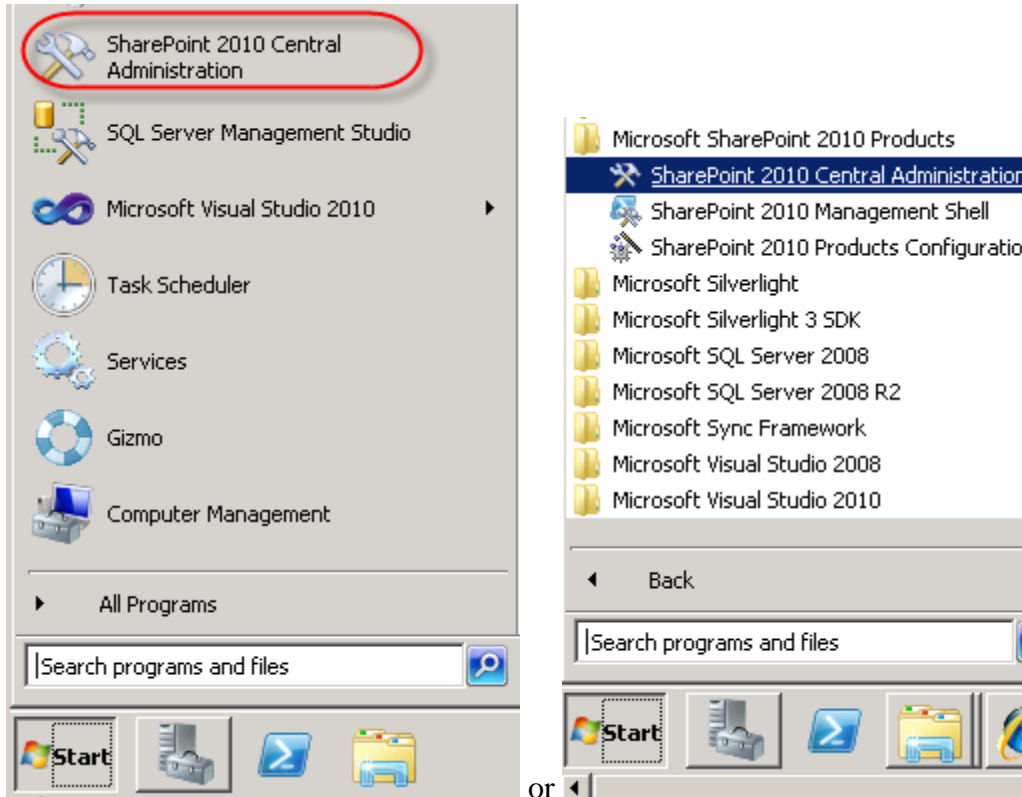
Also the directory where the file back-up was pointed to – will have a directory with the desired *.bak files as well as a spbrtoc.xml file that contains information associated with a backup.



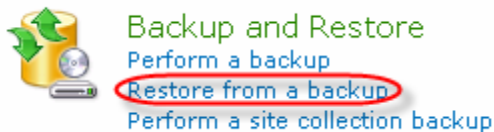
KEVIN O'NEILL

Farm Restore:

Access Central Administration



At the Backup and Restore click Restore from a backup



Or Click Backup and Restore and at Farm Backup and Restore select Restore from a backup:



KEVIN O'NEILL

Select the desired backup from the list – then select Next

Readiness

- No backup or restore in progress. [Backup and Restore Job Status](#)
- Timer service is running.
- Administration service is running.

Backup Directory Location:

Results 1-1 of 1 jobs.

Select	Top Component	Type	Method	Finish Time	Failure Message
<input checked="" type="checkbox"/>	Farm\Solutions	Backup	Full	3/14/2011 3:17 PM	

Select the items desired to be restored and click Next:

Select the components to restore.

If a component is listed, but cannot be selected, it is either because the backup does not contain the component or there was an error during the backup. You can see the associated error message under the Backup Failure Message column. To continue with the restoration process, click **Next**. To select a different backup file that contains a different set of components, click **Previous**.

Readiness

- No backup or restore in progress. [Backup and Restore Job Status](#)
- Timer service is running.
- Administration service is running.

Select component to restore

Select the top-level component to restore.


Select	Component	Type
<input checked="" type="checkbox"/>	Farm	Farm
<input type="checkbox"/>	SharePoint10_Config	Configuration Database
<input type="checkbox"/>	Solutions	Solutions

KEVIN O'NEILL

Select the desired configuration options and select Start Restore:

Readiness <ul style="list-style-type: none">No backup or restore in progress. Backup and Restore Job StatusTimer service is running.Administration service is running.	
Restore Component <p>This is the top level item you have chosen to restore.</p>	Restore the following component: Farm\Solutions ▾
Restore Only Configuration Settings <p>Specify whether to restore only the configuration settings from this backup package. Choose 'Restore only configuration settings' if you plan to restore your settings onto new hardware. By default both configuration settings and content are restored.</p>	Data to restore: <input checked="" type="radio"/> Restore content and configuration settings <input type="radio"/> Restore only configuration settings
Restore Options <p>To restore to a farm with the same computer names, web application names and database servers as those in the backup farm, select 'Same configuration'. To restore to a farm with different computer names, web application names or database servers, select 'New configuration'.</p>	Type of restore: <input checked="" type="radio"/> New configuration <input type="radio"/> Same configuration



If the Restore Option is selected as Same configuration the following prompt is shown – and select OK then select Start Restore:

Readiness <ul style="list-style-type: none">No backup or reTimer service isAdministration s	Message from webpage  Warning: All selected components will be overwritten. Do you want them to be overwritten? OK Cancel	Restore the following component: Farm\Solutions ▾
Restore Component <p>This is the top level item you h</p>		
Restore Only Configuration Settings <p>Specify whether to restore only the configuration settings from this backup package. Choose 'Restore only configuration settings' if you plan to restore your settings onto new hardware. By default both configuration settings and content are restored.</p>	Data to restore: <input checked="" type="radio"/> Restore content and configuration settings <input type="radio"/> Restore only configuration settings	
Restore Options <p>To restore to a farm with the same computer names, web application names and database servers as those in the backup farm, select 'Same configuration'. To restore to a farm with different computer names, web application names or database servers, select 'New configuration'.</p>	Type of restore: <input type="radio"/> New configuration <input checked="" type="radio"/> Same configuration	

The screen will look as below:

KEVIN O'NEILL

Readiness




-  A backup or restore is currently in progress.
-  Timer service is running.
-  Administration service is running.

Preparing current backup/restore job. If the backup/restore job does not begin after five minutes, make sure that the Microsoft SharePoint Foundation Timer Service is running.

KEVIN O'NEILL

Hit Refresh and if the restore is successful it displays under Phase as Completed:

Readiness

-  No backup or restore in progress.
-  Timer service is running.
-  Administration service is running.

 [Refresh](#)  [View History](#)

Restore

Requested By	*****
Phase	Completed
Start Time	3/15/2011 9:20 AM
Finish Time	3/15/2011 9:21 AM
Top Component	Farm\Solutions\visualwebpartwithlinq.wsp
Backup ID	77feaec0-4fb1-444f-a9aa-8732239fa764
Directory	D:\backup\Sharepoint\spbr0000\
Backup Method	Full
Restore Threads	3
Warnings	0
Errors	0

Access the item on the site that was restored to confirm it was still in working order.

KEVIN O'NEILL

Granular Backup:

From Central Administration -> Backup and Restore under Granular Backup select Perform a site collection backup:



Granular Backup

[Perform a site collection backup](#)

[Export a site or list](#) |

[Recover data from an unattached content database](#) |

[Check granular backup job status](#)

Keep the default site collection or select the desired Site Collection by taking the dropdown and selecting Change Site Collection. Then select the desired site collection and click OK. Also in the File location enter in the desired backup location:

Readiness

- No site collection backup is in progress.
- Timer service is running.

Site Collection

Select a site collection.

Site Collection:

[Change Site Collection](#)

File location:

Specify the destination for the backup package.

Filename:

Overwrite existing file

Example: \\backup\SharePoint\Site1.bak

[Start Backup](#)

[Cancel](#)

In this case the Filename: D:\backup\Sharepoint was used for a Farm backup so another directory needs created/utilized:

File location:

Specify the destination for the backup package.

Filename:

D:\backup\Sharepoint is an existing directory. Choose a different file name for backup.

Overwrite existing file

Example: \\backup\SharePoint\Site1.bak

Thus, D:\backup\Mysite was created and utilized by clicking Start Backup:

KEVIN O'NEILL

File location:

Specify the destination for the backup package.

Filename:

D:\backup\Sharepoint is an existing directory. Choose a different file name for backup.

Overwrite existing file

Example: \\backup\SharePoint\Site1.bak




Start Backup

Cancel

KEVIN O'NEILL

The following screen is then depicted:

Readiness

-  A site collection backup is currently in progress.
-  No export is in progress.
-  Timer service is running.

 Refresh  Delete Backup Job

Site Collection Backup

Current Job

Status	Operation initializing.
Requested By	[REDACTED]
Site Collection URL	[REDACTED]
Filename	D:\backup\Mysite
Overwrite	No
Recovery Step	To recover the data, use the PowerShell restore command Restore-SPSite. For more details, type Restore-SPSite -? at the PowerShell command prompt.

Previous Job

Status	No previous job.
--------	------------------

Content Export

Current Job

Status	No operation in progress.
--------	---------------------------

Previous Job

Status	No previous job.
--------	------------------

When completed, the Status will say Succeeded:

Site Collection Backup

Current Job

Status	No operation in progress.
--------	---------------------------

Previous Job

Status	Succeeded
Completed	3/15/2011 10:32 AM
Duration (hh:mm:ss)	0:00:03
Recovery Step	To recover the data, use the PowerShell restore command Restore-SPSite. For more details, type Restore-SPSite -? at the PowerShell command prompt.

Content Export

Current Job

Status	No operation in progress.
--------	---------------------------

Previous Job

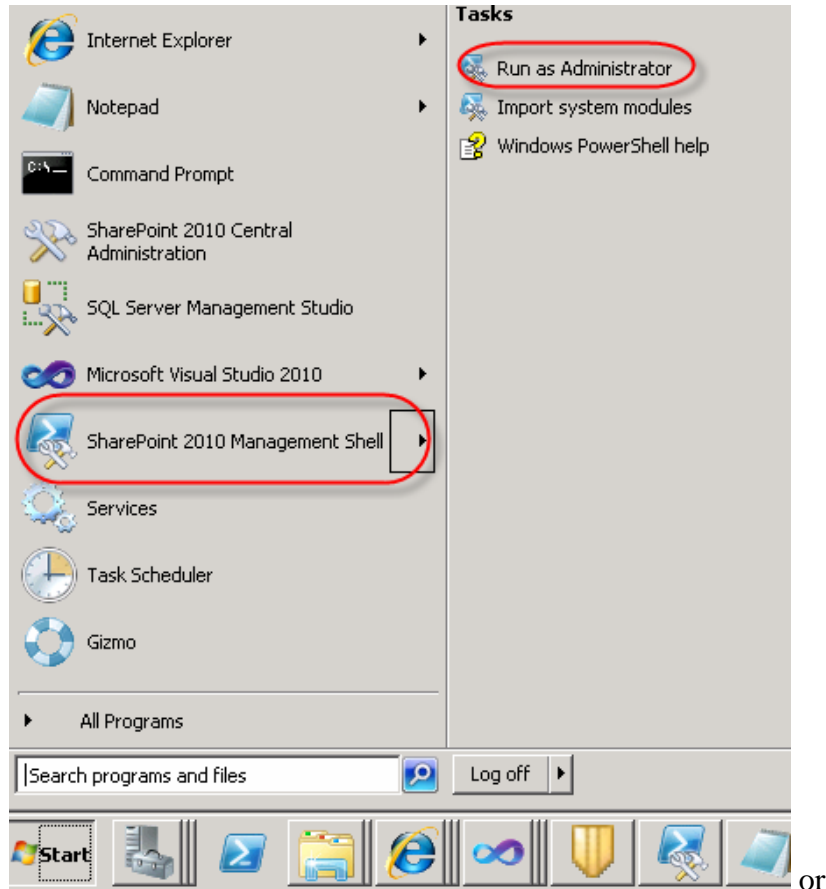
Status	No previous job.
--------	------------------

Note: As of this writing central administrator does not provide a method for a granular restore

KEVIN O'NEILL

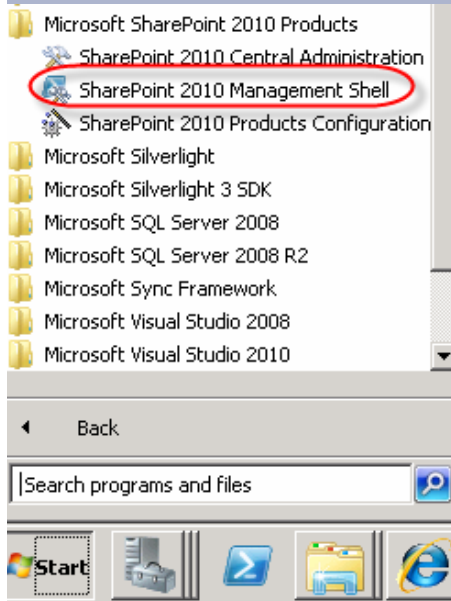
Creating a Farm Backup using Powershell:

Access PowerShell (note the account utilized must be a member of at least the Farm Administrators group in SharePoint and also have access to the WSS_Content database(s)):



or

KEVIN O'NEILL



To run a farm backup run the following command – where:

-Directory is the path where the backup should go. Note: This can be a share as well (example \\backup\sharepoint)

-BackupMethod Full or Differential takes a Full back-up while Differential takes a back-up of only those items that have been changed since the last backup.

-Item is the full URL with the port that should be backed up.

-Verbose shows on the screen the progress being made

An example is here:

```
Backup-SPFarm -Directory D:\backup\Sharepoint -BackupMethod Full  
-Item http://yoursitename:portname/ -Verbose
```

Performing a Farm Restore using Powershell:

First, it is recommended to run the Get-SPBackupHistory cmdlet which upon entering in the Directory to obtain the restore from displays a listing:

KEVIN O'NEILL

```
PS C:\Users\Kevin> Get-SPBackupHistory  
cmdlet Get-SPBackupHistory at command pipeline position 1  
Supply values for the following parameters:  
Directory: D:\backup\Sharepoint  
  
T S Operation ID Method Start Time  
-- --  
R Y 77feaec0-4fb1-444f-a9aa-8732239fa764 Overwrite  
B Y 77feaec0-4fb1-444f-a9aa-8732239fa764 Full
```

To run a farm restore run the following command where:

-Directory is the path where the restore is located. Note: this can be a share as well (example \\backup\sharepoint)

-RestoreMethod will be either Overwrite which will restore your content and configuration to the same names. New will restore using new names in regards to the database names or SQL Server instance.

-BackupId is the GUID of the exact backup that is wished to be restored

An example is here:

```
Restore-SPFarm -Directory D:\backup\Sharepoint -RestoreMethod  
Overwrite [-BackupId 77eaec0-4fb1-a9aa-8732239fa764]
```


KEVIN O'NEILL

Performing a Site Backup using Powershell:

To run a site backup run the following command where:

-Identity is the path that is to be backed-up

-Path is where the restore bak file will go. Note: this can be a share as well (example \\backup\sharepoint)

-Force suppresses the confirmation that the backup will overwrite an existing item of the same name if it already exists

An example is here:

```
Backup-SPSite -Identity http://yoursitename/Sites/PortalName -  
Path D:\backup\Sharepoint\ spbr0000\ spbr0001.bak -Force
```

Performing a Site Restore using Powershell:

To run a site restore run the following command where:

-Identity is the path where the restore will go to

-Path is where the restore bak file is located. Note: This can be a share as well (example \\backup\sharepoint)

-Force suppresses the confirmation that the restore will overwrite

An example is here:

```
Restore-SPSite -Identity http://yoursitename/Sites/PortalName -  
Path D:\backup\Sharepoint\ spbr0000\ spbr0001.bak -Force
```