

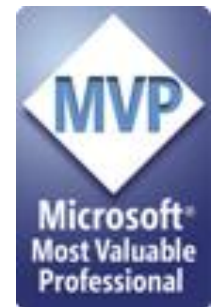


*Stuff SharePoint Administrators should know about
Developers.*

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Who Am I?

- Shane Young
- Owner of SharePoint911.com
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- Consultant, Trainer, Writer, & Speaker
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 - **Blog**
 - <http://msmvps.com/shane>
 - **SharePoint Consulting**
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Agenda

- Site Templates
- Feature feature
- WSS Solution Packages
- Web Parts
- Web.config

Reusing Sites

- Save site as template
- Available from Site Settings
- Works for all sites except publishing sites
- Can choose to include content or not
- Default template limit 10 MB
 - Change via command line
 - Change to max of 500 MB
 - `Stsadm.exe -o setproperty -pn max-template-document-size -pv 524288000`
- Does not save security
 -

Site Templates Usage

- Save Site as template
- Saved to Site Template Gallery
 - **1 per Site Collection**
- Now the template is available to all sites in collection

Use Template Globally

- Deploy via command line
- Add Template
 - `Stsadm -o addttemplate -filename YourFile.stp -title YourTitle -description YourDesc`
- Delete Template
 - `Stsadm -o deletetemplate -title YourTitle`
- List Templates
 - `Stsadm -o enumtemplates`
- After running Add/Delete IISReset required

List Templates

- Just like sites you can save list as template
- Choose to include content or not
- Add to list template gallery to make reusable
- No option for deploying globally

The Feature feature

- Building blocks of SharePoint Sites
- Package of functionality
 - Define and create site elements
 - Deploy and implement new functionality
- Can be turned on or off even after site is created
- Use feature “stapling” to modify default behavior of new sites

What can Features do?

- Deploy site columns and content types
- Define & deploy list templates
- Create list instance from templates
- Define & Deploy page templates
- Deploy web parts
- Deploy custom workflow templates
- Deploy event receivers to lists
- Create new menu items with site

Using Features

- Deploy to the farm
 - Copy files to all servers
 - \12\templates\features
- Install Feature
 - Stsadm.exe –o install feature
- Activate/Deactivate based on scope
 - Farm
 - Web Application
 - Site Collection
 - Site
- Can be hidden
- Feature deactivation
 - Removes functionality
 - Does not remove data created by feature

Demo!

- Copying feature files into place
- Installing feature
- Activating feature
- Open feature.xml

A better way - WSP

- WSS Solution Package
- FileName.wsp is a deployable package (CAB)
- May include
 - Site definitions
 - Feature definitions
 - Images, scripts, files, InfoPath Forms etc
 - Assemblies for bin or GAC
 - Custom Code Access Security (CAS) policy

You want an WSP

- Developer creates WSP
- Farm Administrator adds solution
 - `Stsadm.exe -o addsolution`
- Farm Administrator deploys solution
 - `Stsadm.exe -o deploysolution`
 - OR Central Admin > Operations > Solution Management
- Functionality available

Demo!

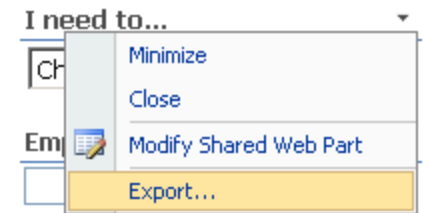
- Deploy a solution

Fun with Web Parts

- Comes packaged as .cab
- Deploy to web application or entire server
 - `Stsadm -o addwppack -url`
 - Or
 - `Stsadm -o addwppack -global`
- Downloads have many flavors.
- Ask for the WSP

Export Web Part Settings

- With page in edit mode
- Creates a .dwp or .webpart file
- XML file with all configuration settings
- Now upload this file to
 - **Web Part Gallery**
 - **Single file import from add web parts menu**



Demo!

- Configure and export web part
- Reuse the web part

Web.config

- Not just for developers
- XML configuration file
- 1 per web application
- Lots of other web.config files, leave them alone
- What is it?
 - **.NET configuration file**
- Generally updated by Central Admin
- File is case sensitive
- Don't edit with WordPad!

What is in web.config

- Safe Controls
- Cache configuration
- Security Level (Code Access Security)
- Authorization (anonymous, etc)
- User Store (AD, Forms Based, Etc)
- And a whole bunch more

Code Access Security

- Similar to setting permission on users except for code
- Default SharePoint runs with Minimal trust
- Raising level in web.config affects everything
- Better – Create custom policy file, specify permissions for particular web part

- More Reading?
 - <http://www.combined-knowledge.com/Downloads/Code%20Access%20Security%20in%20SharePoint%202007%20for%20Administrators.pdf>
 - <http://store.bamboosolutions.com/kb/article.aspx?id=10405>

Setting trust level

- `<trust level="WSS_Minimal" originurl="" />`
- Options
 - `WSS_Minimal` (default)
 - `WSS_Medium`
 - `Full` (built in .NET Policy)

```
<securityPolicy>
```

```
  <trustLevel name="WSS_Medium" policyFile=...
```

```
  <trustLevel name="WSS_Minimal" policyFile=...
```

```
</securityPolicy>
```

Getting better error messages

- Edit Web.config for your web app
 - In `<SharePoint>` section
 - `<SafeMode MaxControls="200" CallStack="true" DirectFileDependencies="10" TotalFileDependencies="50" AllPageLevelTrace="false">`
 - In `<system.web>` section
 - `<customErrors mode="Off" />`
- Now you get detailed error messages

Demo!

- Open up the Web.config
- Enable custom errors

Featured Download

- In the lab you will be using the Free add on:
 - R.A.D. Editor for SharePoint 2007
 - <http://sharepointcontrols.com/products/overview.aspx>
- Provides rich text editor to non IE browsers

Books by the SharePoint911 Consultants

- Real World SharePoint 2007: Indispensable Experiences From 16 MOSS and WSS MVPs (Wrox)
- Professional SharePoint 2007 Design (Wrox)
- Professional Microsoft Search: SharePoint 2007 and Search Server 2008 (Wrox)
- Inside SharePoint Administration (Cengage, Coming soon)
- MOSS Explained: An Information Workers Deep Dive into Microsoft Office SharePoint Server 2007 (Cengage, Coming soon)

<http://www.sharepoint911.com/Links/Pages/Bookshelf.aspx>

SharePoint911

- SharePoint911 was established in 2004 to draw on Shane Young's extensive experience with systems administration and with consulting for clients on SharePoint issues. Over the past several years, SharePoint911 has expanded and evolved. While our ability to respond quickly to specific needs makes us unique, we also offer comprehensive consulting services. Not only do we have extensive, real world experience, but our consultants also teach, write about, and speak on various SharePoint topics.

We truly are “The SharePoint Authority.”

<http://www.sharepoint911.com>