



# Content and Infrastructure Deployment

Paul Papanek Stork

MCT, MCSE+I, MCSA, MCSD, MCDBA, MCITP, MCPD

Mindsharp: Educators in Technology

KNOW MORE. DO MORE.

# Agenda



- Content versus Infrastructure
- Content Deployment
  - Automated Content Deployment
  - Other methods
- Infrastructure Deployment
  - SharePoint Features
  - Web Solution Packages

KNOW MORE. DO MORE.



# Content vs. Infrastructure

- Content (Content Database)
  - List and Library Content
  - “Customized” Files
  - Site Galleries
- Infrastructure (File System)
  - Web Application subdirectory
  - 12 hive
  - Global Assembly Cache

KNOW MORE. DO MORE.



MINDSHARP®

# Configuration Steps

1. Create Blank Site as Destination
2. Enable Destination Farm to accept incoming jobs
3. Configure Source Farm (if separate)
4. Create a Content Deployment Path
5. Create a Content Deployment Job
6. Run Content Deployment
7. Check if Content Deployed

KNOW MORE. DO MORE.

# Content Deployment Settings



- Destination Farm
  - Accept Incoming Jobs
  - WFE Server Used To Process Imports
  - How Many Reports to Keep
- Source Farm
  - WFE Server Used To Process Exports
- Both Farms
  - SSL Encryption
  - Temporary File Path



# Content Deployment Paths

- Source and Destination Site Collection
- Destination Central Admin Server
- Security to Deploy

KNOW MORE. DO MORE.



# Content Deployment Jobs

- Content Deployment Path to Use
- Scope
  - Entire Site Collection
  - Specific Sites
- Schedule How Often to Deploy
- Deploy Changed Content or All Content
- Notify Who on Success or Failure

KNOW MORE. DO MORE.

# Demo



## Configuring Content Deployment



MINDSHARP®

# What is Deployed?

- One way Replication
- Will deploy content dependencies
  - Master Pages, Page Layouts, images, CSS
  - Will NOT deploy alerts, audit trail, change log, recycle-bin, workflow tasks/state
- Latest Major and Minor versions
- Publishing schedule metadata
- GUIDs are copied

KNOW MORE. DO MORE.



MINDSHARP

# Other Deployment Methods

- Hotfixes 952698 (WSS) and 952704 (MOSS)
- STSADM
  - Backup/Restore
  - Export/Import
- Third Party Synchronization Tools
  - Codeplex SharePoint Content Deployment Wizard
  - Infonic (previously iOra) Geo-Replicator
    - Two-way replication across low bandwidth
  - Syntergy Replicator

KNOW MORE. DO MORE.

KNOW MORE. DO MORE.

# Demo



## Content Deployment Results

# Infrastructure Deployment



- SharePoint Features
  - Feature Header File
  - Feature Elements File
  - Feature Management Lifecycle
- Building and Deploying Solutions
- Deploying Infrastructure



# Feature Header File

- Feature.XML file
- Id="[guid]"
  - Use **Create Guid** from **VS.NET Tools** menu
- Title is displayed on Feature activation page
- Scopes
  - Farm, Web Application, Site, Web
- Child nodes:
  - ActivationDependencies
  - ElementManifests
  - Properties



MINDSHARP®

# Elements File

KNOW MORE. DO MORE.

<b>Feature Element Scopes</b>			
<b><i>Farm</i></b>	<b><i>Web Application</i></b>	<b><i>Site (Site Collection)</i></b>	<b><i>Web (Site)</i></b>
			<b>Control</b>
			<b>Custom Action</b>
			<b>Custom Action Group</b>
			<b>Hide Custom Action</b>
			<b>Feature Site Template Association</b>
<b>User Migrator</b>			
	<b>Document Converter</b>		
			<b>Field</b>
			<b>Content Type</b>
			<b>Content Type Binding</b>
			<b>Workflow</b>
			<b>Module</b>
			<b>List Template</b>
			<b>List Instance</b>
			<b>Receiver</b>

# Feature Management Lifecycle



- Feature Lifecycle
  - *InstallFeature*
  - **ActivateFeature**
  - **DeactivateFeature**
  - **UninstallFeature**
- Can be done Programmatically

# Building and Deploying Solutions



- Install Infrastructure
  - General Features
  - Web Parts (Server or Site Collection)
  - Event Handlers
  - Code Access Security
  - Other Infrastructure Files (Module)
- Manifest File
- Web Solution Package .cab file

KNOW MORE. DO MORE.



# Deploying Infrastructure

- Master Pages – Feature
- Custom Navigation – Solution
- Page Layout – Feature
- Field Types – Feature
- Web Parts
  - Solution – Server Gallery
  - Feature – Site Collection Gallery
- Workflows – Feature
- Document Converter - Feature



MINDSHARP®

# DEMO



## Infrastructure Deployment

KNOW MORE. DO MORE.



MINDSHARP®

Questions?

KNOW MORE. DO MORE.