Configuration & Deployment

Putting MVC Into Production



Overview

- Configuration files for .NET
- ASP.NET MVC and IIS
- Web Deployment Packages



Configuration Files

- XML files control environmental settings
 - Authentication
 - Compilation
 - Connections
 - Cryptography
 - Custom errors
- Configuration is extensible



Accessing Settings

- Use the ConfigurationManager from System.Configuration
 - Includes shortcuts to AppSettings and ConnectionStrings
 - Can also use manager class to open config files for editing and update

```
var server = ConfigurationManager.AppSettings["FileServerName"];

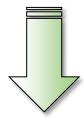
var modulesSection =
    ConfigurationManager.GetSection("system.web/httpModules")
    as HttpModulesSection;

var installedModules = modulesSection.Modules.Count;
```



Hierarchical Configuration

- Each application inherits settings from higher level config files
 - Machine config
 - Machine web.config
 - Parent's web.config
 - Your web.config



Lower level settings can override higher level settings



Machine Configuration

- Machine.config is located in the runtime's Config directory
 - Note: .NET 3.5 uses the .NET 2.0 Config directory
 - .comments file documents available settings
 - default file contains the runtime's default settings.



Machine Level Web.config

- Controls settings for all ASP.NET applications on a computer
 - Same location as machine.config
 - Also contains .default and .comment files

Includes

Default assemblies, namespaces, providers, security settings



Custom Errors

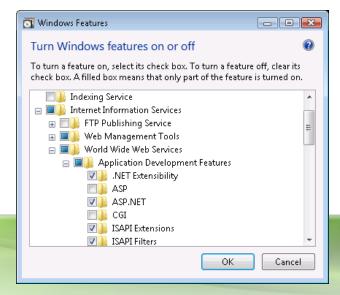
- HandleError attribute renders Error view
 - Custom errors must be on
 - Error view passed a HandleErrorInfo model

```
[HandleError]
public class MovieController : Controller
{
    // ...
}
```



Hosting ASP.NET MVC

- Building MVC projects produces a .dll
 - Needs a host process to execute
- IIS Express is a development host
 - Runs with your identity
- IIS is a production web server
 - Available on both server and personal version of Windows
 - "Off by default".





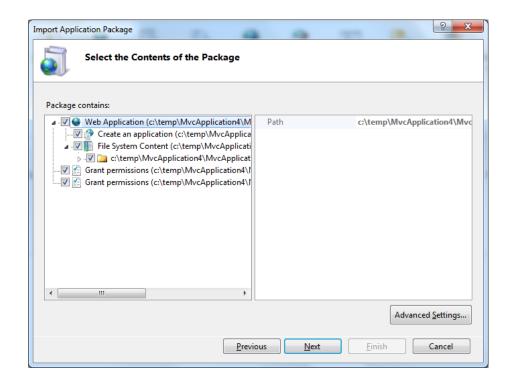
Web.config Transformations

- Change or replace web.config settings during a publish
 - Database names
 - Custom error settings
 - Debug settings
 - Application settings



Web Deploy

- Package, archive, and deploy web applications
 - Content
 - Databases
 - Registry, GAC, ACLs
- Web server migration and synchronization
 - Command line and GUI tools





Summary

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- Web Deployment Packages

