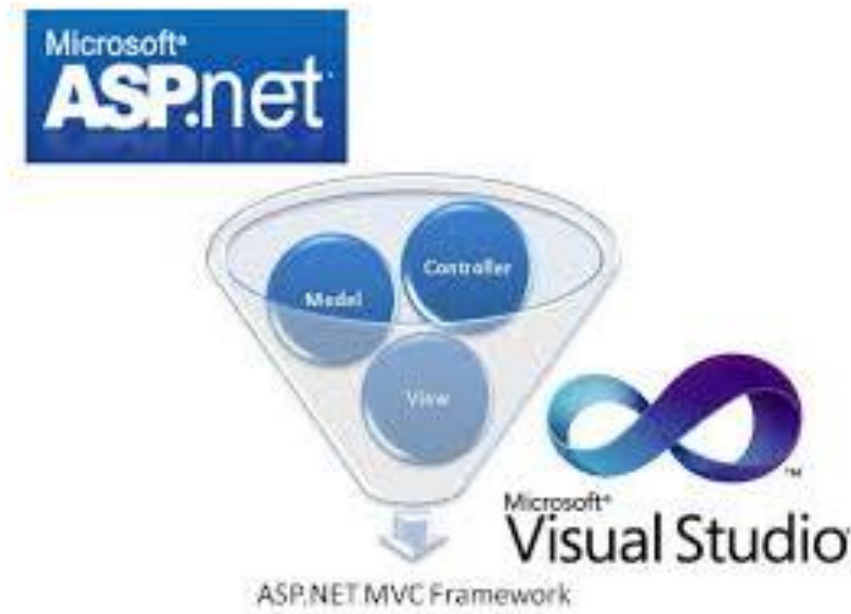


C#



9. CONFIGURATION AND DEPLOYMENT OF MVC

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

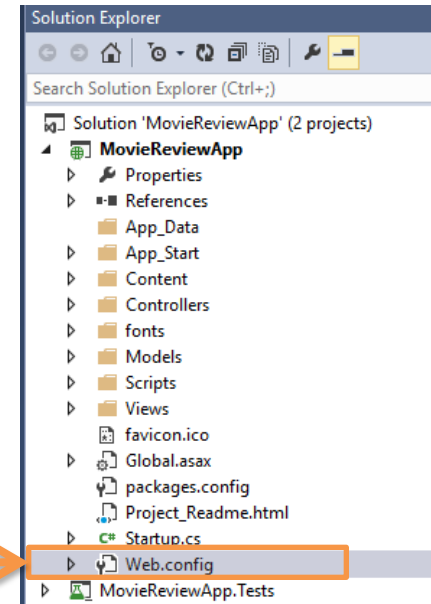
3. HomeController -> Index()

```
ViewBag.SmtpServer = ConfigurationManager.AppSettings["SmtpServer"];
```

4. Render in the View using razor syntax

```
<div>
    @ViewBag.SmtpServer
</div>
```

1. Open
Web.config

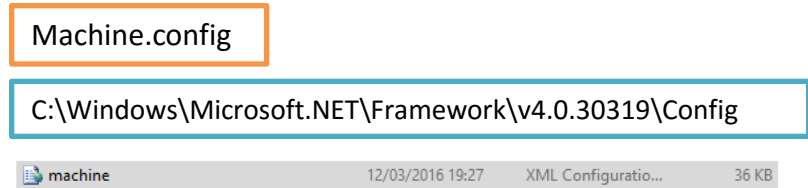
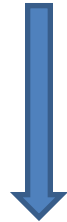


2. Insert a value in AppSettings in Web.Config

```
<appSettings>
  <add key="webpages:Version" value="3.0.0.0" />
  <add key="webpages:Enabled" value="false" />
  <add key="ClientValidationEnabled" value="true" />
  <add key="UnobtrusiveJavaScriptEnabled" value="true" />
  <add key="SmtpServer" value="GMAILSMTPServer" />
</appSettings>
<system.web>
```

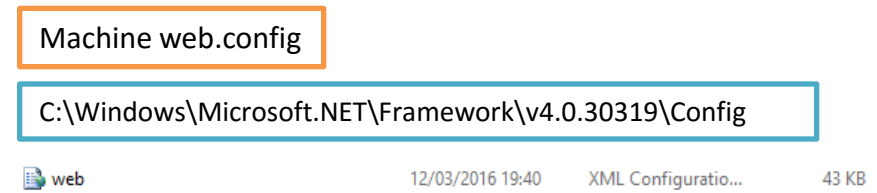
Hierarchical Configuration

- 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



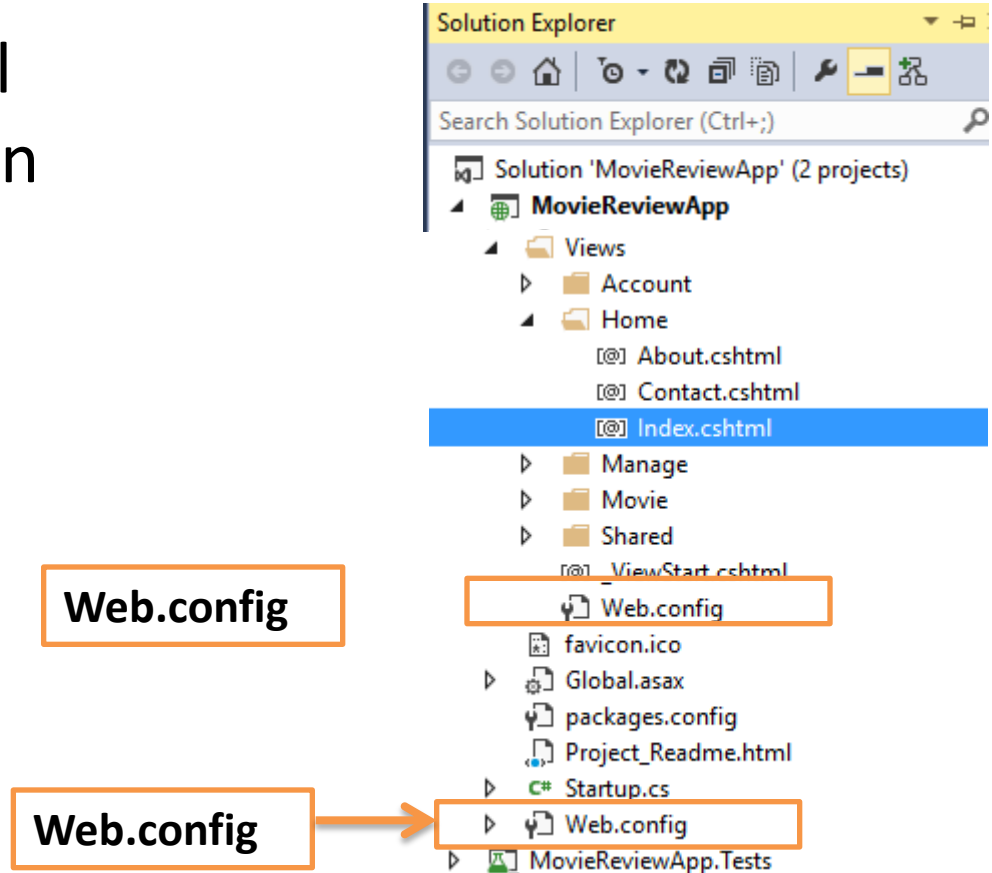
Machine Configuration

- 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



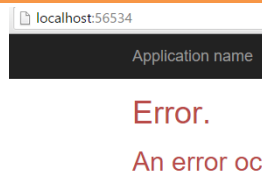
Custom Errors

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

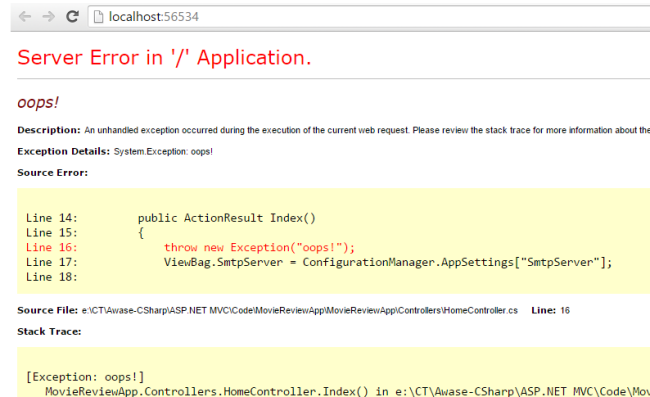
Step 3. Web.Config -> change settings customError -> "On" to set a Custom Error Page

```
<system.web>
  <authentication mode="None" />
  <compilation debug="true" targetFramework="4.5.1" />
  <httpRuntime targetFramework="4.5.1" />
  <customErrors mode="On"/>
</system.web>
```

Step 4. Now regenerate error to display custom error page



Step 1. Generate an Error



Step 2. Web.Config -> default settings customError -> "RemoteOnly"

```
<system.web>
  <authentication mode="None" />
  <compilation debug="true" targetFramework="4.5.1" />
  <httpRuntime targetFramework="4.5.1" />
  <customErrors mode="RemoteOnly"/>
</system.web>
<system.webServer>
```

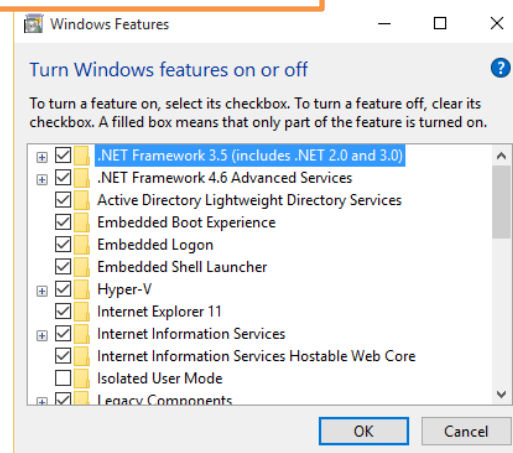

Hosting ASP.NET MVC

- 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”

1. IIS Server Installation

Control Panel\Programs\Programs and Features

2. IIS Feature **ON**



3. Register iis

```
C:\Windows\Microsoft.NET\Framework\v4.0.30319>aspnet_regiis -i
```

Hosting ASP.NET MVC

4. Publish to a local IIS Server or External Server

The screenshot shows the 'Web*' task pane in Visual Studio. The 'Start Action' section has 'Current Page' selected. The 'Servers' section has 'Local IIS' selected, and the 'Project Url' is 'http://localhost/MovieReviewApp'. The 'Debuggers' section has 'ASP.NET' selected.

Application: MovieReviewApp*
Web.config | Index.cshtml | HomeController.cs | Details.cshtml | Delete.cshtml | Create.cshtml | Index.cshtml

Configuration: N/A | Platform: N/A

Web*

Package/Publish Web
Package/Publish SQL
Silverlight Applications
Build Events
Resources
Settings
Reference Paths
Signing
Code Analysis

Start Action

☒ Current Page
☐ Specific Page
☐ Start external program
Command line arguments
Working directory
☐ Start URL
☐ Don't open a page. Wait for a request from an external application.

Servers

☒ Apply server settings to all users (store in project file)
Local IIS
Project Url: http://localhost/MovieReviewApp
Create Virtual Directory
☐ Override application root URL
http://localhost:56534/

Debuggers

☒ ASP.NET
☐ Native Code
☐ SQL Server
☐ Silverlight

5. Publish to Web

The screenshot shows the 'Publish Web' dialog box. The 'Profile' tab is selected, and the 'Select a publish target' list is visible. The list includes 'Microsoft Azure Web Apps', 'Microsoft Azure API Apps (Preview)', 'Import', and 'Custom'. The 'More Options' button is also visible.

Publish Web

Profile | Connection | Settings | Preview

Select a publish target

- Microsoft Azure Web Apps
- Microsoft Azure API Apps (Preview)
- Import
- Custom

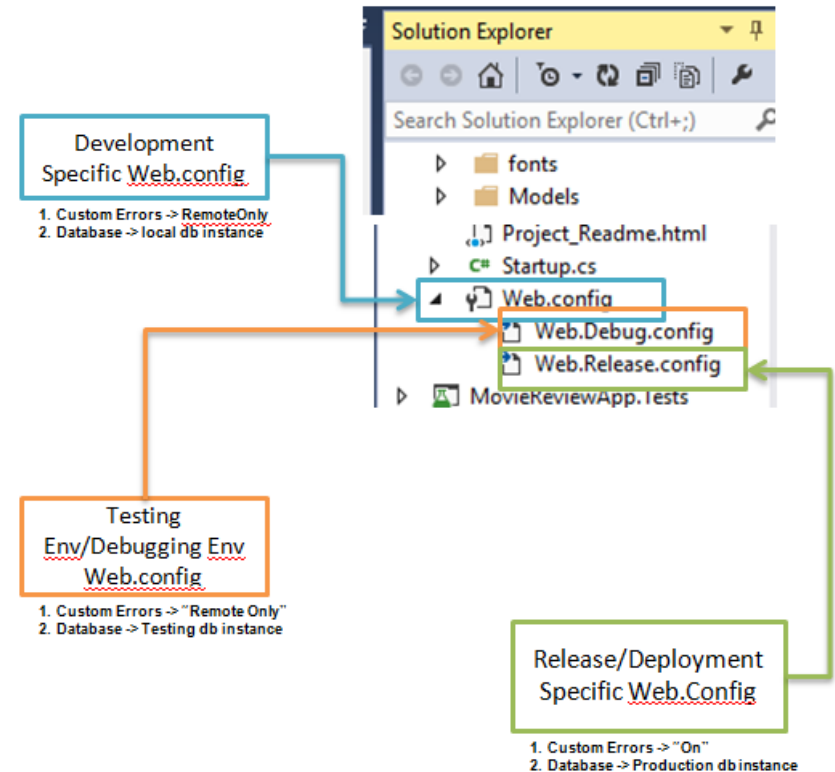
More Options

Find other hosting options at our [web hosting gallery](#)

< Prev | Next > | Publish | Close

Web.config Transformations

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



Web Deploy

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

Summary

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