

Assembly Attributes

- When you build a project, VS.NET always generates a .cs file called AssemblyInfo.cs
- You can set custom attributes for your assembly in this file such as Company, Copyright, Trademark, Title, and Version number

Assembly Attributes

- · using System.Reflection
- // set name, copyright, trademark, version
- [assembly:AssemblyCompany("My Company")]
- [assembly:AssemblyCopyright("Copyright © 2009 RZ")]
- [assembly:AssemblyTrademark("Blah is a registered trademark")]
- [assembly:AssemblyVersion("3.1.0.0")]
- · The version number has 4 parts:
- Major Number 3 major and minor = public perception
- Minor Number
- 1 i.e., this is version 3.1 of the software
- Build Number
- Revision Number (

Private Deployment

- Easiest way to deploy you're your application is just to copy all files to the same directory.
- That's it no registry settings and no active directory trouble
- Assemblies deployed to the same directory as the application are called privately deployed assemblies because the files aren't shared with any other application (unless also deployed to same directory)

Private Deployment

- This is a big plus because you just copy everything into one folder and the CLR will load and execute each one no problem.
- In addition, the referencing assembly scopes every type.
- This means that an application always binds to the exact type that it was built and tested with (including version number) -- the CLR cannot load a different assembly that just happens to provide a type with the same name. No More "DLL Hell".

Simple Administrative Control

- To allow administrative control over an application, a configuration file can be placed in the same directory as the application.
- The CLR interprets the content of this file to alter its policies for locating and finding assemblies.

Simple Administrative Control

- Example: Assume a directory named AppDir contains myapp.exe and an app.config file.
- Underneath this folder is a directory named AuxFilesDir and it contains a dll named Other.dll which is needed by myapp.exe.
- Since Other.dll library is not in the same directory as the main app, the CLR won't be able to locate and load it.
- · Would get a System.IO.FileNotFoundException

Simple Administrative Control

- To fix this problem, you would create an XML configuration file and put it in the app's main directory.
- The name of this configuration file is always app.config and it is placed in the same folder as the main app.
- When you compile, VS Net will generate a file named myapp.exe.config and it will be put in the bin/debug folder where myapp.exe resides.

Simple Administrative Control

- · The app.config file in this example would look like:
- <?xml version="1.0" encoding="utf-8" ?>
- · <configuration>
- <runtime>
- <assemblyBinding xmlns="urn:schemas-microsoft-com:asm.v1">
- <probing privatePath="AuxFilesDir"/>
- </assemblyBinding>
- </runtime>
- </configuration>

Simple Administrative Control

- When CLR attempts to locate a file, it looks in main directory first, and if not found it will now look in the AuxFilesDir.
- You can specify multiple, semicolon delimited paths for the probing element's privatePath attribute
- Each path must be relative to main app directory. It cannot be off in another folder unrelated to the main directory.
- System.Configuration namespace has classes that allow you to manipulate the configuration file at runtime.