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C#.NET Advanced

Duration: 2 Days

Overview:

Aspect Training's C# Advanced Training course is designed to teach students to use System.Configuration namespace to embed configuration management into .NET applications.

The course examines many features of the .NET Framework that apply to various technologies. Each module includes a brief introduction to these technologies, but assumes that you understand the basics so that the courseware can focus on specific applications.

Upon completion of the course, students will be able to:

- Post events to the Windows Event log and manage Windows processes using the System.Diagnostics namespace
- Take advantage of the .NET 2.0, 3.0, 3.5 security features in the System.Security namespace
- Prevent tampering using the AccessControl and Authentication classes
- Protect dates using the Cryptography classes
- Control access to applications using the Permissions and Policy classes

Prerequisites:

Experienced programmers who use Visual Studio 2005/2008 and .NET Framework

Continued over...



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Course Topics:

Application Configuration

Introduction
Standard Configuration Sections
Custom Configuration Sections
Custom Configuration Providers

Installing and Configuring Assemblies

Introduction to Assembly Installation
Using Installation Components
Configure Assemblies

Application Diagnostics

Introduction to System.Diagnostics
Using an Event Log
Managing System Processes
Monitoring Application Performance

Debugging Applications

Introduction
Debugging .NET Applications
Instrumenting an Application
Industrial Strength Tracing

System Management Information

Introduction
Accessing Windows Resources
Subscribing to Management Events

.NET Code Access Security

Introduction
Code Access Security
Using Code Access Security with Assemblies
Using Code Access Security with Methods

User- and Role-Based Security

Introduction
Windows Identities and Principals
Security Demands
Generic and Custom Identities
Windows Access Control
Windows Security
Security Access and Audit Rules
Low-Level Security Access
Ownership, Inheritance, and Propagation

Encrypting and Hashing Data

Introduction to Cryptography
Hashing Data
Symmetric Key Encryption
Asymmetric Key Encryption
Digital Signatures
Data Protection API