

Enhanced Web Service Communication using Windows Communication Foundation

Course Description

In this Course you learn how to programming a distributed application using Windows Communication Services (WCS) which is a part of .NET Framework 3.0. This course will provide basic to intermediate programming on WCS

Course Level

Intermediate

Who should attend?

Programmers who want to Programming a Distributed Application using .NET Framework 3.0

Pre-requisites

Basic understanding Basic concept of Programming .NET Application

Course Objectives

- Overview Service-Oriented Architecture
- WCF Basic
- Understanding WCF Programming Model
- Creating WC Services
- Hosting and Consuming WCF Services
- Managing WCF Services
- Implementing WCF Security
- Using Reliable Messaging
- Using Queue-Based Communications

Course Durations

18 Hours

Course Outline

1. Introducing Service-Oriented Architecture
 - Service-Oriented Architecture
 - What Is a Service?
 - Web Services
 - Introducing SOAP
 - Messages in Loosely Coupled Systems
2. Introducing WCF Basics
 - COM ,DCOM and .NET Remoting
 - Interoperability Across Platforms
 - Exploring New Features in WCF
 - Components vs. Services
 - Support of Visual Studio 2005
 - Unifying Distributed Technologies
3. Exploring the WCF Programming Model
 - Learning the ABCs of WCF
 - Addresses,Bindings and Contracts
 - WCF Layers
 - Using ServiceHost and ChannelFactory
 - Applying Behaviors
4. Installing and Creating WCF Services
 - Understanding the Requirements
 - Installing the .NET 3.0 Components
 - Understanding Service Contracts
 - Programming Model
 - Hosting on IIS
 - Understanding Data Contracts
5. Hosting and Consuming WCF Services
 - Exploring Your Hosting Options
 - Using Visual Studio 2005
 - Command-Line Implementation
6. Managing WCF Services
 - Building Custom Code to Monitor Activity
 - Using Configuration Files
 - Using Tracing and Message Logging Capabilities
 - Utilizing WCF Performance Counters
 - Using Windows Management Instrumentation
7. Implementing WCF Security
 - Introducing the WCF Security Features
 - Protection Levels
 - Federated Security Model in WCF
 - Authorization in WCF
 - Auditing for Security Features in WCF
 - Windows CardSpace
8. Implementing Reliable Messaging and Queue-Based Communications

- Implementing Reliable Messaging
- WCF Web Service Reliable Sessions
- Queuing in WCF
- MSMQ in Windows Server 2008
- 9. Using Transactions in WCF
 - Types of Transactions in WCF
 - Defining Transactions in WCF
 - Working with Transactions and Queues

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