

.NET Training: Implementing WCF Distributed Solutions (NFWCFP, 4 jours)

Description

The course Implementing WCF Distributed Solutions (.NET Training) teaches you about WCF development in .NET. The course begins with an overview of WCF basics including message types, contracts, protocols & bindings. The training includes understanding and customizing the WCF message payload, bindings and behaviors as well as implementing transactions. The importance of messaging in an organization makes this course a must for any programmer that uses WCF in their .NET applications.

Tarifs

- Tarification: \$3,750/person
- Rabais de 10% lorsque vous inscrivez 3 personnes.

Plan de cours

Exploring Windows Communication Foundation : WCF

WCF Concepts and Terminology

Comparing WCF to .NET Remoting

WCF Architecture

The Communications Lifecycle

The Building Blocks: WCF Core Components

Building WCF Solutions with Visual Studio

Contracts and Channels

Providing Practical Definitions

Contract Types

About Service, Data and Message Contracts

The Role of Channels

Exploring Channel Shapes

The Channel Relationship to Operational Contracts

About Channel Listeners and Factories

About Bindings

Exploring Communications Scenarios

Exploring Bindings

Remote Communications in .NET Applications

Local Communications in .NET Applications

Implementing Web Service Communications

Implementing Queue Based Communications

Creating Custom Bindings

About Service Behavior

Session Binding Overview

Implementing Multi-Threading

Counting Instances: Single vs Multiple

Counting Instances

Counting Calls

Counting Sessions

Behaviour Security

Delving into the Payload

.NET Serialization Overview

Overview of WCF Serialization Options

Choosing a Serializer: DataContractSerializer, XmlSerializer, etc

About Working with Reference Types

Advanced Serailization for Performance

About Custom Serialization

About Selecting an Encoding

Exploring Transactional Services

Transaction Properties

WCF Transactional Protocols: OLETx or WS-AT

Implementing Transactional Behaviours

Implementing Transactions inside a Method Call

Implementing Multi-Method Transactions

A Complete Transactional Example

Implementing Custom Behaviors

Building Custom Behaviours

Endpoint Behaviour versus Operation Behaviour

Implementing Message Inspectors

Implementing Parameter Inspectors

About Configuration Based Behaviours

WCF Security

WCF Security Overview

About Authentication and Authorization

Ensuring Confidentiality and Integrity

Using Certificates and Encryption

Implementing Transport Layer Security (TLS)

Implementing Message Level Security

Auditing and Logging

Protecting Against Hackers

Diagnostics and Deployment

Overview of the Diagnostic Process

Implementing Tracing

Implementing Message Logging

Making use of the Service Configuration Editor

Using the Service Trace Viewer

Deploying a WCF Service