Microsoft .NET Framework 4, Windows Communication Foundation Development

This three-day instructor-led course provides participants with the knowledge and skills to develop distributed applications using WCF 4. Windows Communication Foundation Development

**Målgrupp**
Students should have experience consuming services within their Web and/or Windows client applications and be interested in learning to develop service-oriented applications (SOA) using WCF.

**Förkunskaper**
Förståelse för konceptet SOA, erfarenhet av applikatoner som använder WCF. Insikt i enklare utvecklingsuppgifter och hur man anropar en WCF Service.

**Certi eringsförberedande**
Exam 70-513: TS: Windows Communication Foundation Development with Microsoft. NET Framework 4

**Kursmaterial**
Microsofts officiella elektroniska kursmaterial på engelska ingår.

**Course outline:**

**Module 1: Service-Oriented Architecture**
This module explains how to design SOAs, how to adhere to SOA tenets, and how to leverage the benefits of SOA scenarios using WCF.

**Module 2: Getting Started with Microsoft Windows Communication Foundation Development**
This module describes how to implement a WCF service from the beginning, including defining a contract, implementing the contract, hosting the service, configuring endpoints, and configuring bindings. It also explains how to create a proxy to a WCF service using a channel factory, and using the Add Service Reference dialog box in Visual Studio 2010.

**Module 3: Hosting Microsoft Windows Communication Foundation Services**
This module explains how to host WCF services using Windows Services, Internet Information Services (IIS) and Windows Process Activation Service (WAS), and Windows Server AppFabric. This module describes how to choose the appropriate host, and how to configure it properly for your service’s optimal operation.

**Module 4: Defining and Implementing Microsoft Windows Communication Foundation Contracts**
This module describes how to define WCF service contracts, data contracts, and message contracts. This module explains how to design WCF contracts appropriately, and how to modify WCF contracts according to the selected messaging pattern.

**Module 5: Endpoints and Behaviors**
This module describes how to expose multiple endpoints from a WCF service, how to automatically discover services and make services discoverable, how to configure instancing and concurrency modes for services, and how to improve service reliability with transactions and message queues.

**Module 6: Testing and Troubleshooting Microsoft Windows Communication Foundation Services**
This module describes how to diagnose errors and problem root causes in WCF services, and how to configure services to expose fault information. It also explains how to use tracing, message logging, and other diagnostic and governance tools for monitoring services at runtime.
Module 7: Security

This module explains how to design secure applications, how to implement WCF security on both the message level and the transport level, how to integrate authentication and authorization into service code, and how to apply claim-based identity management in federated scenarios.

Module 8: Introduction to Advanced Microsoft Windows Communication Foundation Topics

This module explains how to improve service throughput and responsiveness using the asynchronous invocation pattern, and how to extend WCF services using inspectors, behaviors, and host extensions. It also describes how to use the WCF routing service for improving service reliability, and how to use Workflow Services to orchestrate long-running, durable, service work.

Utbildningen levereras i samarbete med Microsoft Partner

Recensioner

Baseras på 444 recensioner

I samarbete med utbildning.se