WCF Course Content

Introduction of WCF

- What is WCF?

- How it is different

- from Web Services

- Evolution of WCF to

- present form

- WCF as a unified model

- Endpoints concept in WCF

Fundamental in WCF

- End Point

- Binding and Behavior

- Contracts and Service Host

- Message and Channel

- Client and Metadata

Functionality in WCF

- Creating a WCF project

- Types of Contracts in WCF and how they can be defined

- Types of hosting in WCF

- .NET support for WC

- Demo for creating a simple WCF Service in console and hosting it.

Hosting in WCF

- IIS Hosting

- Self-Hosting

- WAS Hosting

- Windows Service

- Hosting

Binding in WCF

- Bindings and Channel Stacks

- Types of Binding

- Binding configuration

Contracts in WCF

- Service Contract

- Data Contract

- Message Contract

- Expand Message

- Contract

- Fault Contract.

Consuming a WCF Service

- Demo for the Consuming WCF

- Visual Studio role in building WCF applications

- Templates, tools, testing and hosting environments

- Creation of a simple WCF application in Visual Studio

- Using Data Contracts for serializing and WCF-enabling complex types

Message Exchange Patterns

- One-way
  Request-Reply

- Duplex

- Describing Message

- Exchange patterns using attributes

Other content in WCF

- Error Handling ,

- Faults and

- Exceptions

- Generating and

- Handling Faults

- Fault Contracts

- Faults related to other environments

- Web Programming using WCF

- Use of WebHttpBinding

- Explanation of SOAP, JSON, POX and REST styles

- VS.NET role in WCF-AJAX integration

- Demo for creating and consuming a

- service in AJAX using JSON

- serialization.

- WCF support for REST with Web Get and Web Invoke attributes

- How REST works –

- URI template and holes concept

- Demo for creating a WCF Service with

- REST More WCF applications and other technologies related to WCF

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