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WCF

Chapter 1: Introduction to WCF

- Evolution of WCF
- Evolution of Service Oriented Architecture (SOA)
- Four Tenets of SOA
- What is WCF
- Where does WCF Services fit in?

Chapter 2: Developing WCF Service Application and Client

- Hosting WCF Service in IIS/ASP.NET Development Server
- Using a Service in the client application
- Understand Contracts in the service.
 - ServiceContract.
 - OperationContract.
 - DataContract.
- Understand Instancing behavior in the service.
 - Single
 - PerCall
 - PerSession
 - Building WCF Library based Host and Client application.

Chapter3: Endpoints in configuration file

- End points in Configuration File.
- ABC - Address, Binding & Contract of the service in Configuration File.
- Understanding importance of base address.
- Importance of IMetadataExchange Contract / Endpoint.
- Configuring service behavior in configuration file
- WCF Service Configuration Editor
- Creating Endpoints through Code

Chapter 4: Channel Stacks & Bindings in WCF

- Understanding Channel Stack
- Introduction to Binding
- Types of Bindings.
- Binding Comparison
- Thumb rules in choosing endpoint binding
- Configuring a Service and Client for Multiple Bindings
- Binding Class Properties.

Chapter 5: Understanding Service and Data Contracts

- About Service Contract
- Data Contract & Data Member
- Versioning using Interface IExtensibleDataObject
- Version Tolerance
 - Implications of Modifying Service Operations
 - Implications of Modifying Data Contracts
- Working with Known Types

Chapter 6: Handling WCF Exceptions/Faults

- Overview
- Producing Faults
 - SOAP fault with FaultCode and FaultReason
 - Culture specific SOAP fault
 - Strongly Typed SOAP fault
- Consuming Faults
- Proxy State for Managed Exceptions Vs SOAP Fault

Chapter 7: Message Exchange Patterns

- Request – Reply Pattern
- One way Operations
- Duplex Pattern
- Duplex Publisher Subscriber Example

Chapter 8: Transactions

- What is Transaction and ACID
- How to enable Transaction in WCF Service
- TransactionScope in to begin a transaction.
- Transaction Isolation
- Transactions and Sessions

Chapter 9: MSMQ

- Introduction
- Advantages of using MSMQ
- Transactional Queues
- Steps to follow to Build a MSMQ application

Chapter 10 – WCF Security

- Concepts.
- Security Mechanisms.
- Default Security Settings.
- Demonstrate how Messages are encrypted.
- Authentication
 - Windows Authentication
 - HTTPS / SSL Authentication.
 - ASP.NET Membership Authentication
 - Custom Authentication
- Authorization
 - Windows Group/Role based Authorization
 - Custom Role based Authorization
 - ASP.NET Role Provider

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