WCF Multi-Layer Services Development with Entity Framework, 4th Edition

Mike Liu

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Create and deploy complete solutions with WCF and Entity Framework

About This Book

- Build SOA applications on Microsoft platforms
- Apply best practices to your WCF services and utilize Entity Framework to access underlying data storage
- A step-by-step, practical guide with nifty screenshots to create six WCF and Entity Framework solutions from scratch

Who This Book Is For

If you are a C#, VB.NET, or C++ developer and want to get started with WCF and Entity Framework, then this book is for you. Competence in Entity Framework will be needed to follow the examples in the book, but experience in creating WCF services using Entity Framework is not necessary. Developers and architects evaluating SOA implementation technologies for their company will find this book useful.

What You Will Learn

- Create a WCF service without using the built-in WCF templates so you can understand the versatility of what's going on under the hood
- Explore the different methods for hosting and debugging options for a WCF service
- Build a multi-layer, real-world WCF service from scratch by using WCF templates and Test Client
- Learn the basic and advanced features of Entity Framework and LINQ to Entities, and apply LINQ to Entities to the data access layer of a WCF service
- Convert a SOAP WCF service to a RESTful WCF service and create a Windows 8 app to consume a RESTful WCF service
- Configure the authorization and authentication security settings of WCF and get the details of hosting Windows authentication
- Explore the extension point architecture of WCF and extend a WCF service with custom behaviors

In Detail

This book will teach you all the essentials to develop WCF services using Entity Framework as the backend. You will be guided right through the creation of six WCF and Entity Framework solutions.

You will start off by creating, implementing, and hosting a basic HelloWorld WCF Service followed by deploying the service and publishing it to IIS. Next, you will learn how to create and test a layered service, and then enhance it further by adding a data access layer and exception handling. Next, you will be introduced to LINQ. Starting with the basics, you will then dive into the advanced concepts and features of LINQ to Entities, including Entity Framework, deferred execution, querying a view, and mapping a procedure. Finally, you will get to grips with the RESTful WCF services and security.

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