SSIS 2012, Part 10 of 11: Managing Packages

Meet the expert: Don Kiely is a featured instructor on many of our SQL Server and Visual Studio courses. He is a nationally recognized author, instructor, and consultant specializing in Microsoft technologies. Don has many years of teaching experience, is the author or co-author of several programming books, and has spoken at many industry conferences and user groups. In addition, Don is a consultant for a variety of companies that develop distributed applications for public and private organizations.

Prerequisites: This course assumes that you have a basic familiarity with the concept of relational databases and a basic understanding of what SQL Server is and the high-level tools in it, as well as how to create and manage objects using Management Studio. You should also have a basic understanding of how SQL Server implements security, including its authentication and authorization schemes, and how to assign permissions on securable objects to principals. You should know the fundamentals of Transact-SQL to write queries to retrieve data and join data from multiple tables, and how to execute scripts using the query editor in Management Studio. You must also know how to connect to an instance of SQL Server 2012 or 2014 using the various connection dialog boxes in Management Studio and development tools. It will be very helpful, but not absolutely necessary, to have experience with .NET development using Visual Studio 2013 or later for the portions of the course that deal with SQL Server Data Tools (which is a lot of it). At the very least, we’ll assume that you are well familiar with the Visual Studio user interface. This course assumes no prior knowledge of SQL Server Integration Services beyond what is covered in the previous SSIS courses.

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Course description: SQL Server and Integration Services provide plenty of tools for package management that you’ll learn about in this course. These include Management Studio and SQL Server Agent, as well as command line and graphical utilities like DTUtil, DTExec, and DTExecUI. With these tools you can execute packages in various ways and move, copy, and encrypt packages. To give one idea of how flexible these tools can be, there are at least four ways to execute a package, besides SQL Server Data Tools. You’ll learn some of the most important techniques for managing packages and some of the tools you can use, including those various ways to execute packages. There is a lot of overlapping functionality, so it is important to learn enough about all the tools so that you can use the ones best suited to your preferences, environment, and work style.

Course outline:

Managing Packages
- Introduction
- Managing Packages with DTUtil
- DTUtil Exit Codes
- DTUtil Samples
- DTUtil Samples (cont.)
- Managing with Management Studio
- Demo: Managing with Mgmt Studio
- Demo: Mgmt Studio Features
- Summary

Using The SSIS Catalog
- Introduction
- Using the SSIS Catalog
- Demo: Creating an SSIS Catalog
- Demo: Exploring the Catalog
- Demo: Catalog Properties
- Summary

SSIS Catalog Project Deployment
- Introduction
- Project Deployment
- Deploying Projects
- Demo: Converting a Project
- Demo: Select Configurations
- Demo: Convert & Test
- Demo: Deploy to SSIS Catalog
- Demo: Execute & Report
- Summary

Executing Packages
- Introduction
- Executing Packages
- DTExecUI: Execute Pkg Utility
- Demo: DTExecUI
- Summary

Executing Pkg at Command Line
- Introduction
- Demo: Execute at Cmd Line
- Demo: Executing Package
- Summary

Scheduling with SQLServerAgent
- Introduction
- Demo: Start SQL Server Agent
- Demo: Configure & Execute Job
- Summary