

Recipes For Continuous Database Integration Evolutionary Database Development Digital Short Cut Pramod J Sadalage

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Chapter 5 Continuous Database Integration 109 Not All Data Sources Are Alike Some projects, or portions of projects, don't use a database exactly the way that we define it in this chapter. However, most projects need to persist data, be it in a flat file, an XML file, a binary file, or an RDBMS. Regardless of your chosen persistent

Continuous Database Integration

Automated database integration How to automate database integration Using continuous database integration and a database sandbox. This chapter is an excerpt from the book, Continuous Integration: Improving Software Quality and Reducing Risk, authored by Paul Duvall, Steve Matyas, Andrew Glover. Published by Addison-Wesley Professional, June 2007.

How to automate database integration

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This is the eBook version of the printed book. The past few years have seen the rise of agile or evolutionary methods in software development. These methods embrace change in requirements even late in the project. The ability to change software is because of certain practices that are followed within teams, such as Test Driven Development, Pair Programming, and Continuous Integration. Continuous Integration provides a way for software teams to integrate their work more than once a day, and promotes confidence in the software that is being developed by the team. It is thought that this practice is difficult to apply when continuously integrating the database with application code; hence, Evolutionary Database Development is considered a mismatch with agile methods. Pramod Sadalage shows that this is not necessarily true. Continuous Integration changed the way software is written. Why not extend and make the database part of the same Continuous Integration cycle so that you can see integrated results of your application as well as your database? Delivered in PDF format for quick and easy access, Recipes for Continuous Database Integration shows how the database can be brought under the preview of Continuous Integration, allowing all teams to integrate not only their application code, but also their database. This Short Cut presents a recipe for each task that needs to be done. Each recipe starts with a statement of a problem, followed by an explanation and solution. It provides concrete ways and examples to implement ideas in Refactoring Databases: Evolutionary Database Design by Scott W Ambler and Pramod Sadalage. Table of Contents What This Short Cut Covers Introduction Recipe 1 Continuously Integrating? Recipe 2 Extracting Your Database in Scripts Recipe 3 Using Version Control for Your Database Recipe 4 Automating Database or Schema Creation Recipe 5 Creating Objects in Your Database Recipe 6 Removing Database Objects Recipe 7 Removing Your Database Recipe 8 Using the Build Property Files Recipe 9 Re-Creating Your Application Database for Any Build Recipe 10 Making It Easy for New Developers to Join the Team Recipe 11 Integrating on Every Check-In Recipe 12 Naming Upgrade Scripts Recipe 13 Automating Database Change Script Creation Recipe 14 Implementing Database Version Checking Recipe 15 Sending Upgrades to Customers Sample Code Further Reading About the Author What's in the Companion Book Related Publication

Get a problem-solution approach enriched with code examples for practical and easy comprehension About This Book Explore the use of more than 40 best-of-breed plug-ins for improving efficiency Secure and maintain Jenkins 2.x by integrating it with LDAP and CAS, which is a Single Sign-on solution Efficiently build advanced pipelines with pipeline as code, thus increasing your team's productivity Who This Book Is For If you are a Java developer, a software architect, a technical project manager, a build manager, or a development or QA engineer, then this book is ideal for you. A basic understanding of the software development life cycle and Java development is needed, as well as a rudimentary understanding of Jenkins. What You Will Learn Install and Configure Jenkins 2.x on AWS and Azure Explore effective ways to manage and monitor Jenkins 2.x Secure Jenkins 2.x using Matrix-based Security Deploying a WAR file from Jenkins 2.x to Azure App Services and AWS Beanstalk Automate deployment of application on AWS and Azure PaaS Continuous Testing – Unit Test Execution, Functional Testing and Load Testing In Detail Jenkins 2.x is one of the most popular Continuous Integration servers in the market today. It was designed to maintain, secure, communicate, test, build, and improve the software development process. This book will begin by guiding you through steps for installing and configuring Jenkins 2.x on AWS and Azure. This is followed by steps that enable you to manage and monitor Jenkins 2.x. You will also explore the ways to enhance the overall security of Jenkins 2.x. You will then explore the steps involved in improving the code quality using SonarQube. Then, you will learn the ways to improve quality, followed by how to run performance and functional tests against a web application and web services. Finally, you will see what the available plugins are, concluding with best practices to improve quality. Style and approach This book provides a problem-solution approach to some common tasks and some uncommon tasks using Jenkins 2.x and is well-illustrated with practical code examples.

Winner of the 2011 Jolt Excellence Award! Getting software released to users is often a painful, risky, and time-consuming process. This groundbreaking new book sets out the principles and technical practices that enable rapid, incremental delivery of high quality, valuable new functionality to users. Through

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automation of the build, deployment, and testing process, and improved collaboration between developers, testers, and operations, delivery teams can get changes released in a matter of hours— sometimes even minutes – no matter what the size of a project or the complexity of its code base. Jez Humble and David Farley begin by presenting the foundations of a rapid, reliable, low-risk delivery process. Next, they introduce the “ deployment pipeline, ” an automated process for managing all changes, from check-in to release. Finally, they discuss the “ ecosystem ” needed to support continuous delivery, from infrastructure, data and configuration management to governance. The authors introduce state-of-the-art techniques, including automated infrastructure management and data migration, and the use of virtualization. For each, they review key issues, identify best practices, and demonstrate how to mitigate risks. Coverage includes

- Automating all facets of building, integrating, testing, and deploying software
- Implementing deployment pipelines at team and organizational levels
- Improving collaboration between developers, testers, and operations
- Developing features incrementally on large and distributed teams
- Implementing an effective configuration management strategy
- Automating acceptance testing, from analysis to implementation
- Testing capacity and other non-functional requirements
- Implementing continuous deployment and zero-downtime releases
- Managing infrastructure, data, components and dependencies

Navigating risk management, compliance, and auditing Whether you ’ re a developer, systems administrator, tester, or manager, this book will help your organization move from idea to release faster than ever—so you can deliver value to your business rapidly and reliably.

This book is a printed edition of the Special Issue "Feature Papers for Celebrating the Fifth Anniversary of the Founding of Processes" that was published in Processes

Using Agile methods, you can bring far greater innovation, value, and quality to any data warehousing (DW), business intelligence (BI), or analytics project. However, conventional Agile methods must be carefully adapted to address the unique characteristics of DW/BI projects. In Agile Analytics, Agile pioneer Ken Collier shows how to do just that. Collier introduces platform-agnostic Agile solutions for integrating infrastructures consisting of diverse operational, legacy, and specialty systems that mix commercial and custom code. Using working examples, he shows how to manage analytics development teams with widely diverse skill sets and how to support enormous and fast-growing data volumes. Collier's techniques offer optimal value whether your projects involve "back-end" data management, "front-end" business analysis, or both. Part I focuses on Agile project management techniques and delivery team coordination, introducing core practices that shape the way your Agile DW/BI project community can collaborate toward success Part II presents technical methods for enabling continuous delivery of business value at production-quality levels, including evolving superior designs; test-driven DW development; version control; and project automation Collier brings together proven solutions you can apply right now--whether you're an IT decision-maker, data warehouse professional, database administrator, business intelligence specialist, or database developer. With his help, you can mitigate project risk, improve business alignment, achieve better results--and have fun along the way.

DevOps is a cultural and professional movement that's trying to break these walls. Focused on automation, collaboration, tool sharing and knowledge sharing, DevOps has been revealing that developers and system engineers have a lot to learn from one another. In this book, Danilo Sato will show you how to implement DevOps and Continuous Delivery practices so as to raise your system's deployment frequency at the same time as increasing the production application's stability and robustness. You will learn how to automate a web application's build and deploy phases and the infrastructure management, how to monitor the system deployed to production, how to evolve and migrate an architecture to the cloud and still get to know several other tools that you can use on your company

Refactoring has proven its value in a wide range of development projects – helping software professionals improve system designs, maintainability, extensibility, and performance. Now, for the first time, leading agile methodologist Scott Ambler and renowned consultant Pramodkumar Sadalage introduce powerful refactoring techniques specifically designed for database systems. Ambler and Sadalage demonstrate how small changes to table structures, data, stored procedures, and triggers can significantly enhance virtually any database design – without changing semantics. You ’ ll learn how to evolve database schemas in step with source code – and become far more effective in projects relying on iterative, agile methodologies. This comprehensive guide and reference helps you overcome the practical obstacles to refactoring real-world databases by covering every fundamental concept underlying database refactoring. Using start-to-finish examples, the authors walk you through refactoring simple standalone database applications as well as sophisticated multi-application scenarios. You ’ ll master every task involved in refactoring database schemas, and discover best practices for deploying refactorings in even the most complex production environments. The second half of this book systematically covers five major categories of database refactorings. You ’ ll learn how to use refactoring to enhance database structure, data quality, and referential integrity; and how to refactor both architectures and methods. This book provides an extensive set of examples built with Oracle and Java and easily adaptable for other languages, such as C#, C++, or VB.NET, and other databases, such as DB2, SQL Server, MySQL, and Sybase. Using this book ’ s techniques and examples, you can reduce waste, rework, risk, and cost – and build database systems capable of evolving smoothly, far into the future.

Explore the high-in demand core DevOps strategies with powerful DevOps tools such as Ansible, Jenkins, and Chef Key Features Get acquainted with methodologies and tools of the DevOps framework Perform continuous integration, delivery, deployment, and monitoring using DevOps tools Explore popular tools such as Git, Jenkins, Maven, Gerrit, Nexus, Selenium, and so on Embedded with assessments that will help you revise the concepts you have learned in this book Book Description DevOps is the most widely used software engineering culture and practice that aim sat software development and operation. Continuous integration is a cornerstone technique of DevOps that merges software code updates from developers into a shared central mainline. This book takes a practical approach and covers the tools and strategies of DevOps. It starts with familiarizing you with DevOps framework and then shows how to perform continuous delivery, integration, and deployment with DevOps. You will explore DevOps process maturity frameworks and progression models with checklist templates for each phase of DevOps. You will also be familiar with agile terminology, methodology, and the benefits accrued by an organization by adopting it. You will also get acquainted with popular tools such as Git, Jenkins, Maven, Gerrit, Nexus, Selenium, and so on. You will learn configuration, automation, and the implementation of infrastructure automation (Infrastructure as Code) with tools such as Chef and Ansible. This book is ideal for engineers, architects, and developers, who wish to learn the core strategies of DevOps. What you will learn Get familiar with life cycle models, maturity states, progression and best practices of DevOps frameworks Learn to set up Jenkins and integrate it with Git Know how to build jobs and perform testing with Jenkins Implement infrastructure automation (Infrastructure as Code) with tools such as Chef and Ansible Understand continuous monitoring process with tools such as Splunk and Nagios Learn how Splunk improves the code quality Who this book is for This book is for engineers, architects, and developers, who wish to learn the core strategies of DevOps.

In this first book dedicated to the logistics of chemical plants and production processes, authors from academia and industry -- such as Bayer, Degussa, Merck -- provide an overview of the field, incorporating the knowledge and experience gathered over the last 10 years. In so doing, they describe the latest ideas on efficient design, illustrating when to produce which part of the equipment and with which resources, so as to optimize chemical plants for high capacity and flexibility. This book gives an overview of the state-of-the-art of the whole logistic chain of chemical production processes. Alongside the fundamentals, tools and algorithms, and integration issues, the book features five significant industrial case studies.

This book provides the database professional and power user with working solutions for daily business tasks. The goal has been to reduce needless writing and concentrate on the daily needs of database usage and development. An efficient database professional does not need a book to tell him or her how to execute a query or how many types of queries Access 2007 supports; the answers are a click away in the help file or online. What power users and developers need is thought-out solutions to show them the way to achieve their difficult tasks without having to look around for hours, days, or sometimes weeks. In addition, they need a

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book to show them when something is possible, when it is not, how many ways exist to achieve a task, and which one is the most efficient. Furthermore, the table of contents is not arranged by topic (tables, queries, reports, etc) but by solution. The content of the book should be practical and the layout should help the professional find what he or she needs in seconds. Learn how to use your databases for real business tasksPindar has worked on hundreds of business databases and operational systems for the last 18 years. In this book, he provides actual scenarios and code you can use in your daily business situations. Actually, you will get many ideas of how to employ Access 2007 to get data in ways you were not aware it was possible. Some examples, especially in the beginning of each chapter are quite simple so that readers with less Access experience can follow and learn but they are definitely not simplistic. Leave superfluous theory on the side and focus on the essence of your operations You might be taught a thousand pieces of theory and politically correct techniques on databases. In the end, what you will need is a way to accomplish your task. This book will show you exactly the concepts you should learn and expand on them in detail. Theory is present but only to support a practical technique; not for the sake of it. Concentrate on holistic solutions and not clustered technical skills This book leaves behind the classical format of texts. Instead of providing multiple and isolated concepts, it combines the necessary techniques to arrive to a real world solution. For example, instead of just showing what a date function is, it demonstrates how it can be used in combination with clauses and other functions to obtain order processing cycle times or order fulfillment goals for your corporation. At the end of the day, when you read a book, you need to be able to use your knowledge to achieve a task. The business table of contentsYou will find a novelty in this book which is its business table of contents. There are two tables of contents in this book. There is the classical one to find what you need on database concepts. However, there is also a business table of contents you can consult to find the business solution you need. For example, how to conditionally update product prices from multiple suppliers and by various percentages. Use this book as a handy referenceFinally, this book has been written with the idea of using it as a reference. You might need to flip its pages to check something simple like the correct use of quotes in criteria expressions or concatenated fields. Or you might need to check something more elaborate like how to use a subquery to manipulate data in one table based on the values of another table.

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