
Automated Testing Best Practices Performer

Model-Based Testing Essentials - Guide to the ISTQB Certified Model-Based Tester
 Design Patterns for High-quality Automated Test
 A Simple Guide to Software Testing!
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 Complete Guide to Test Automation
 Working Effectively with Legacy Code
 Automated Test A Complete Guide - 2020 Edition
 Automated Software Testing
 Pro .NET Best Practices
 Improving Software Testing
 The Automated Testing Handbook
 Continuous Delivery
 Dr. Dobb's Journal
 Automated Testing Framework Second Edition
 Learning Software Testing with Test Studio
 How We Test Software at Microsoft
 Test Automation Fundamentals
 C++ Coding Standards
 Learning Android Application Programming for the Kindle Fire
 Automated Testing in Microsoft Dynamics 365 Business Central

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Model-Based Testing Essentials - Guide to the ISTQB Certified Model-Based Tester Addison-Wesley Professional
 Welcome to the world of software testing, where the effectiveness and reliability of software applications are put to the ultimate test. In this book, "Manual and Automated Software Testing," we embark on a journey to explore the intricate realm of software testing, shedding light on both manual and automated techniques that play a vital role in ensuring software quality in brief and simple way. In today's digital age, where software applications have become an integral part of our daily lives, it is essential to deliver products that not only meet user expectations but also function flawlessly. Software testing serves as the cornerstone of this process, enabling organizations to identify defects, mitigate risks, and provide a seamless user experience. You can learn the fundamentals & types of Software Testing, the key concepts, methodologies, and terminologies that form the basis of this discipline. From test planning and test case

design to test execution and defect management, we cover the entire testing life cycle, providing you with a solid foundation. We delve into the world of manual testing, where human intervention plays a crucial role. We explore various techniques such as black-box testing, white-box testing, and grey-box testing, explaining their purpose and how they are executed. Through practical examples and real-world scenarios, we demonstrate how manual testing can effectively uncover defects and validate software functionality. Software Quality Automation has revolutionized the field of software testing, enabling faster and more efficient validation of applications. In this chapter, we demystify test automation, shedding light on the tools, frameworks, and best practices involved. Combining Manual and Automated Testing for Optimal Results While manual and automated testing techniques each have their strengths, combining them strategically can yield remarkable results. We also explore how manual and automated testing can complement each other, creating a robust testing approach. Effective test management and documentation are critical to any successful testing endeavor. We explore test management tools and methodologies that help streamline the testing process and ensure clear communication between testers,

developers, and stakeholders. Special Testing area, software applications must also meet performance and security standards. The performance testing and security testing, two specialized areas within software testing. We discuss testing methods to evaluate application performance under different conditions and methods to identify vulnerabilities and protect against potential threats. We can also explore emerging trends such as artificial intelligence, machine learning, and DevOps, and their impact on the testing landscape. We also discuss the importance of continuous testing in an agile development environment. More advanced topics could be found from various online resources. Wish you good luck!

Design Patterns for High-quality Automated Test Pearson Education

Stereotypes portray software engineers as a reckless lot, and stereotypes paint software configuration management (SCM) devotees as inflexible. Based on these impressions, it is no wonder that projects can be riddled with tension! The truth probably lies somewhere in between these stereotypes, and this book shows how proven SCM practices can foster a healthy team-oriented culture that produces better software. The authors show that workflow, when properly managed, can avert delays, morale problems, and cost overruns. A patterns approach (proven solutions to recurring problems) is outlined so that SCM can be easily applied and successfully leveraged in small to medium sized organizations. The patterns are presented with an emphasis on practicality. The results speak for themselves: improved processes and a motivated workforce that synergize to produce better quality software.

A Simple Guide to Software Testing! Addison-Wesley Professional
It may surprise you to learn that Microsoft employs as many software testers as developers. Less surprising is the emphasis the company places on the testing discipline—and its role in managing quality across a diverse, 150+ product portfolio. This book—written by three of Microsoft’s most prominent test professionals—shares the best practices, tools, and systems used by the company’s 9,000-strong corps of testers. Learn how your colleagues at Microsoft design and manage testing, their approach to training and career development, and what challenges they see ahead. Most important, you’ll get practical insights you can apply for better results in your organization. Discover how to: Design effective tests and run them throughout the product lifecycle Minimize cost and risk with functional tests, and know when to apply structural techniques Measure code complexity to identify bugs and potential maintenance issues Use models to generate test cases, surface unexpected application behavior, and manage risk Know when to employ automated tests, design them for long-term use, and plug into an automation infrastructure Review the hallmarks of great testers—and the tools they use to run tests, probe systems, and track progress efficiently Explore the challenges of testing services vs. shrink-wrapped software

Effective Software Testing Addison-Wesley Professional
About This Book Achieving high-quality test automation that brings value- you need to understand core programming concepts such as SOLID and the usage of design patterns. After you master them, the usual career transition is into more architecture roles, such as choosing the best possible approaches for solving particular test automation challenges. You will get an access to more than 20000+ lines of real-world code examples. Who This Book Is For The book is NOT a getting started guide! If you don't have any prior programming experience in writing automated tests through WebDriver, I suggest you to first start with some book about basic programming and basic WebDriver usage. I believe it might be invaluable for the readers that have a

couple of years of experience and whose job is to create/maintain test automation frameworks, or to write high-quality reliable automated tests. The book is written in C#. However, I think that you can use the approaches and practices in every OOP language. If you have a Java background (or similar), you will get everything you need, don't worry. Even if you don't get all the concepts from the first read, try to use and incorporate some of them, later you can return and reread them. I believe with the accumulation of experience using high-quality practices- you will become a hard-core test automation ninja! What You Will Learn Learn how to optimize and stabilize your flaky tests. Learn how to handle asynchronous web pages in your tests. Automatically deal with AJAX and jQuery. Improve Test Readability, Maintainability, Reusability, Extensibility by incorporating 10+ design patterns: Page Object Model, Facade, Decorator, Observer, Strategy, Singleton, Fluent Interface, Template Method, Abstract Factory, Factory Method, Repository, Lazy Load. Learn what are the SOLID principles and how they can improve your test code. We will also discuss other essential programming principles such as composition, DRY, KISS and others. Learn how to asses and choose the best possible design for your framework or library. Learn how the benchmarking your code can help you to speed up your tests. Learn how to design and build your framework to handle test data and different test environments. Learn about high quality code practices and naming convention so that your code get much more understandable.

Test Automation A Complete Guide - 2020 Edition John Wiley & Sons

Provides a practical and comprehensive introduction to the key aspects of model-based testing as taught in the ISTQB® Model-Based Tester—Foundation Level Certification Syllabus This book covers the essentials of Model-Based Testing (MBT) needed to pass the ISTQB® Foundation Level Model-Based Tester Certification. The text begins with an introduction to MBT, covering both the benefits and the limitations of MBT. The authors review the various approaches to model-based testing, explaining the fundamental processes in MBT, the different modeling languages used, common good modeling practices, and the typical mistakes and pitfalls. The book explains the specifics of MBT test implementation, the dependencies on modeling and test generation activities, and the steps required to automate the generated test cases. The text discusses the introduction of MBT in a company, presenting metrics to measure success and good practices to apply. Provides case studies illustrating different approaches to Model-Based Testing Includes in-text exercises to encourage readers to practice modeling and test generation activities Contains appendices with solutions to the in-text exercises, a short quiz to test readers, along with additional information Model-Based Testing Essentials - Guide to the ISTQB® Certified Model-Based Tester - Foundation Level is written primarily for participants of the ISTQB® Certification: software engineers, test engineers, software developers, and anybody else involved in software quality assurance. This book can also be used for anyone who wants a deeper understanding of software testing and of the use of models for test generation.

Software Testing Automation Tips Packt Publishing Ltd
How could a test suite support prevention of defects? What are the metrics that are unique to test? How will you decide what functionality to change to make a Test work? Do you save money with test automation? How can a test automation concept be designed to support flexible and systematic testing? Defining, designing, creating, and implementing a process to solve a challenge or meet an objective is the most valuable role... In EVERY group, company, organization and department. Unless you are talking a one-time, single-use project, there should be a

process. Whether that process is managed and implemented by humans, AI, or a combination of the two, it needs to be designed by someone with a complex enough perspective to ask the right questions. Someone capable of asking the right questions and step back and say, 'What are we really trying to accomplish here? And is there a different way to look at it?' This Self-Assessment empowers people to do just that - whether their title is entrepreneur, manager, consultant, (Vice-)President, CxO etc... - they are the people who rule the future. They are the person who asks the right questions to make Automated Test investments work better. This Automated Test All-Inclusive Self-Assessment enables You to be that person. All the tools you need to an in-depth Automated Test Self-Assessment. Featuring 992 new and updated case-based questions, organized into seven core areas of process design, this Self-Assessment will help you identify areas in which Automated Test improvements can be made. In using the questions you will be better able to: - diagnose Automated Test projects, initiatives, organizations, businesses and processes using accepted diagnostic standards and practices - implement evidence-based best practice strategies aligned with overall goals - integrate recent advances in Automated Test and process design strategies into practice according to best practice guidelines Using a Self-Assessment tool known as the Automated Test Scorecard, you will develop a clear picture of which Automated Test areas need attention. Your purchase includes access details to the Automated Test self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows your organization exactly what to do next. You will receive the following contents with New and Updated specific criteria: - The latest quick edition of the book in PDF - The latest complete edition of the book in PDF, which criteria correspond to the criteria in... - The Self-Assessment Excel Dashboard - Example pre-filled Self-Assessment Excel Dashboard to get familiar with results generation - In-depth and specific Automated Test Checklists - Project management checklists and templates to assist with implementation INCLUDES LIFETIME SELF ASSESSMENT UPDATES Every self assessment comes with Lifetime Updates and Lifetime Free Updated Books. Lifetime Updates is an industry-first feature which allows you to receive verified self assessment updates, ensuring you always have the most accurate information at your fingertips.

Agile Testing Pearson Education

What kind of tool chain do you need to support automated testing? Should you rerun all (or most) of your automated tests in every build? What does the test effort hope to accomplish? What is a limitation of test automation? Is the server a production server or one dedicated to testing the application under test? Defining, designing, creating, and implementing a process to solve a challenge or meet an objective is the most valuable role... In EVERY group, company, organization and department. Unless you are talking a one-time, single-use project, there should be a process. Whether that process is managed and implemented by humans, AI, or a combination of the two, it needs to be designed by someone with a complex enough perspective to ask the right questions. Someone capable of asking the right questions and step back and say, 'What are we really trying to accomplish here? And is there a different way to look at it?' This Self-Assessment empowers people to do just that - whether their title is entrepreneur, manager, consultant, (Vice-)President, CxO etc... - they are the people who rule the future. They are the person who asks the right questions to make Test Automation investments work better. This Test Automation All-Inclusive Self-Assessment enables You to be that person. All the tools you need to an in-depth Test Automation Self-Assessment. Featuring 2219 new and updated case-based questions, organized into seven core areas

of process design, this Self-Assessment will help you identify areas in which Test Automation improvements can be made. In using the questions you will be better able to: - diagnose Test Automation projects, initiatives, organizations, businesses and processes using accepted diagnostic standards and practices - implement evidence-based best practice strategies aligned with overall goals - integrate recent advances in Test Automation and process design strategies into practice according to best practice guidelines Using a Self-Assessment tool known as the Test Automation Scorecard, you will develop a clear picture of which Test Automation areas need attention. Your purchase includes access details to the Test Automation self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows your organization exactly what to do next. You will receive the following contents with New and Updated specific criteria: - The latest quick edition of the book in PDF - The latest complete edition of the book in PDF, which criteria correspond to the criteria in... - The Self-Assessment Excel Dashboard - Example pre-filled Self-Assessment Excel Dashboard to get familiar with results generation - In-depth and specific Test Automation Checklists - Project management checklists and templates to assist with implementation INCLUDES LIFETIME SELF ASSESSMENT UPDATES Every self assessment comes with Lifetime Updates and Lifetime Free Updated Books. Lifetime Updates is an industry-first feature which allows you to receive verified self assessment updates, ensuring you always have the most accurate information at your fingertips.

A Frontend Web Developer's Guide to Testing Createspace Independent Publishing Platform

Offers instructions on building applications for the Kindle Fire, covering such topics as configuring the Android manifest file, building an application framework, the testing phase, and publishing the finished product.

The Agile Testing Collection 5starcooks

How do successful agile teams deliver bug-free, maintainable software—iteration after iteration? The answer is: By seamlessly combining development and testing. On such teams, the developers write testable code that enables them to verify it using various types of automated tests. This approach keeps regressions at bay and prevents “testing crunches”—which otherwise may occur near the end of an iteration—from ever happening. Writing testable code, however, is often difficult, because it requires knowledge and skills that cut across multiple disciplines. In *Developer Testing*, leading test expert and mentor Alexander Tarlinder presents concise, focused guidance for making new and legacy code far more testable. Tarlinder helps you answer questions like: When have I tested this enough? How many tests do I need to write? What should my tests verify? You'll learn how to design for testability and utilize techniques like refactoring, dependency breaking, unit testing, data-driven testing, and test-driven development to achieve the highest possible confidence in your software. Through practical examples in Java, C#, Groovy, and Ruby, you'll discover what works—and what doesn't. You can quickly begin using Tarlinder's technology-agnostic insights with most languages and toolsets while not getting buried in specialist details. The author helps you adapt your current programming style for testability, make a testing mindset “second nature,” improve your code, and enrich your day-to-day experience as a software professional. With this guide, you will Understand the discipline and vocabulary of testing from the developer's standpoint Base developer tests on well-established testing techniques and best practices Recognize code constructs that impact testability Effectively name, organize, and execute unit tests Master the essentials of classic and “mockist-style” TDD Leverage test doubles with or without mocking

frameworks Capture the benefits of programming by contract, even without runtime support for contracts Take control of dependencies between classes, components, layers, and tiers Handle combinatorial explosions of test cases, or scenarios requiring many similar tests Manage code duplication when it can't be eliminated Actively maintain and improve your test suites Perform more advanced tests at the integration, system, and end-to-end levels Develop an understanding for how the organizational context influences quality assurance Establish well-balanced and effective testing strategies suitable for agile teams

Experiences of Test Automation Addison-Wesley Professional Rely on this robust and thorough guide to build and maintain successful test automation. As the software industry shifts from traditional waterfall paradigms into more agile ones, test automation becomes a highly important tools that allows your development teams to deliver software at an ever-increasing pace without compromising quality. Even though it may seem trivial to automate the repetitive tester's work, using test automation efficiently and properly is not trivial. Many test automation endeavors end up in the "graveyard" of software projects. There are many things that affect the value of test automation, and also its costs. This book aims to cover all of these aspects in great detail so you can make decisions to create the best test automation solution that will not only help your test automation project to succeed, but also allow the entire software project to thrive. One of the most important details that affects the success of the test automation is how easy it is to maintain the automated tests. "Complete guide to test automation" provides a detailed hands-on guide to writing highly maintainable test code. What you'll learn: Know the real value to be expected from test automation ; Discover the key traits that will make your test automation project succeed ; Be aware of the different considerations to take into account when planning automated tests vs. manual tests ; Determine who should implement the tests and the implications of this decision ; Architect the test project and fit it to the architecture of the tested application ; Design and implement highly reliable automated tests ; Begin gaining value from test automation earlier ; Integrate test automation into the business processes of the development team ; Leverage test automation to improve your organization's performance and quality, even without formal authority ; Understand how different types of automated tests will fit into your testing strategy, including unit testing, load and performance testing, visual testing, and more.

Test Automation Best Practices Prentice Hall Professional "This book discusses the current state of test automation practices, as it includes chapters related to software test automation and its validity and applicability in different domains"-Provided by publisher.

How Google Tests Software Independently Published The trend of software development is moving towards frequent releases backed up by automated functional testing. Continuous Testing (CT), a key process of DevOps, executes automated end-to-end (UI) as regression testing, frequently on new builds. If all tests pass, the software is ready for a production release. there are test failures, the team must act quickly on the feedback. This book presents a practical approach to implementing real Continuous Testing. Topics include: Why do traditional CI servers, e.g. Jenkins, always fail to manage UI test executions? Set up a BuildWise (free, open-source) CT server to run Selenium tests in minutes Sequential Build, run selected tests on the CT server machine Custom test executions with Rake ParallelBuild, distribute tests to build agents to run them in parallel CT best practices, such as Dynamic Ordering, Auto-Retry, Manual-Retry,

..., etc. Advice on setting up a parallel testing lab

Software Testing and Quality Assurance Microsoft Press Learn how to write automated tests for Dynamics 365 Business Central and discover how you can implement them in your daily work Key Features Leverage automated testing to advance over traditional manual testing methods Write, design, and implement automated tests Explore various testing frameworks and tools compatible with Microsoft Dynamics 365 Business Central Book Description Dynamics 365 Business Central is a cloud-based SaaS ERP proposition from Microsoft. With development practices becoming more formal, implementing changes or new features is not as simple as it used to be back when Dynamics 365 Business Central was called Navigator, Navision Financials, or Microsoft Business Solutions-Navision, and the call for test automation is increasing. This book will show you how to leverage the testing tools available in Dynamics 365 Business Central to perform automated testing. Starting with a quick introduction to automated testing and test-driven development (TDD), you'll get an overview of test automation in Dynamics 365 Business Central. You'll then learn how to design and build automated tests and explore methods to progress from requirements to application and testing code. Next, you'll find out how you can incorporate your own as well as Microsoft tests into your development practice. With the addition of three new chapters, this second edition covers in detail how to construct complex scenarios, write testable code, and test processes with incoming and outgoing calls. By the end of this book, you'll be able to write your own automated tests for Microsoft Business Central. What you will learn Understand the why and when of automated testing Discover how test-driven development can help to improve automated testing Explore the six pillars of the Testability Framework of Business Central Design and write automated tests for Business Central Make use of standard automated tests and their helper libraries Understand the challenges in testing features that interact with the external world Integrate automated tests into your development practice Who this book is for This book is for consultants, testers, developers, and development managers working with Microsoft Dynamics 365 Business Central. Functional as well as technical development teams will find this book on automated testing techniques useful.

Design Patterns for High-Quality Automated Tests Addison-Wesley Professional

"This book fills a huge gap in our knowledge of software testing. It does an excellent job describing how test automation differs from other test activities, and clearly lays out what kind of skills and knowledge are needed to automate tests. The book is essential reading for students of testing and a bible for practitioners." -Jeff Offutt, Professor of Software Engineering, George Mason University "This new book naturally expands upon its predecessor, Automated Software Testing, and is the perfect reference for software practitioners applying automated software testing to their development efforts. Mandatory reading for software testing professionals!" -Jeff Rashka, PMP, Coauthor of Automated Software Testing and Quality Web Systems Testing accounts for an increasingly large percentage of the time and cost of new software development. Using automated software testing (AST), developers and software testers can optimize the software testing lifecycle and thus reduce cost. As technologies and development grow increasingly complex, AST becomes even more indispensable. This book builds on some of the proven practices and the automated testing lifecycle methodology (ATLM) described in Automated Software Testing and provides a renewed practical, start-to-finish guide to implementing AST successfully. In Implementing Automated Software Testing, three leading experts explain AST in detail, systematically reviewing its

components, capabilities, and limitations. Drawing on their experience deploying AST in both defense and commercial industry, they walk you through the entire implementation process—identifying best practices, crucial success factors, and key pitfalls along with solutions for avoiding them. You will learn how to: Make a realistic business case for AST, and use it to drive your initiative Clarify your testing requirements and develop an automation strategy that reflects them Build efficient test environments and choose the right automation tools and techniques for your environment Use proven metrics to continuously track your progress and adjust accordingly Whether you're a test professional, QA specialist, project manager, or developer, this book can help you bring unprecedented efficiency to testing—and then use AST to improve your entire development lifecycle.

Developer Testing Packt Publishing Ltd

Concepts, methods, and techniques—supported with practical, real-world examples The first book to cover the ISTQB® Certified Test Automation Engineer syllabus With real-world project examples – Suitable as a textbook, as a reference book for ISTQB® training courses, and for self-study This book provides a complete overview of how to design test automation processes and integrate them into your organization or existing projects. It describes functional and technical strategies and goes into detail on the relevant concepts and best practices. The book's main focus is on functional system testing. Important new aspects of test automation, such as automated testing for mobile applications and service virtualization, are also addressed as prerequisites for creating complex but stable test processes. The text also covers the increase in quality and potential savings that test automation delivers. The book is fully compliant with the ISTQB® syllabus and, with its many explanatory examples, is equally suitable for preparation for certification, as a concise reference book for anyone who wants to acquire this essential skill, or for university-level study.

Instant Approach to Software Testing Pearson Education

Learning Software Testing with Test Studio is a practical, hands-on guide that will help you get started with Test Studio to design your automated solution and tests. All through the book, there are best practices and tips and tricks inside Test Studio which can be employed to improve your solution just like an experienced QA. If you are a beginner or a professional QA who is seeking a fast, clear, and direct to the point start in automated software testing inside Test Studio, this book is for you. You should be familiar with the .NET framework, mainly Visual Studio, C#, and SQL, as the book's examples rely on them. Prior testing knowledge will also be helpful.

Advanced Automated Software Testing: Frameworks for Refined Practice Apress

In the fast-paced world of software development, ensuring the reliability and quality of your applications is paramount. "Software Testing and Quality Assurance" is your definitive guide to mastering the art of software testing and quality assurance to deliver robust, error-free software products. This comprehensive book takes you on a journey through the entire software testing lifecycle, from understanding the fundamental principles to implementing advanced testing strategies. You'll explore a wide range of testing methodologies, tools, and best practices that are crucial for building software that not only meets but exceeds user expectations. Key Features: Comprehensive Coverage: Gain a deep understanding of software testing, starting from the basics and progressing to advanced topics like automation, performance testing, and security testing. Real-world Examples: Learn from real-world examples and case studies that illustrate common testing challenges and how to overcome them. Test Automation:

Explore the world of test automation, including frameworks and tools, to streamline your testing processes and increase efficiency. Quality Assurance: Dive into quality assurance practices that will help you implement quality checks at every stage of development. Testing in Agile and DevOps: Discover how to integrate testing seamlessly into Agile and DevOps environments to achieve continuous testing and delivery. Best Practices: Learn best practices for defect tracking, test reporting, and creating a culture of quality within your organization. Whether you're a seasoned QA professional looking to sharpen your skills or a developer aiming to produce higher-quality code, "Software Testing and Quality Assurance" equips you with the knowledge and tools needed to excel in the world of software testing. This book is an invaluable resource for anyone striving to deliver software that stands the test of time. Get ready to embark on a journey towards software excellence. Order your copy of "Software Testing and Quality Assurance" today.

Practical Continuous Testing 5starcooks

With the advent of agile methodologies, testing is becoming the responsibility of more and more team members. In this new book, noted testing expert Dustin imparts the best of her collected wisdom. She presents 50 specific tips for a better testing program. These 50 tips are divided into ten sections, and presented so as to mirror the chronology of a software project.

Implementing Automated Software Testing Apress

This book is a comprehensive guide to frontend web app testing. You'll develop a solid understanding of the advanced features that lead testing frameworks offer and the pillars of a successful web app testing strategy. With this book, you'll be able to devise a suitable testing strategy using both code coverage and test coverage measurements.

Software Configuration Management Patterns George Ukkuru

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 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.