



# CONTINUOUS INTEGRATION

IMPROVING SOFTWARE QUALITY  
AND REDUCING RISK

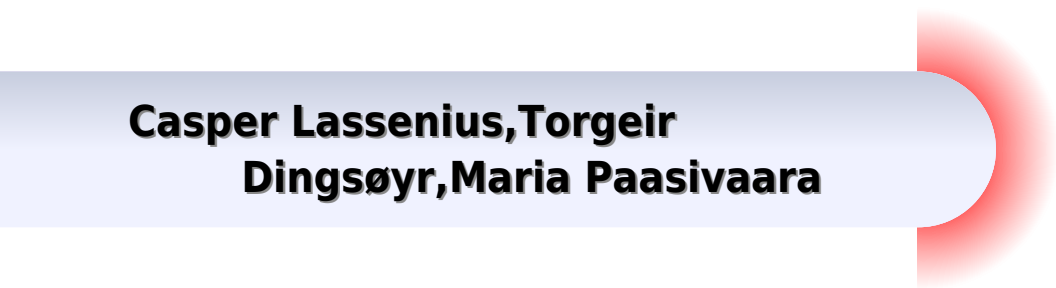
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*Forewords by Martin Fowler and Paul Julius*

# Continuous Integration Improving Software Quality And Reducing Risk

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## **Continuous Integration Improving Software Quality And Reducing Risk:**

*Continuous Integration* Paul M. Duvall, Steve Matyas, Andrew Glover, 2007-06-29 For any software developer who has spent days in integration hell cobbling together myriad software components *Continuous Integration Improving Software Quality and Reducing Risk* illustrates how to transform integration from a necessary evil into an everyday part of the development process The key as the authors show is to integrate regularly and often using continuous integration CI practices and techniques The authors first examine the concept of CI and its practices from the ground up and then move on to explore other effective processes performed by CI systems such as database integration testing inspection deployment and feedback Through more than forty CI related practices using application examples in different languages readers learn that CI leads to more rapid software development produces deployable software at every step in the development lifecycle and reduces the time between defect introduction and detection saving time and lowering costs With successful implementation of CI developers reduce risks and repetitive manual processes and teams receive better project visibility The book covers How to make integration a non event on your software development projects How to reduce the amount of repetitive processes you perform when building your software Practices and techniques for using CI effectively with your teams Reducing the risks of late defect discovery low quality software lack of visibility and lack of deployable software Assessments of different CI servers and related tools on the market The book's companion Web site [www.integratebutton.com](http://www.integratebutton.com) provides updates and code examples *Continuous Integration* Duvall, 2007 *Blameless Continuous Integration* Vivek Ganesan, 2017-04-25 Does your organization frown upon build breakers Does your team spend a lot of time fixing integration issues Do you see a lot of who broke the build now emails Do your team members hesitate to commit their code for the fear of causing a build failure If you wish to know what you can do to make the situation better this book is for you

Dependability Engineering Fausto Pedro García Márquez, Mayorkinos Papaelias, 2018-06-06 The new technology and system communication advances are being employed in any system being more complex The system dependability considers the technical complexity size and interdependency of the system The stochastic characteristic together with the complexity of the systems as dependability requires to be under control the Reliability Availability Maintainability and Safety RAMS The dependability contemplates therefore the faults failures downtimes stoppages worker errors etc Dependability also refers to emergent properties i.e. properties generated indirectly from other systems by the system analyzed Dependability understood as general description of system performance requires advanced analytics that are considered in this book Dependability management and engineering are covered with case studies and best practices The diversity of the issues will be covered from algorithms mathematical models and software engineering by design methodologies and technical or practical solutions This book intends to provide the reader with a comprehensive overview of the current state of the art case studies hardware and software solutions analytics and data science in dependability engineering **The Scrum Field Guide** Mitch

Lacey,2015-12-22 Thousands of organizations are adopting Scrum to transform the way they execute complex projects in software and beyond This guide will give you the skills and confidence needed to deploy Scrum resulting in high performing teams and satisfied customers Drawing on years of hands on experience helping companies succeed Certified Scrum Trainer CST Mitch Lacey helps you overcome the major challenges of Scrum adoption and the deeper issues that emerge later Extensively revised to reflect improved Scrum practices and tools this edition adds an all new section of tips from the field Lacey covers many new topics including immersive interviewing collaborative estimation and deepening business alignment In 35 engaging chapters you ll learn how to build support and maximize value across your company Now part of the renowned Mike Cohn Signature Series on agile development this pragmatic guide addresses everything from establishing roles and priorities to determining team velocity setting sprint length and conducting customer reviews Coverage includes Bringing teams and new team members on board Creating a workable definition of done Planning for short term wins and removing impediments to success Balancing predictability and adaptability in release planning Running productive daily scrums Fixing failing sprints Accurately costing projects and measuring the value they deliver Managing risks in dynamic Scrum projects Prioritizing and estimating backlogs Working with distributed and offshore teams Institutionalizing improvements and extending agility throughout the organization Packed with real world examples straight from Lacey s experience this book will be invaluable to anyone transitioning to Scrum seeking to improve their early results or trying to get back on track

Advances in Intelligent Process-Aware Information Systems Gregor Grambow,Roy Oberhauser,Manfred Reichert,2017-05-22 This book provides a state of the art perspective on intelligent process aware information systems and presents chapters on specific facets and approaches applicable to such systems Further it highlights novel advances and developments in various aspects of intelligent process aware information systems and business process management systems Intelligence capabilities are increasingly being integrated into or created in many of today s software products and services Process aware information systems provide critical computing infrastructure to support the various processes involved in the creation and delivery of business products and services Yet the integration of intelligence capabilities into process aware information systems is a non trivial yet necessary evolution of these complex systems The book s individual chapters address adaptive process management case management processes autonomically capable processes process oriented information logistics process recommendations reasoning over process models process portability and business process intelligence The primary target groups are researchers and PhD Master students in the field of information systems

**Continuous Delivery with Docker and Jenkins** Rafał Leszko,2019-05-31 Create a complete Continuous Delivery process using modern DevOps tools such as Docker Kubernetes Jenkins Docker Hub Ansible GitHub and many more Key FeaturesBuild reliable and secure applications using Docker containers Create a highly available environment to scale a Docker servers using KubernetesImplement advance continuous delivery process by parallelizing the pipeline tasksBook Description Continuous

Delivery with Docker and Jenkins Second Edition will explain the advantages of combining Jenkins and Docker to improve the continuous integration and delivery process of an app development. It will start with setting up a Docker server and configuring Jenkins on it. It will then provide steps to build applications on Docker files and integrate them with Jenkins using continuous delivery processes such as continuous integration, automated acceptance testing, and configuration management. Moving on, you will learn how to ensure quick application deployment with Docker containers along with scaling Jenkins using Kubernetes. Next, you will get to know how to deploy applications using Docker images and testing them with Jenkins. Towards the end, the book will touch base with missing parts of the CD pipeline which are the environments and infrastructure, application versioning, and nonfunctional testing. By the end of the book, you will be enhancing the DevOps workflow by integrating the functionalities of Docker and Jenkins. What you will learn: Get to grips with Docker fundamentals and how to Dockerize an application for the CD process. Learn how to use Jenkins on the Cloud environments. Scale a pool of Docker servers using Kubernetes. Create multi-container applications using Docker Compose. Write acceptance tests using Cucumber and run them in the Docker ecosystem using Jenkins. Publish a built Docker image to a Docker Registry and deploy cycles of Jenkins pipelines using community best practices. Who this book is for: The book targets DevOps engineers, system administrators, Docker professionals, or any stakeholders who would like to explore the power of working with Docker and Jenkins together. No prior knowledge of DevOps is required for this book. **.NET DevOps for Azure** Jeffrey

Palermo, 2019-10-21 Use this book as your one-stop shop for architecting a world-class DevOps environment with Microsoft technologies. .NET DevOps for Azure is a synthesis of practices, tools, and process that together can equip a software organization to move fast and deliver the highest quality software. The book begins by discussing the most common challenges faced by developers in DevOps today and offers options and proven solutions on how to implement DevOps for your team. Daily millions of developers use .NET to build and operate mission-critical software systems for organizations around the world. While the marketplace has scores of information about the technology, it is completely up to you to put together all the blocks in the right way for your environment. This book provides you with a model to build on. The relevant principles are covered first, along with how to implement that part of the environment. And while variances in tools, language, or requirements will change the needed implementation, the DevOps model is the architecture for the working environment for your team. You can modify parts of the model to customize it to your enterprise, but the architecture will enable all of your teams and applications to accelerate in performance. What You Will Learn: Get your .NET applications into a DevOps environment in Azure. Analyze and address the part of your DevOps process that causes delays or bottlenecks. Track code using Azure Repos and conduct acceptance tests. Apply the rules for segmenting applications into Git repositories. Understand the different types of builds and when to use each. Know how to think about code validation in your DevOps environment. Provision and configure environments, deploy release candidates across the environments in Azure. Monitor and support

software that has been deployed to a production environment Who This Book Is For NET Developers who are using or want to use DevOps in Azure but don't know where to begin Agile Processes in Software Engineering and Extreme Programming Casper Lassenius, Torgeir Dingsøyr, Maria Paasivaara, 2015-05-15 This book contains the refereed proceedings of the 16th International Conference on Agile Software Development XP 2015 held in Helsinki Finland in May 2015 While agile development has already become mainstream in industry this field is still constantly evolving and continues to spur an enormous interest both in industry and academia The XP conference series has always played and continues to play an important role in connecting the academic and practitioner communities providing a forum for both formal and informal sharing and development of ideas experiences and opinions The theme of XP 2015 Delivering Value Moving from Cyclic to Continuous Value Delivery reflects the modern trend towards organizations that are simultaneously very efficient and flexible in software development and delivery The 15 full and 7 short papers accepted for XP 2015 were selected from 44 submissions All of the submitted papers went through a rigorous peer review process Additionally 11 experience reports were selected from 45 proposals and in each case the authors were shepherded by an experienced researcher *Analytic Methods in Systems and Software Testing* Ron S. Kenett, Fabrizio Ruggeri, Frederick W. Faltin, 2018-09-04 A comprehensive treatment of systems and software testing using state of the art methods and tools This book provides valuable insights into state of the art software testing methods and explains with examples the statistical and analytic methods used in this field Numerous examples are used to provide understanding in applying these methods to real world problems Leading authorities in applied statistics computer science and software engineering present state of the art methods addressing challenges faced by practitioners and researchers involved in system and software testing Methods include machine learning Bayesian methods graphical models experimental design generalized regression and reliability modeling Analytic Methods in Systems and Software Testing presents its comprehensive collection of methods in four parts Part I Testing Concepts and Methods Part II Statistical Models Part III Testing Infrastructures and Part IV Testing Applications It seeks to maintain a focus on analytic methods while at the same time offering a contextual landscape of modern engineering in order to introduce related statistical and probabilistic models used in this domain This makes the book an incredibly useful tool offering interesting insights on challenges in the field for researchers and practitioners alike Compiles cutting edge methods and examples of analytical approaches to systems and software testing from leading authorities in applied statistics computer science and software engineering Combines methods and examples focused on the analytic aspects of systems and software testing Covers logistic regression machine learning Bayesian methods graphical models experimental design generalized regression and reliability models Written by leading researchers and practitioners in the field from diverse backgrounds including research business government and consulting Stimulates research at the theoretical and practical level Analytic Methods in Systems and Software Testing is an excellent advanced reference directed toward industrial and academic readers whose

work in systems and software development approaches or surpasses existing frontiers of testing and validation procedures It will also be valuable to post graduate students in computer science and mathematics

**Product-Focused Software Process Improvement** Xavier Franch,Tomi Männistö,Silverio Martínez-Fernández,2019-11-18 This book constitutes the refereed proceedings of the 20th International Conference on Product Focused Software Process Improvement PROFES 2019 held in Barcelona Spain in November 2019 The 24 revised full papers 4 industry papers and 11 short papers presented were carefully reviewed and selected from 104 submissions The papers cover a broad range of topics related to professional software development and process improvement driven by product and service quality needs They are organized in topical sections on testing software development technical debt estimations continuous delivery agile project management microservices and continuous experimentation This book also includes papers from the co located events 10 project papers 8 workshop papers and 4 tutorial summaries

**Distributed Computing and Artificial Intelligence, 13th International Conference** Sigeru Omatu,Ali Semalat,Grzegorz Bocewicz,Paweł Sitek,Izabela E. Nielsen,Julián A. García García,Javier Bajo,2016-05-31 The 13th International Symposium on Distributed Computing and Artificial Intelligence 2016 DCAI 2016 is a forum to present applications of innovative techniques for studying and solving complex problems The exchange of ideas between scientists and technicians from both the academic and industrial sector is essential to facilitate the development of systems that can meet the ever increasing demands of today s society The present edition brings together past experience current work and promising future trends associated with distributed computing artificial intelligence and their application in order to provide efficient solutions to real problems This symposium is organized by the University of Sevilla Spain Osaka Institute of Technology Japan and the Universiti Teknologi Malaysia Malaysia

**Ultimate Monorepo and Bazel for Building Apps at Scale: Level up Your Large-Scale Application Development With Monorepo and Bazel for Enhanced Productivity, Scalability, and Integration** Javier Antoniucci,2024-05-18 Unlock Next Level Scalable App Development with Monorepo and Bazel Key Features Unleash the transformative power of Monorepos with Bazel revolutionizing your development workflow Elevate your build system to unmatched levels of efficiency and reliability through comprehensive Bazel mastery Propel yourself into the future of software development by mastering Bazel and harnessing the potential of Monorepo architecture Optimize your builds for peak efficiency and unwavering reliability with expert insights and techniques in Bazel utilization Unlock the gateway to scalable applications by leveraging the dynamic synergy of Bazel and Monorepo for unparalleled success Book Description Ultimate Scalable Monorepo Apps with Bazel is the go to guide for developers and engineers looking to maximize the potential of Bazel within a monorepo setup It explores the intricacies of building large scale applications contrasting the monorepo approach with polyrepo setups and highlighting benefits like streamlined dependency management and improved collaboration Through practical examples and real world case studies you ll learn how to harness Bazel s features for faster build times and consistent results across environments

Structured to cover all aspects of Bazel and monorepo development from initial setup to advanced topics like custom rule creation and dependency management this book provides actionable insights to enhance your development workflow This guide equips you with the knowledge and skills to efficiently manage large codebases and contribute to more robust scalable and maintainable software projects By the end readers will be equipped to efficiently manage large codebases leverage Bazel s capabilities to speed up build and test processes and ultimately contribute to more robust scalable and maintainable software projects What you will learn Understand the fundamentals and importance of Bazel in modern development practices Dive into the essentials of setting up and configuring Bazel for your projects Explore the intricacies of defining build rules and optimizing configurations for efficient builds Learn strategies for designing and executing scalable and comprehensive tests within a monorepo environment Table of Contents1 Introduction 2 Getting Started with Bazel 3 Bazel Build Rules and Configuration 4 Testing Strategies in a Monorepo 5 Dependency Management and Versioning 6 Hello World Using Other Languages and Platforms 7 Streamlining Development Workflow 8 Structuring Monorepos for Success 9 Managing Large Codebases and Scale 10 Building and Deploying Services 11 Monitoring and Debugging Bazel 12 Advanced Bazel Concepts 13 Case Studies and Real World Examples 14 Future Trends and Considerations APPENDIX A Bazel Cheat Sheet APPENDIX B Additional Resources Index

### **Emerging Technologies in Data Mining and Information Security**

Paramartha Dutta,Abhishek Bhattacharya,Soumi Dutta,Wen-Cheng Lai,2022-09-29 This book features research papers presented at the International Conference on Emerging Technologies in Data Mining and Information Security IEMIS 2022 held at Institute of Engineering Management Kolkata India during February 23 25 2022 The book is organized in three volumes and includes high quality research work by academicians and industrial experts in the field of computing and communication including full length papers research in progress papers and case studies related to all the areas of data mining machine learning Internet of Things IoT and information security

*Software Quality. The Future of Systems- and Software Development* Dietmar Winkler,Stefan Biffl,Johannes Bergsmann,2015-12-10 This book constitutes the refereed proceedings of the scientific track of the 8th Software Quality Days Conference SWQD 2016 held in Vienna Austria in January 2016 The SWQD conference offers a range of comprehensive and valuable information by presenting new ideas from the latest research papers keynote speeches by renowned academics and industry leaders professional lectures exhibits and tutorials The five scientific full papers accepted for SWQD were each peer reviewed by three or more reviewers and selected out of 13 high quality submissions Further nine short papers were also presented and are included in this book In addition one keynote paper by Scott Ambler and Mark Lines is also included

Product-Focused Software Process Improvement Luca Ardito,Andreas Jedlitschka,Maurizio Morisio,Marco Torchiano,2021-11-23 This book constitutes the refereed proceedings of the 22nd International Conference on Product Focused Software Process Improvement PROFES 2021 held in Turin Italy in November 2021 Due to COVID 19 pandemic the conference was held as a hybrid event The 20 revised papers



including 14 full papers 3 short papers and 3 industry papers presented were carefully reviewed and selected from 48 submissions The papers cover a broad range of topics related to professional software development and process improvement driven by product and service quality needs They are organized in the following topical sections agile and migration requirements human factors and software quality

**Practices for Scaling Lean & Agile Development** Craig Larman,Bas Vodde,2010-01-26 Lean and Agile Development for Large Scale Products Key Practices for Sustainable Competitive Success Increasingly large product development organizations are turning to lean thinking agile principles and practices and large scale Scrum to sustainably and quickly deliver value and innovation Drawing on their long experience leading and guiding lean and agile adoptions for large multisite and offshore product development internationally recognized consultant and best selling author Craig Larman and former leader of the agile transformation at Nokia Networks Bas Vodde share the key action tools needed for success Coverage includes Frameworks for large scale Scrum for multihundred person product groups Testing and building quality in Product management and the end of the contract game between business and R D Envisioning a large release and planning for multiteam development Low quality legacy code why it s created and how to stop it Continuous integration in a large multisite context Agile architecting Multisite or offshore development Contracts and outsourced development In a competitive environment that demands ever faster cycle times and greater innovation the practices inspired by lean thinking and agile principles are ever more relevant Practices for Scaling Lean Agile Development will help people realize a lean enterprise and deliver on the significant benefits of agility In addition to the action tools in this text see the companion book Scaling Lean Agile Development Thinking and Organizational Tools for Large Scale Scrumfor complementary foundation tools

**Software Reuse for Dynamic Systems in the Cloud and Beyond** Ina Schaefer,Ioannis Stamelos,2014-12-22 This book constitutes the refereed proceedings of the 14th International Conference on Software Reuse for Dynamic Systems in the Cloud and Beyond ICSR 2015 held in Miami FL USA in January 2015 The 21 revised full papers presented together with 3 revised short papers were carefully reviewed and selected from 60 submissions The papers cover several software engineering areas where software reuse is important such as software product lines domain analysis open source components cloud quality

Intelligent Systems and Applications Kohei Arai,2022-08-30 This book is a remarkable collection of chapters covering a wide domain of topics related to artificial intelligence and its applications to the real world The conference attracted a total of 494 submissions from many academic pioneering researchers scientists industrial engineers and students from all around the world These submissions underwent a double blind peer reviewed process Of the total submissions 176 submissions have been selected to be included in these proceedings It is difficult to imagine how artificial intelligence has become an inseparable part of our life From mobile phones smart watches washing machines to smart homes smart cars and smart industries artificial intelligence has helped to revolutionize the whole globe As we witness exponential growth of computational intelligence in several directions and use of intelligent

systems in everyday applications this book is an ideal resource for reporting latest innovations and future of AI Distinguished researchers have made valuable studies to understand the various bottlenecks existing in different arenas and how they can be overcome with the use of intelligent systems This book also provides new directions and dimensions of future research work We hope that readers find the volume interesting and valuable Future-Proof Software-Systems Frank J. Furrer,2019-09-25 This book focuses on software architecture and the value of architecture in the development of long lived mission critical trustworthy software systems The author introduces and demonstrates the powerful strategy of Managed Evolution along with the engineering best practice known as Principle based Architecting The book examines in detail architecture principles for e g Business Value Changeability Resilience and Dependability The author argues that the software development community has a strong responsibility to produce and operate useful dependable and trustworthy software Software should at the same time provide business value and guarantee many quality of service properties including security safety performance and integrity As Dr Furrer states Producing dependable software is a balancing act between investing in the implementation of business functionality and investing in the quality of service properties of the software systems The book presents extensive coverage of such concepts as Principle Based Architecting Managed Evolution Strategy The Future Principles for Business Value Legacy Software Modernization Migration Architecture Principles for Changeability Architecture Principles for Resilience Architecture Principles for Dependability The text is supplemented with numerous figures tables examples and illustrative quotations Future Proof Software Systems provides a set of good engineering practices devised for integration into most software development processes dedicated to the creation of software systems that incorporate Managed Evolution

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