

# Continuous Delivery Reliable Software Releases Through Build Test And Deployment Automation

Continuous DeliveryContinuous DeliveryContinuous DeliveryContinuous DeploymentFlexible,  
Reliable SoftwareReliable Software Technologies - Ada-Europe 2001Improving Product Reliability  
and Software QualityReliable Software Technologies - Ada-Europe '99Continuous Integration,  
Delivery, and DeploymentDevops in PracticeReliable Software Technologies, Ada-Europe  
...Repeatability, Reliability, and Scalability through GitOpsReliable Distributed System  
SoftwareDeveloping Assessment Models for Software Reliability at Late Design PhaseProduction of  
Reliable Flight-crucial SoftwareSoftware EngineeringSoftware ReliabilityProduction of Reliable  
Flight-crucial SoftwareNLR-TR ... USoftware Engineering Jez Humble Dave Farley Jez Humble  
VALENTINA. SERVILE Henrik B. Christensen Dirk Craeynest Mark A. Levin Michael Gonzalez  
Harbour Sander Rossel Danilo Sato Bryan Feuling John A. Stankovic Bhagyashri Deshpande J. R.  
Dunham Institute of Electrical and Electronics Engineers Infotech Janet Rose Dunham Shari  
Lawrence Pfleeger

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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

the step by step guide to going live with new software releases faster reducing risk and delivering more value sooner fast simple repeatable techniques for deploying working code to production in hours or days not months crafting custom processes that get developers from idea to value faster than ever best practices for everything from source code control to dependency management and in production tracing common obstacles to rapid release and pragmatic solutions in too many organizations build testing and deployment processes can take six months or more that's simply far too long for today's businesses but it doesn't have to be that way it's possible to deploy working code to production in hours or days after development work is complete and go live presents comprehensive processes and techniques for doing so written by two of the world's most experienced software project leaders this book demonstrates how to dramatically increase speed while reducing risk and improving code quality at the same time the authors cover all facets of build testing and deployment including configuration management source code control release planning auditing compliance integration build automation and more they introduce a wide range of advanced techniques including inproduction monitoring and tracing dependency management and the effective use of virtualization for each area they explain the issues show how to mitigate the risks and present best practices throughout go live focuses on powerful opportunities for individual improvement clearly and simply explaining skills and techniques so they can be used every day on real projects with this book's help any development organization can move from idea to release faster and deliver far more value far more rapidly

methods of delivering software are constantly evolving in order to increase speed to market without sacrificing reliability and stability mastering development end to end from version control to production and building production ready code is now more important than ever continuous deployment takes it one step further this method for delivering software automates the final step to production and enables faster feedback and safer releases based on years of work with medium to large organizations at thoughtworks author valentina servile explains how to perform safe and reliable deployments with no manual gate to production you ll learn a framework to perform incremental safe releases during everyday development work structured exclusively around the challenges of continuous deployment in nontrivial distributed systems complete with interviews and case studies from fellow industry professionals close the feedback loop and leverage the production environment to manage your end to end development lifecycle efficiently this book helps you take observability performance test automation and security into account when splitting work into increments create a daily development plan that takes immediate deployments to production into account deploy work in progress to production incrementally without causing regressions use patterns to refactor live functionality and alter persistence layers test and release features in production using different feature toggle configurations

flexible reliable software using patterns and agile development guides students through the software development process by describing practical stories explaining the design and programming process in detail and using projects as a learning context the text helps readers understand why a given technique is required and why technique

this book constitutes the refereed proceedings of the 6th international conference on reliable software technologies ada europe 2001 held in leuven belgium in may 2001 the 27 revised full papers presented together with five invited papers were carefully reviewed and selected from a large number of submissions the papers are organized in topical sections on program analysis distributed systems real time systems language and patterns dependable systems apis and components real time kernels standard formats uml and xml and system evolution

the authoritative guide to the effective design and production of reliable technology products revised and updated while most manufacturers have mastered the process of producing quality products product reliability software quality and software security has lagged behind the revised second edition of improving product reliability and software quality offers a comprehensive and detailed guide to implementing a hardware reliability and software quality process for technology products the authors noted experts in the field provide useful tools forms and spreadsheets for executing an effective product reliability and software quality development process and explore proven software quality and product reliability concepts the authors discuss why so many companies

fail after attempting to implement or improve their product reliability and software quality program they outline the critical steps for implementing a successful program success hinges on establishing a reliability lab hiring the right people and implementing a reliability and software quality process that does the right things well and works well together designed to be accessible the book contains a decision matrix for small medium and large companies throughout the book the authors describe the hardware reliability and software quality process as well as the tools and techniques needed for putting it in place the concepts ideas and material presented are appropriate for any organization this updated second edition contains new chapters on software tools software quality process and software security expands the fmea section to include software fault trees and software fmeas includes two new reliability tools to accelerate design maturity and reduce the risk of premature wearout contains new material on preventative maintenance predictive maintenance and prognostics and health management phm to better manage repair cost and unscheduled downtime presents updated information on reliability modeling and hiring reliability and software engineers includes a comprehensive review of the reliability process from a multi disciplinary viewpoint including new material on uprating and counterfeit components discusses aspects of competition key quality and reliability concepts and presents the tools for implementation written for engineers managers and consultants lacking a background in product reliability and software quality theory and statistics the updated second edition of improving product reliability and software quality explores all phases of the product life cycle

the fourth international conference on reliable software technologies ada europe 99 took place in santander spain from june 7 to 11 1999 it was sponsored by ada europe the european federation of national ada societies in cooperation with acm sigada and ada spain and it was organized by members of the university of cantabria and the technical university of madrid in spain this was the 19th consecutive year of ada europe conferences which have always been the main ada events in europe with their counterparts being the acm sigada conferences in the usa formerly tri ada the conference is not just devoted to the ada language but rather to the more general area of reliable software technologies in this sense there are papers on formal methods testing software architectures and design software engineering tools etc we believe that the role of reliable software technologies is becoming increasingly important as computer applications control more and more of our everyday systems the goal of our conference is to contribute to advancing the state of the art of all the technologies that help us in achieving better and more reliable software at a lower overall cost

getting started with the processes and the tools to continuously deliver high quality software about this book incorporate popular development practices to prevent messy code automate your build integration release and deployment processes with jenkins git and gulp and learn how continuous

integration ci can save you time and money gain an end to end overview of continuous integration using different languages javascript and c and tools gulp and jenkins who this book is for this book is for developers who want to understand and implement continuous integration and delivery in their daily work a basic knowledge of at least javascript and html css is required knowing c and sql will come in handy most programmers who have programmed in a compiled c like language will be able to follow along what you will learn get to know all the aspects of continuous integration deployment and delivery find out how git can be used in a ci environment set up browser tests using karma and selenium and unit tests using jasmine use node js npm and gulp to automate tasks such as linting testing and minification explore different jenkins jobs to integrate with node js and c projects perform continuous delivery and deployment using jenkins test and deliver a web api in detail the challenge faced by many teams while implementing continuous deployment is that it requires the use of many tools and processes that all work together learning and implementing all these tools correctly takes a lot of time and effort leading people to wonder whether it s really worth it this book sets up a project to show you the different steps processes and tools in continuous deployment and the actual problems they solve we start by introducing continuous integration ci deployment and delivery as well as providing an overview of the tools used in ci you ll then create a web app and see how git can be used in a ci environment moving on you ll explore unit testing using jasmine and browser testing using karma and selenium for your app you ll also find out how to automate tasks using gulp and jenkins next you ll get acquainted with database integration for different platforms such as mongodb and postgresql finally you ll set up different jenkins jobs to integrate with node js and c projects and jenkins pipelines to make branching easier by the end of the book you ll have implemented continuous delivery and deployment from scratch style and approach this practical book takes a step by step approach to explaining all the concepts of continuous integration and delivery and how it can help you deliver a high quality product

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

learn how to best use gitops to automate manual tasks in the continuous delivery and deployment process key features explore the different gitops schools of thought and understand which gitops

practices will work for you and your team get up and running with the fundamentals of gitops implementation understand how to effectively automate the deployment and delivery process book description the world of software delivery and deployment has come a long way in the last few decades from waterfall methods to agile practices every company that develops its own software has to overcome various challenges in delivery and deployment to meet customer and market demands this book will guide you through common industry practices for software delivery and deployment throughout the book you ll follow the journey of a devops team that matures their software release process from quarterly deployments to continuous delivery using gitops with the help of hands on tutorials projects and self assessment questions you ll build your knowledge of gitops basics different types of gitops practices and how to decide which gitops practice is the best for your company as you progress you ll cover everything from building declarative language files to the pitfalls in performing continuous deployment with gitops by the end of this book you ll be well versed with the fundamentals of delivery and deployment the different schools of gitops and how to best leverage gitops in your teams what you will learn explore a variety of common industry tools for gitops understand continuous deployment continuous delivery and why they are important gain a practical understanding of using gitops as an engineering organization become well versed with using gitops and kubernetes together leverage git events for automated deployments implement gitops best practices and find out how to avoid gitops pitfalls who this book is for this book is for engineering leaders and anyone working in software engineering devops sre build release or cloud automation teams a basic understanding of the devops software development life cycle sdhc will help you to get the most out of this book

doctoral thesis dissertation from the year 2021 in the subject computer science software savitribai phule pune university formerly university of pune department of computer science course ph d language english abstract in this thesis report the pertinence of the models neural network model and hellinger net model for better software reliability prediction considering the parameters and software metrics affecting the software design in a real environment is described and a method of software defect detection and software reliability assessment using nn model and intelligent water drop iwd technique is presented built on a neural network nn two models are developed which predicts the software reliability in a more accurate manner there are two kinds of hybrid models developed one uses iwd with nn and another is iwd with spiking neural network snn for both the modelling feature selection technique and learning algorithm is implemented and the data representation methods and some metrics associated with software reliability models are discussed various datasets containing metrics values with software failures are applied to the proposed models these datasets are acquired from variety of software projects

the computer society of the ieee formed a committee to codify these norms of professional software

engineering practices into standards this volume presents 22 software engineering standards approved by the consensus process

this introduction to software engineering and practice addresses both procedural and object oriented development is thoroughly updated to reflect significant changes in software engineering including modeling and agile methods emphasizes essential role of modeling design in software engineering applies concepts consistently to two common examples a typical information system and a real time system combines theory with real practical applications by providing an abundance of case studies and examples from the current literature a useful reference for software engineers

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