

Continuous Delivery Reliable Software Releases Through Build Test And Deployment Automation

Continuous DeliveryContinuous DeliveryContinuous Delivery for Mobile with fastlaneContinuous
Integration, Delivery, and DeploymentVirtualization with IBM Workload Deployer: Designing and
Deploying Virtual SystemsAdvanced Cloud Automation Frameworks and API Strategies Practical
Solutions for Dynamic Cloud EcosystemsThe Shortcut Guide to IT Service Management and
AutomationA Formal Approach to Distributed Application Synthesis and Deployment
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Navin Sabharwal

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Solutions for Dynamic Cloud Ecosystems The Shortcut Guide to IT Service Management and
Automation A Formal Approach to Distributed Application Synthesis and Deployment Automation
Repeatability, Reliability, and Scalability through GitOps Ultimate AWS CDK for Infrastructure

Automation Jenkins, Docker, and Kubernetes: Mastering DevOps Automation Expert Configuration
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Feuling Anish Kumar Peter Jones Adam Jones Robin Burgess-Limerick Nikit Swaraj Richard Puckett
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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

learn continuous deployment and automation with code signing continuous testing building deploying and releasing of your app key features a practical guide on automating your mobile development pipeline with fastlane jenkins and slack build test run and deploy your mobile application release with this end to end guide implement continuous integration delivery and deployment practices to optimize your application development workflow for faster and efficient release builds book description competitive mobile apps depend strongly on the development team s ability to deliver successful releases consistently and often although continuous integration took a more mainstream priority among the development industry companies are starting to realize the importance of continuity beyond integration and testing this book starts off with a brief introduction to fastlane a robust command line tool that enables ios and android developers to automate their releasing workflow the book then explores and guides you through all of its features and utilities it provides the reader a comprehensive understanding of the tool and how to implement them themes include setting up and managing your certificates and provisioning and push notification profiles automating the creation of apps and managing the app metadata on itunes connect and the apple developer portal and building distributing and publishing your apps to the app store you will also learn how to automate the generation of localized screenshots and mesh your continuous delivery workflow into a continuous integration workflow for a more robust setup by the end of the book you will gain substantial knowledge on delivering bug free developer independent and stable application release cycle what you will learn harness the fastlane tools for the continuous deployment strategy integrate continuous deployment with existing continuous integration automate upload of screenshots across all device screen sizes manage push notifications provisioning profiles and code signing certificates orchestrate automated build and deployments of new versions of your app

regulate your testflight users and on board new testers who this book is for this book is intended for mobile developers who are keen on incorporating continuous integration and deployment practices in their workflow

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

the ibm workload deployer appliance provides a solid foundation for private cloud strategy enabling the rapid adoption and deployment of both infrastructure and platform as a service offering the ibm workload deployer uses the concept of patterns to describe the logical configuration of both the physical and virtual assets that comprise a particular solution the use of patterns allows an organization to construct an individual element or integrated solution one time and then dispense the final product on demand virtual system patterns are comprised of an operating system and ibm software solutions such as websphere application server and websphere virtual enterprise virtual application patterns are constructed to support a single application workload this book focuses on the virtual systems capability of the ibm workload deployer and specifically addresses the process of building customized virtual systems that go beyond the standard capabilities of the virtual images available with the product the book starts by describing private clouds and how they can benefit your business it introduces the ibm workload deployer and its capabilities and then talks about the various tools that you can use to enhance the process of planning customizing and automating virtual system deployment a sample is used to illustrate how the standard virtual images that are available for the ibm workload deployer can be customized for a robust solution that includes dynamic workload management high performing data caching and monitoring of system state the book then discusses how you can use the ibm workload deployer to facilitate the progression of an application through its lifecycle finally an overview is provided of the troubleshooting capabilities that come with the ibm workload deployer

in today s fast paced innovation driven world the cloud has become the foundation for digital transformation it powers everything from enterprise applications to global e commerce and cutting edge ai systems but as organizations scale and diversify their cloud infrastructures managing these

dynamic ecosystems becomes increasingly complex automation and apis have emerged as indispensable tools for simplifying operations optimizing resources and enabling agility advanced cloud automation frameworks and api strategies is a guide for architects developers and cloud professionals who are ready to take their skills to the next level this book goes beyond the basics to explore advanced techniques for designing implementing and managing automated cloud environments it provides practical solutions that address the challenges of modern cloud ecosystems from multi cloud orchestration to api first strategies that drive innovation and integration in these pages you ll learn how to build robust automation frameworks tailored to diverse use cases and environments you ll explore best practices for creating scalable secure apis and discover strategies for seamless integration across platforms each chapter is packed with actionable insights real world examples and detailed walkthroughs designed to help you solve complex challenges with confidence the emphasis throughout this book is on practicality and adaptability cloud technologies evolve rapidly and the ability to design flexible future ready solutions is a critical skill for any cloud professional this book not only equips you with technical knowledge but also emphasizes the principles of good design efficient workflows and sustainable architectures whether you re building serverless applications orchestrating containerized workloads or creating apis that power enterprise systems this book provides the guidance you need to excel it s for those who want to lead in the cloud space empowering organizations to innovate faster reduce operational overhead and create resilient digital ecosystems the future of cloud computing belongs to those who can automate intelligently integrate seamlessly and innovate boldly my hope is that this book helps you achieve these goals giving you the tools and insights needed to thrive in the ever changing landscape of cloud technologies let s dive into the world of advanced cloud automation frameworks and api strategies where innovation meets opportunity authors

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 will 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 will 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 will cover everything from building declarative language files to the pitfalls in performing continuous deployment with gitops by the end of this book you will 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

transform iac with aws cdk to simplify secure and scale your cloud key features build scalable cloud infrastructures with aws cdk from basics to mastery simplify and optimize infrastructure as code with aws cdk tools learn aws cdk hands on with tutorials examples and proven practices book description the aws cloud development kit cdk transforms infrastructure automation empowering developers to simplify optimize and scale cloud operations as cloud infrastructure plays a vital role in modern applications mastering aws cdk is a critical skill for developers and devops professionals

ultimate aws cdk for infrastructure automation equips you with practical skills to harness its full potential this book introduces infrastructure as code iac principles and aws cdk fundamentals guiding you through core concepts like stacks constructs environments and resources you ll learn to build multi stack projects configure ci cd pipelines and apply best practices for modular and reusable code each chapter delivers practical insights and expert tips from setup to advanced topics like custom resources and performance tuning key takeaways include mastering cdk constructs managing cross stack resources creating ci cd pipelines and refining testing and troubleshooting skills by the end of this book you ll have the expertise to design deploy and manage scalable automated cloud infrastructures whether you re new to aws cdk or looking to refine your skills this book provides a roadmap to mastering infrastructure automation and driving cloud innovation what you will learn design secure scalable cloud architectures using aws cdk implement infrastructure as code iac with typescript for aws build deploy and manage multi stack cloud projects efficiently integrate ci cd pipelines for automated cloud infrastructure provisioning optimize cloud deployments for cost performance and security debug test and enhance cdk apps using industry best practices table of contents1 introduction to aws cdk and devops automation2 getting started with aws cdk3 key concepts of cdk4 building a multi stack cdk project5 orchestrating cdk pipelines6 securing your cdk applications7 testing and debugging cdk applications8 advanced constructs and design patterns9 best practices and expert techniques10 real world case studies and examples

jenkins docker and kubernetes mastering devops automation is a comprehensive guide tailored for professionals eager to master the intricacies of automation within the devops ecosystem this indispensable resource meticulously delves into the integration and effective utilization of jenkins docker and kubernetes the leading trio at the heart of the devops transformation through a focus on practical applications readers will navigate the journey of installing configuring and optimizing these tools to design robust ci cd pipelines streamline software development processes and deploy applications with unparalleled precision and efficiency from the basics of containerization to managing containers at scale and from securing ci cd pipelines to implementing sophisticated

deployment strategies this book covers it all whether you're a software developer, IT professional, or dedicated DevOps practitioner. Jenkins, Docker, and Kubernetes: Mastering DevOps Automation empowers you to enhance your skills, ensuring seamless, high-quality software delivery in today's fast-paced digital environment. Harness the power of automation and transform your development workflow with this essential guide.

Expert Configuration Automation with Chef: A Detailed Roadmap for Mastery is the definitive resource for IT professionals seeking to revolutionize their infrastructure management with cutting-edge automation. Positioned at the forefront of the DevOps movement, this book delves deep into the sophisticated world of configuration automation with Chef, offering a comprehensive exploration of its core principles, functionalities, and advanced capabilities. From the foundational steps of installing and configuring Chef environments to mastering the art of cookbook development and attribute management, this roadmap ensures a thorough understanding of every facet of Chef's ecosystem. The guide meticulously builds upon each chapter, empowering readers to effectively utilize Chef resources, recipes, roles, and environments. Advanced discussions venture into custom resources, libraries, and Ohai plugins, enabling tailored solutions to meet specific operational demands. A strong emphasis on testing guarantees the creation of robust, dependable cookbooks, a critical requirement for contemporary IT infrastructures. Perfect for DevOps engineers, system administrators, software developers, and IT specialists, this book serves as both a strategic tool and an inspirational guide for automating and optimizing infrastructure. Whether you're setting up Chef for the first time, enhancing your automation strategies, or delving into advanced customizations, this book is your trusted companion on the path to transformation through a blend of theoretical insights and practical scenarios. It offers a hands-on learning experience that prepares you to thrive in the dynamic realm of configuration automation. Expert Configuration Automation with Chef is not merely a manual; it's a transformative journey leading you toward innovating and excelling in infrastructure management. Embrace Chef's potential to create a seamless, scalable, and self-healing infrastructure and elevate your automation expertise with this essential roadmap.

human systems integration for mining automation is the professional's guide to understanding the issues, approaches, and pitfalls associated with mining automation from a human perspective. This book delves into a timely and fast-developing issue in mining and the wider minerals industry: the design and deployment of automation. The book approaches this from a human systems integration standpoint in which the technical and human-related aspects are jointly considered as part of an integrated automated mining system. This accessible and readable title offers a wider human systems integration framework that can be applied to mining projects. It is based on an established framework that has been developed and used successfully in other work. The framework is backed up with information obtained from mines in Australia, the USA, Canada, Sweden, and Chile, and original equipment manufacturers such as Caterpillar, Komatsu, Sandvik, and Epiroc. Every reader of this book will recognise the essential benefits of human systems integration for mining automation. This book will be an ideal read for industry professionals including systems engineers, safety engineers, mining engineers, human factors engineers, and engineers working on developing and deploying automation in mining and related industries including rail, road transport, and process control. It will also be of interest to students, researchers, and academics in related fields.

Automate release processes, deployment, and continuous integration of your application as well as infrastructure automation with the powerful services offered by AWS. About this book: Accelerate your infrastructure's productivity by implementing a continuous delivery pipeline within your environment. Leverage AWS services and Jenkins 2.0 to perform complete application deployments on Linux servers. This recipe-based guide that will help you minimize application deployment downtime. Who this book is for: This book is for developers and system administrators who are responsible for hosting their application and managing instances in AWS. It's also ideal for DevOps engineers looking to provide continuous integration, deployment, and delivery. A basic understanding of AWS, Jenkins, and some scripting knowledge is needed. What you will learn: Build a sample Maven and Node.js application using CodeBuild. Deploy the application in EC2, Auto Scaling, and see how CodePipeline helps you integrate AWS services. Build a highly scalable and fault-tolerant CI/CD pipeline. Achieve the

ci cd of a microservice architecture application in aws ecs using codepipeline codebuild ecr and cloudformation automate the provisioning of your infrastructure using cloudformation and ansible automate daily tasks and audit compliance using aws lambda deploy microservices applications on kubernetes using jenkins pipeline 2 0 in detail aws codedeploy aws codebuild and codepipeline are scalable services offered by aws that automate an application s build and deployment pipeline in order to deliver tremendous speed and agility every organization is moving toward automating an entire application pipeline this book will cover all the aws services required to automate your deployment to your instances you ll begin by setting up and using one of the aws services for automation codecommit next you ll learn how to build a sample maven and nodejs application using codebuild after you ve built the application you ll see how to use codedeploy to deploy the application in ec2 autoscaling you ll also build a highly scalable and fault tolerant continuous integration ci continuous deployment cd pipeline using some easy to follow recipes following this you ll achieve ci cd for microservices application and reduce the risk within your software development lifecycle you ll also learn to set up an infrastructure using cloudformation template and ansible and see how to automate aws resources using aws lambda finally you ll learn to automate instances in aws and automate the deployment lifecycle of applications by the end of this book you ll be able to minimize application downtime and implement ci cd gaining total control over your software development lifecycle style and approach this book takes a how to do it approach providing with easy solutions to automate common maintenance and deployment tasks

designed to provide in depth technical information for system administrators system architects system engineers and network administrators windows nt automated deployment and customization covers keys and values for developing nt answer files security risks and how to minimize them through registry edits ntfs system policies and user permission changes reference information on native nt tools useful registry edits nt s default services third party tools and cloning technologies and case studies that demonstrate how to use these techniques in the real world book jacket title summary field provided by blackwell north america inc all rights reserved

the approach of traditional deployment automation works for detail complexity but is focused on a systematic approach rather than an understanding of the nature of systems themselves what approach will permit your organization to deal with the kind of unpredictable emergent behaviors that dynamic complexity can introduce how do you deal with deployment automation changes does the deployment automation performance meet the customer s requirements what are the top 3 things at the forefront of your deployment automation agendas for the next 3 years what are the potential basics of deployment automation fraud 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 deployment automation investments work better this deployment automation all inclusive self assessment enables you to be that person all the tools you need to an in depth deployment automation self assessment featuring 675 new and updated case based questions organized into seven core areas of process design this self assessment will help you identify areas in which deployment automation improvements can be made in using the questions you will be better able to diagnose deployment 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 deployment automation and process design strategies into practice according to best practice guidelines using a self assessment tool known as the deployment automation scorecard you will develop a clear picture of which deployment automation areas need attention your purchase includes access details to the deployment automation self assessment dashboard download which gives you your dynamically prioritized

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build package and deploy software projects developed with any language targeting any platform using azure pipelines the book starts with an overview of ci cd and the need for software delivery automation it further delves into the basic concepts of azure pipelines followed by a hands on guide to setting up agents on all platforms enabling software development in any language moving forward you will learn to set up a pipeline using the classic visual editor using powershell scripts a rest api building edit history retention and much more you ll work with artifact feeds to store deployment packages and consume them in a build as part of the discussion you ll see the implementation and usage of yaml yet another markup language build pipelines you will then create azure release pipelines in devops and develop extensions for azure pipelines finally you will learn various strategies and patterns for developing pipelines and go through some sample lessons on building and deploying pipelines after reading hands on azure pipelines you will be able to combine ci and cd to constantly and consistently test and build your code and ship it to any target what you will learn work with azure build and release pipelines extend the capabilities and features of azure pipelines understand build package and deployment strategies and versioning and patterns with azure pipelines create infrastructure and deployment that targets commonly used azure platform services build and deploy mobile applications use quick start azure devops projects who this book is for software developers and test automation engineers who are involved in the software delivery process

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

design develop and solve real world automation and orchestration problems by unlocking the automation capabilities of ansible key features tackle complex automation challenges with the newly added features in ansible 2.7 book description automation is essential for success in the modern world of devops ansible provides a simple yet powerful automation engine for tackling complex automation challenges this book will take you on a journey that will help you exploit the latest version's advanced features to help you increase efficiency and accomplish complex orchestrations this book will help you understand how ansible 2.7 works at a fundamental level and will also teach you to leverage its advanced capabilities throughout this book you will learn how to encrypt ansible content at rest and decrypt data at runtime next this book will act as an ideal resource to help you master the advanced features and capabilities required to tackle complex automation challenges later it will walk you through workflows use cases orchestrations troubleshooting and ansible extensions lastly you will examine and debug ansible operations helping you to understand and resolve issues by the end of the book you will be able to unlock the true power of the ansible automation engine and tackle complex real world actions with ease what you will learn gain an in depth understanding of how ansible works under the hood fully automate ansible playbook executions with encrypted data access and manipulate variable data within playbooks use blocks to perform failure recovery or cleanup explore the playbook debugger and the ansible

consoletroubleshoot unexpected behavior effectivelywork with cloud infrastructure providers and container systemsdevelop custom modules plugins and dynamic inventory sourceswho this book is for this book is for ansible developers and operators who have an understanding of its core elements and applications but are now looking to enhance their skills in applying automation using ansible

discover the methodologies and best practices for getting started with google cloud automation services including google cloud deployment manager spinnaker tekton and jenkins to automate deployment of cloud infrastructure and applications the book begins with an introduction to google cloud services and takes you through the various platforms available to do automation on the gcp platform you will do hands on exercises and see best practices for using google cloud deployment manager spinnaker tekton and jenkins you ll cover the automation aspects of the google cloud platform holistically using native and upcoming open source technologies the authors cover the entire spectrum of automation from cloud infrastructure to application deployment and tie everything together in a release pipeline using jenkins pro google cloud automation provides in depth guidance on automation and deployment of microservices based applications running on the kubernetes platform it provides sample code and best practice guidance for developers and architects for their automation projects on the google cloud platform this book is a good starting point for developers architects and administrators who want to learn about google cloud automation what you will learn gain the fundamentals of google s automation enabling services see an architecture overview for google cloud deployment manager spinnaker tekton and jenkins implement automation for infrastructure and application use cases automate microservices based applications running on gke enable google cloud deployment manager spinnaker tekton and jenkins who this book is for developers architects and administrators who want to learn about google cloud automation

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Introduction

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