

# Circleci

## Aditya Pratap Bhuyan

**Hands-On Continuous Integration and Delivery** Jean-Marcel Belmont, 2018-08-29 Understand various tools and practices for building a continuous integration and delivery pipeline effectively Key Features Get up and running with the patterns of continuous integration Learn Jenkins UI for developing plugins and build an effective Jenkins pipeline Automate CI/CD with command-line tools and scripts Book Description Hands-On Continuous Integration and Delivery starts with the fundamentals of continuous integration (CI) and continuous delivery (CD) and where it fits in the DevOps ecosystem. You will explore the importance of stakeholder collaboration as part of CI/CD. As you make your way through the chapters, you will get to grips with Jenkins UI, and learn to install Jenkins on different platforms, add plugins, and write freestyle scripts. Next, you will gain hands-on experience of developing plugins with Jenkins UI, building the Jenkins 2.0 pipeline, and performing Docker integration. In the concluding chapters, you will install Travis CI and Circle CI and carry out scripting, logging, and debugging, helping you to acquire a broad knowledge of CI/CD with Travis CI and CircleCI. By the end of this book, you will have a detailed understanding of best practices for CI/CD systems and be able to implement them with confidence. What you will learn Install Jenkins on multiple operating systems Work with Jenkins freestyle scripts, pipeline syntax, and methodology Explore Travis CI build life cycle events and multiple build languages Master the Travis CI CLI (command-line interface) and automate tasks with the CLI Use CircleCI CLI jobs and work with pipelines Automate tasks using CircleCI CLI and learn to debug and troubleshoot Learn open source tooling such as Git and GitHub Install Docker and learn concepts in shell scripting Who this book is for Hands-On Continuous Integration and Delivery is for system administrators, DevOps engineers, and build and release engineers who want to understand the concept of CI and gain hands-on experience working with prominent tools in the CI ecosystem. Basic knowledge of software delivery is an added advantage.

**DevSecOps** Aditya Pratap Bhuyan, 2024-07-21 Are you struggling to balance the need for secure software with the demands of fast-paced development? In today's competitive landscape, delivering secure software at speed is no longer an option - it's a necessity. This book, DevSecOps: Delivering Secure Software at Speed, provides a comprehensive guide for cloud practitioners, developers, and security professionals looking to bridge the gap between development and security. Drawing on the author's extensive experience in cloud migration, microservices architecture, and DevSecOps principles, this book equips you with the knowledge and tools needed to build secure and agile software applications. You'll delve into the

core principles of DevSecOps, including: Shifting Left Security: Integrate security considerations into the early stages of development to identify and address vulnerabilities proactively. Automating Security Processes: Leverage automation tools for security testing, vulnerability management, and configuration management to streamline the development lifecycle. Building a Collaborative Culture: Fostering open communication and collaboration between development, security, and operations teams to ensure a shared responsibility for security. This book goes beyond theory, offering practical guidance for: Securing Microservices Architectures: Explore best practices for securing microservices applications, including containerization, API security, and distributed tracing. Leveraging Cloud Security Features: Harness the built-in security features offered by leading cloud platforms like AWS, GCP, and Azure. Emerging Trends in DevSecOps: Stay ahead of the curve by exploring cutting-edge trends like AI and machine learning for security, blockchain for secure software supply chains, and the future of DevSecOps in the cloud-native landscape. With a focus on both security and agility, DevSecOps: Delivering Secure Software at Speed empowers you to: Reduce Security Risks: Proactively identify and remediate vulnerabilities, minimizing the risk of security breaches. Deliver Features Faster: Streamlined DevSecOps processes allow development teams to innovate and deliver features at a rapid pace. Build Trust with Users: Delivering secure software fosters trust and confidence with users, promoting long-term product success. Whether you're a seasoned developer or just starting your journey with DevSecOps, this book equips you with the knowledge and tools needed to build secure and scalable software applications that meet the demands of the modern software development landscape.

**Generic Pipelines Using Docker** Brandon Atkinson, Dallas Edwards, 2018-12-19 Create generic pipelines to reduce your overall DevOps workload and allow your team to deliver faster. This book helps you get up to speed on the pros and cons of generic pipeline methodology, and learn to combine shell scripts and Docker to build generic pipelines. In today's world of micro-services and agile practices, DevOps teams need to move as fast as feature teams. This can be extremely challenging if you're creating multiple pipelines per application or tech stack. What if your feature teams could utilize a generic pipeline that could build, test, and deploy any application, regardless of tech stack? What if that pipeline was also cloud and platform agnostic? Too good to be true? Well think again! Generic Pipelines Using Docker explores the principles and implementations that allow you to do just that. You will learn from real-world examples and reusable code. After reading this book you will have the knowledge to build generic pipelines that any team can use. What You'll Learn Explore the pros and cons of generic pipeline methodology Combine shell scripts and Docker to build a generic pipeline Implement a pipeline across CI/CD platforms Build a pipeline that lends itself well to both centralized and federated DevOps teams Construct a modular pipeline with components that can be added, removed, or replaced as needed Who This Book Is For Professionals who use DevOps or are part of a DevOps team, and are seeking ways to streamline their pipelines and drive more deployments while using less code

**Continuous Integration and Delivery with Test-driven Development** Amit Bhanushali, Alekhya Achanta, Beena Bhanushali, 2024-03-19 Building tomorrow, today: Seamless integration, continuous deliver KEY FEATURES ● Step-by-step guidance to construct automated software and data CI/CD pipelines. ● Real-world case studies demonstrating CI/CD best practices across diverse organizations and development environments. ● Actionable frameworks to instill an organizational culture of collaboration, quality, and rapid iteration grounded in TDD values. DESCRIPTION As software complexity grows, quality and delivery speed increasingly rely on automated pipelines. This practical guide equips readers to construct robust CI/CD workflows that boost productivity and reliability. Step-by-step walkthroughs detail the technical implementation of continuous practices, while real-world case studies showcase solutions tailored for diverse systems and organizational needs. Master CI/CD, crucial for modern software development, with this book. It compares traditional versus test-driven development, stressing testing's importance. In this book, we will explore CI/CD's principles, benefits, and DevOps integration. We will build robust pipelines covering containerization, version control, and infrastructure as code. Through this book, you will learn about effective CD with monitoring, security, and release management, you will learn how to optimize CI/CD for different scenarios and applications, emphasizing collaboration and automation for success. With actionable best practices grounded in TDD principles, this book teaches how to leverage automated processes to cultivate shared ownership, design simplicity, comprehensive testing, and ultimately deliver exceptional business value. WHAT YOU WILL LEARN ● Construct smooth automated CI/CD pipelines tailored for complex systems. ● Master implementation strategies for diverse development environments. ● Design comprehensive test suites leveraging leading tools and frameworks. ● Instill a collaborative culture grounded in TDD values for ownership and simplicity. ● Optimize release processes for efficiency, quality, and business alignment. WHO THIS BOOK IS FOR This book is ideal for software engineers, developers, testers, and technical leads seeking to improve their CI/CD proficiency. Whether you are starting to explore the tool or looking to deepen your understanding, this book is a valuable resource for anyone eager to learn and master the technology. TABLE OF CONTENTS 1. Adopting a Test-driven Development Mindset 2. Understanding CI/CD Concepts 3. Building the CI/CD Pipeline 4. Ensuring Effective CD 5. Optimizing CI/CD Practices 6. Specialized CI/CD Applications 7. Model Operations: DevOps Pipeline Case Studies 8. Data CI/CD: Emerging Trends and Roles

**Mastering Cloud Native** Aditya Pratap Bhuyan, 2024-07-26 Mastering Cloud Native: A Comprehensive Guide to Containers, DevOps, CI/CD, and Microservices is your essential companion for navigating the transformative world of Cloud Native computing. Designed for both beginners and experienced professionals, this comprehensive guide provides a deep dive into the core principles and practices that define modern software development and deployment. In an era where agility, scalability, and resilience are paramount, Cloud Native computing stands at the forefront of technological innovation. This book explores the revolutionary concepts that drive Cloud Native, offering practical insights and detailed explanations to

help you master this dynamic field. The journey begins with an Introduction to Cloud Native, where you'll trace the evolution of cloud computing and understand the myriad benefits of adopting a Cloud Native architecture. This foundational knowledge sets the stage for deeper explorations into the key components of Cloud Native environments. Containers, the building blocks of Cloud Native applications, are covered extensively in Understanding Containers. You'll learn about Docker and Kubernetes, the leading technologies in containerization, and discover best practices for managing and securing your containerized applications. The DevOps in the Cloud Native World chapter delves into the cultural and technical aspects of DevOps, emphasizing collaboration, automation, and continuous improvement. You'll gain insights into essential DevOps practices and tools, illustrated through real-world case studies of successful implementations. Continuous Integration and Continuous Deployment (CI/CD) are crucial for rapid and reliable software delivery. In the CI/CD chapter, you'll explore the principles and setup of CI/CD pipelines, popular tools, and solutions to common challenges. This knowledge will empower you to streamline your development processes and enhance your deployment efficiency. Microservices architecture, a key aspect of Cloud Native, is thoroughly examined in Microservices Architecture. This chapter highlights the design principles and advantages of microservices over traditional monolithic systems, providing best practices for implementing and managing microservices in your projects. The book also introduces you to the diverse Cloud Native Tools and Platforms, including insights into the Cloud Native Computing Foundation (CNCF) and guidance on selecting the right tools for your needs. This chapter ensures you have the necessary resources to build and manage robust Cloud Native applications. Security is paramount in any technology stack, and Security in Cloud Native Environments addresses the critical aspects of securing your Cloud Native infrastructure. From securing containers and microservices to ensuring compliance with industry standards, this chapter equips you with the knowledge to protect your applications and data. Monitoring and Observability explores the importance of maintaining the health and performance of your Cloud Native applications. You'll learn about essential tools and techniques for effective monitoring and observability, enabling proactive identification and resolution of issues. The book concludes with Case Studies and Real-World Applications, presenting insights and lessons learned from industry implementations of Cloud Native technologies. These real-world examples provide valuable perspectives on the challenges and successes of adopting Cloud Native practices. Mastering Cloud Native is more than a technical guide; it's a comprehensive resource designed to inspire and educate. Whether you're a developer, operations professional, or technology leader, this book will equip you with the tools and knowledge to succeed in the Cloud Native era. Embrace the future of software development and unlock the full potential of Cloud Native computing with this indispensable guide.

*Hands-On Microservices with Kubernetes* Gigi Sayfan, 2019-07-05 Enhance your skills in building scalable infrastructure for your cloud-based applications Key Features Learn to design a scalable architecture by building continuous integration (CI) pipelines with Kubernetes Get an in-depth understanding of role-based access control (RBAC), continuous deployment (CD),

and observability Monitor a Kubernetes cluster with Prometheus and Grafana Book Description Kubernetes is among the most popular open-source platforms for automating the deployment, scaling, and operations of application containers across clusters of hosts, providing a container-centric infrastructure. Hands-On Microservices with Kubernetes starts by providing you with in-depth insights into the synergy between Kubernetes and microservices. You will learn how to use Delinkcious, which will serve as a live lab throughout the book to help you understand microservices and Kubernetes concepts in the context of a real-world application. Next, you will get up to speed with setting up a CI/CD pipeline and configuring microservices using Kubernetes ConfigMaps. As you cover later chapters, you will gain hands-on experience in securing microservices, and implementing REST, gRPC APIs, and a Delinkcious data store. In addition to this, you'll explore the Nuclio project, run a serverless task on Kubernetes, and manage and implement data-intensive tests. Toward the concluding chapters, you'll deploy microservices on Kubernetes and learn to maintain a well-monitored system. Finally, you'll discover the importance of service meshes and how to incorporate Istio into the Delinkcious cluster. By the end of this book, you'll have gained the skills you need to implement microservices on Kubernetes with the help of effective tools and best practices. What you will learn Understand the synergy between Kubernetes and microservices Create a complete CI/CD pipeline for your microservices on Kubernetes Develop microservices on Kubernetes with the Go kit framework using best practices Manage and monitor your system using Kubernetes and open-source tools Expose your services through REST and gRPC APIs Implement and deploy serverless functions as a service Externalize authentication, authorization and traffic shaping using a service mesh Run a Kubernetes cluster in the cloud on Google Kubernetes Engine Who this book is for This book is for developers, DevOps engineers, or anyone who wants to develop large-scale microservice-based systems on top of Kubernetes. If you are looking to use Kubernetes on live production projects or want to migrate existing systems to a modern containerized microservices system, then this book is for you. Coding skills, together with some knowledge of Docker, Kubernetes, and cloud concepts will be useful.

[Angular for Enterprise Applications](#) Doguhan Uluca, 2024-01-31 Harness the full power of Angular 17 with up-to-date tools and enterprise-level best practices Purchase of the print or Kindle book includes a free PDF eBook Key Features Dive straight into the most relevant topics that will help you build large, complex, and high-performance web applications Find updated examples, projects, and an overview of the latest tools and updates - including Jest, Cypress, NgRx workspace, Apollo GraphQL, and Angular Dev Tools Get to grips with reactive code and learn how to resolve potential issues before they crop up Book Description If you're looking to upskill and build sophisticated, minimalist web applications suited for enterprise use, Angular for Enterprise Applications is your guide to the next level of engineering mastery. In its third edition, this Angular book distils hard-earned lessons into a lucid roadmap for success. Adopting a pragmatic approach founded on a robust technical base, you'll utilize both JavaScript and TypeScript fundamentals. You'll also embrace agile engineering

coding principles and learn to architect optimally sized enterprise solutions employing the freshest concepts in Angular. You'll gradually build upon this foundation through insightful recipes, sample apps, and crystal-clear explanations. You'll master authentication and authorization and achieve optimal performance through reactive programming and lazy loading, build complex yet flexible UIs with Router-first principles, and then integrate with backend systems using REST and GraphQL APIs. You'll cover modern tools like RxAngular, Qwik, and Signals. You'll construct master/detail views using data tables and NgRx for state management. You'll explore DevOps using Docker and build CI/CD pipelines necessary for high-performance teams. By the end of this book, you'll be proficient in leveraging Angular in enterprise and design robust systems that scale effortlessly. What you will learn

Best practices for architecting and leading enterprise projects  
Minimalist, value-first approach to delivering web apps  
How standalone components, services, providers, modules, lazy loading, and directives work in Angular  
Manage your app's data reactivity using Signals or RxJS  
State management for your Angular apps with NgRx  
Angular ecosystem to build and deliver enterprise applications  
Automated testing and CI/CD to deliver high quality apps  
Authentication and authorization  
Building role-based access control with REST and GraphQL  
Who this book is for  
This book is for mid-to-senior developers looking to gain mastery by learning how to write, test, and deploy Angular in an enterprise environment. Working experience with JavaScript is a prerequisite, and a familiarity with TypeScript and RESTful APIs will help you understand the topics covered in this book more effectively

**Hands-On JavaScript High Performance** Justin Scherer, 2020-02-28 An example-driven guide covering modern web app development techniques and emerging technologies such as WebAssembly, Service Workers, and Svelte.js to build faster, secure, and scalable apps

Key Features  
Discover effective techniques for accessing DOM, minimizing painting, and using a V8 engine to optimize JavaScript  
Understand what makes the web tick and create apps that look and feel like native desktop applications  
Explore modern JavaScript frameworks like Svelte.js for building next-gen web apps

Book Description  
High-performance web development is all about cutting through the complexities in different layers of a web app and building services and APIs that improve the speed and performance of your apps on the browser. With emerging web technologies, building scalable websites and sustainable web apps is smoother than ever. This book starts by taking you through the web frontend, popular web development practices, and the latest version of ES and JavaScript. You'll work with Node.js and learn how to build web apps without a framework. The book consists of three hands-on examples that help you understand JavaScript applications at both the server-side and the client-side using Node.js and Svelte.js. Each chapter covers modern techniques such as DOM manipulation and V8 engine optimization to strengthen your understanding of the web. Finally, you'll delve into advanced topics such as CI/CD and how you can harness their capabilities to speed up your web development dramatically. By the end of this web development book, you'll have understood how the JavaScript landscape has evolved, not just for the frontend but also for the backend, and be ready to use new tools and techniques to

solve common web problems. What you will learnExplore Vanilla JavaScript for optimizing the DOM, classes, and modules, and querying with jQueryUnderstand immutable and mutable code and develop faster web appsDelve into Svelte.js and use it to build a complete real-time Todo appBuild apps to work offline by caching calls using service workersWrite C++ native code and call the WebAssembly module with JavaScript to run it on a browserImplement CircleCI for continuous integration in deploying your web appsWho this book is for This JavaScript book is for web developers, C/C++ programmers, and anyone who wants to build robust web applications using advanced web technologies. This book assumes a good grasp of Vanilla JavaScript and an understanding of web development tools, such as Chrome Developer tools or Mozilla's developer tools.

*Angular 6 for Enterprise-Ready Web Applications* Doguhan Uluca,2018-05-31 If you have been burnt by unreliable JavaScript frameworks before, you will be amazed by the maturity of the Angular platform. If you find it difficult to start new projects and pick the right tools and frameworks, frequently run into bugs, or find yourself lost in a sea of terms such as containers, Kanban, and Continuous Integration, then ...

**Hands-On Full-Stack Web Development with GraphQL and React** Sebastian Grebe,2019-01-31 Unearth the power of GraphQL, React, Apollo, Node, and Express to build a scalable, production ready application Key FeaturesBuild full stack applications with modern APIs using GraphQL and ApolloIntegrate Apollo into React and build frontend components using GraphQLImplement a self-updating notification pop-up with a unique GraphQL feature called SubscriptionsBook Description React, one of the most widely used JavaScript frameworks, allows developers to build fast and scalable front end applications for any use case. GraphQL is the modern way of querying an API. It represents an alternative to REST and is the next evolution in web development. Combining these two revolutionary technologies will give you a future-proof and scalable stack you can start building your business around. This book will guide you in implementing applications by using React, Apollo, Node.js and SQL. We'll focus on solving complex problems with GraphQL, such as abstracting multi-table database architectures and handling image uploads. Our client, and server will be powered by Apollo. Finally we will go ahead and build a complete Graphbook. While building the app, we'll cover the tricky parts of connecting React to the back end, and maintaining and synchronizing state. We'll learn all about querying data and authenticating users. We'll write test cases to verify the front end and back end functionality for our application and cover deployment. By the end of the book, you will be proficient in using GraphQL and React for your full-stack development requirements. What you will learnResolve data from multi-table database and system architecturesBuild a GraphQL API by implementing models and schemas with Apollo and SequelizeSet up an Apollo Client and build front end components using ReactUse Mocha to test your full-stack applicationWrite complex React components and share data across themDeploy your application using DockerWho this book is for The book is for web developers who want to enhance their skills and build complete full stack applications using industry standards. Familiarity with JavaScript, React, and GraphQL is expected to get the most from this book.

**Serverless Design Patterns and Best Practices** Brian Zambrano,2018-04-12 Get started with designing your serverless application using optimum design patterns and industry standard practices Key Features Learn the details of popular software patterns and how they are applied to serverless applications Understand key concepts and components in serverless designs Walk away with a thorough understanding of architecting serverless applications Book Description Serverless applications handle many problems that developers face when running systems and servers. The serverless pay-per-invocation model can also result in drastic cost savings, contributing to its popularity. While it's simple to create a basic serverless application, it's critical to structure your software correctly to ensure it continues to succeed as it grows. Serverless Design Patterns and Best Practices presents patterns that can be adapted to run in a serverless environment. You will learn how to develop applications that are scalable, fault tolerant, and well-tested. The book begins with an introduction to the different design pattern categories available for serverless applications. You will learn the trade-offs between GraphQL and REST and how they fare regarding overall application design in a serverless ecosystem. The book will also show you how to migrate an existing API to a serverless backend using AWS API Gateway. You will learn how to build event-driven applications using queuing and streaming systems, such as AWS Simple Queuing Service (SQS) and AWS Kinesis. Patterns for data-intensive serverless application are also explained, including the lambda architecture and MapReduce. This book will equip you with the knowledge and skills you need to develop scalable and resilient serverless applications confidently. What you will learn Comprehend the popular design patterns currently being used with serverless architectures Understand the various design options and corresponding implementations for serverless web application APIs Learn multiple patterns for data-intensive serverless systems and pipelines, including MapReduce and Lambda Architecture Learn how to leverage hosted databases, queues, streams, storage services, and notification services Understand error handling and system monitoring in a serverless architecture a serverless architecture Learn how to set up a serverless application for continuous integration, continuous delivery, and continuous deployment Who this book is for If you're a software architect, engineer, or someone who wants to build serverless applications, which are non-trivial in complexity and scope, then this book is for you. Basic knowledge of programming and serverless computing concepts are assumed.

Securing DevOps Julien Vehent,2018-08-20 Summary Securing DevOps explores how the techniques of DevOps and security should be applied together to make cloud services safer. This introductory book reviews the latest practices used in securing web applications and their infrastructure and teaches you techniques to integrate security directly into your product. You'll also learn the core concepts of DevOps, such as continuous integration, continuous delivery, and infrastructure as a service. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology An application running in the cloud can benefit from incredible efficiencies, but they come with unique security threats too. A DevOps team's highest priority is understanding those risks and hardening the



system against them. About the Book *Securing DevOps* teaches you the essential techniques to secure your cloud services. Using compelling case studies, it shows you how to build security into automated testing, continuous delivery, and other core DevOps processes. This experience-rich book is filled with mission-critical strategies to protect web applications against attacks, deter fraud attempts, and make your services safer when operating at scale. You'll also learn to identify, assess, and secure the unique vulnerabilities posed by cloud deployments and automation tools commonly used in modern infrastructures. What's inside An approach to continuous security Implementing test-driven security in DevOps Security techniques for cloud services Watching for fraud and responding to incidents Security testing and risk assessment About the Reader Readers should be comfortable with Linux and standard DevOps practices like CI, CD, and unit testing. About the Author Julien Vehent is a security architect and DevOps advocate. He leads the Firefox Operations Security team at Mozilla, and is responsible for the security of Firefox's high-traffic cloud services and public websites. Table of Contents *Securing DevOps* PART 1 - Case study: applying layers of security to a simple DevOps pipeline Building a barebones DevOps pipeline Security layer 1: protecting web applications Security layer 2: protecting cloud infrastructures Security layer 3: securing communications Security layer 4: securing the delivery pipeline PART 2 - Watching for anomalies and protecting services against attacks Collecting and storing logs Analyzing logs for fraud and attacks Detecting intrusions The Caribbean breach: a case study in incident response PART 3 - Maturing DevOps security Assessing risks Testing security Continuous security

*Kubernetes for Full-Stack Developers*, 2020-02-04 This book is designed to help newcomers and experienced users alike learn about Kubernetes. Its chapters are designed to introduce core Kubernetes concepts and to build on them to a level where running an application on a production cluster is a familiar, repeatable, and automated process. From there, more advanced topics are introduced, like how to manage a Kubernetes cluster itself.

**Angular for Enterprise-Ready Web Applications** Doguhan Uluca, 2020-05-29 Revised and updated second edition of the bestselling hands-on guide to building enterprise-ready web apps using an evergreen Angular platform Key Features Updated examples, projects, and a new overview of tools - including NgRX and Ivy, automated testing, and Firebase authentication New chapter summarizing history of web frameworks and Angular version updates All-new RESTful API implementation leveraging the MEAN stack with MongoDB, Express.js, Angular and Node.js Book Description This second edition of *Angular for Enterprise-Ready Web Applications* is updated with in-depth coverage of the evergreen Angular platform. You'll start by mastering Angular programming fundamentals. Using the Kanban method and GitHub tools, you'll build great-looking apps with Angular Material and also leverage reactive programming patterns with RxJS, discover the flux pattern with NgRx, become familiar with automated testing, utilize continuous integration using CircleCI, and deploy your app to the cloud using Vercel Now and GCloud. You will then learn how to design and develop line-of-business apps using router-first architecture with observable data anchors, demonstrated through oft-used recipes like master/detail views, and

data tables with pagination and forms. Next, you'll discover robust authentication and authorization design demonstrated via integration with Firebase, API documentation using Swagger, and API implementation using the MEAN stack. Finally, you will learn about DevOps using Docker, build a highly available cloud infrastructure on AWS, capture user behavior with Google Analytics, and perform load testing. By the end of the book, you'll be familiar with the entire gamut of modern web development and full-stack architecture, learning patterns and practices to be successful as an individual developer on the web or as a team in the enterprise. What you will learn

Adopt a minimalist, value-first approach to delivering web apps  
Master Angular development fundamentals, RxJS, CLI tools, GitHub, and Docker  
Discover the flux pattern and NgRx  
Implement a RESTful APIs using Node.js, Express.js, and MongoDB  
Create secure and efficient web apps for any cloud provider or your own servers  
Deploy your app on highly available cloud infrastructure using DevOps, CircleCI, and AWS

Who this book is for  
This book is for developers who want to confidently deliver high-quality and production-grade Angular apps from design to deployment. Developers that have prior experience in writing a RESTful APIs will also benefit, as well as developers who will gain greater awareness of how they fit into the larger picture of delivering a web application. Prior experience with RESTful APIs is desired.

Hands-On Serverless Applications with Go Mohamed Labouardy, 2018-08-29 Learn to build, secure, deploy, and manage your serverless application in Golang with AWS Lambda Key Features Implement AWS lambda to build scalable and cost-efficient applications in Go Design and set the data flow between cloud services and custom business logic Learn to design Lambda functions using real-world examples and implementation scenarios Book Description Serverless architecture is popular in the tech community due to AWS Lambda. Go is simple to learn, straightforward to work with, and easy to read for other developers; and now it's been heralded as a supported language for AWS Lambda. This book is your optimal guide to designing a Go serverless application and deploying it to Lambda. This book starts with a quick introduction to the world of serverless architecture and its benefits, and then delves into AWS Lambda using practical examples. You'll then learn how to design and build a production-ready application in Go using AWS serverless services with zero upfront infrastructure investment. The book will help you learn how to scale up serverless applications and handle distributed serverless systems in production. You will also learn how to log and test your application. Along the way, you'll also discover how to set up a CI/CD pipeline to automate the deployment process of your Lambda functions. Moreover, you'll learn how to troubleshoot and monitor your apps in near real-time with services such as AWS CloudWatch and X-ray. This book will also teach you how to secure the access with AWS Cognito. By the end of this book, you will have mastered designing, building, and deploying a Go serverless application. What you will learn

Understand how AWS Lambda works and use it to create an application  
Understand how to scale up serverless applications  
Design a cost-effective serverless application in AWS  
Build a highly scalable and fault-tolerant CI/CD pipeline  
Understand how to troubleshoot and monitor serverless apps in AWS  
Discover the

working of APIs and single page applications Build a production-ready serverless application in Go Who this book is for This book is for Go developers who would like to learn about serverless architecture. Go programming knowledge is assumed. DevOps and Solution Architects who are interested in building serverless applications in Go can also choose this book.

**Ultimate Web Automation Testing with Cypress** Vitaly Skadorva,2023-12-10 Elevate Your Web Testing with Practical Insights and Advanced Techniques. KEY FEATURES ● Step-by-step learning curve from the fundamentals to advanced Cypress testing techniques. ● Learn to set up a development environment and write effective Cypress tests with hands-on guidance. ● Master E2E testing, component testing, API testing, and data-driven testing for comprehensive application coverage. ● Explore advanced Cypress techniques, integrate with popular version control systems, and enhance collaboration with tools like Cucumber. ● Implement Cypress in CI/CD pipelines, ensuring automated testing, and gain insights into test outcomes through comprehensive reporting and result analysis. DESCRIPTION Dive into the world of automated web testing with “Ultimate Web Automation Testing with Cypress.” From foundational concepts to advanced techniques, the book equips professionals with the skills to seamlessly integrate Cypress into their workflow. Starting with setup and basic tests, it progresses to cover end-to-end, component, API, and data-driven testing with practical examples and best practices. Further, it explores advanced topics like custom commands, plugins, Cypress Cloud, Smart Orchestration and Flaky Test Management. The book also unveils the integration with GitHub, GitLab, and Cucumber, and concludes with CI/CD implementation using Docker and Jenkins Pipelines, along with effective reporting techniques. By the end, you will have a profound understanding of Cypress, empowering you to excel in web application testing and advance your careers in the competitive software testing industry. WHAT WILL YOU LEARN ● Learn how to seamlessly incorporate Cypress into your web testing projects for robust and efficient testing. ● Acquire the expertise to navigate and successfully test intricate and challenging scenarios in web applications. ● Discover techniques to enhance the speed and reliability of your Cypress tests, ensuring efficient and accurate results. ● Create custom commands in Cypress, tailoring your testing approach to specific project requirements and complexities. WHO IS THIS BOOK FOR? This book is meticulously designed for software testers, developers, DevOps engineers, managers, students, and educators. It offers practical insights for both beginners and experienced professionals. Whether you're looking to enhance your testing skills or streamline web application testing, this book provides valuable guidance for all levels of expertise. TABLE OF CONTENTS 1. Getting Started with Cypress Testing 2. Setting Up the Development Environment 3. Writing Your First Test 4. End-to-End (E2E) Testing 5. Component Testing 6. API Testing 7. Data-Driven Testing 8. Advanced Cypress Techniques 9. Cypress Cloud, Smart Orchestration, and Flaky Test Management 10. Integrating with GitHub, GitLab, and Cucumber 11. Continuous Integration and Continuous Deployment (CI/CD) 12. Reporting and Test Results 13. Conclusion Index

**React 17 Design Patterns and Best Practices** Carlos Santana Roldán,2021-05-17 Build scalable, maintainable, and

powerful React web apps with design patterns and insightful best practices

**Key Features**

- Make the most of design patterns in React - including render props and controlled and uncontrolled inputs
- Master React Hooks with the help of this updated third edition
- Work through examples that can be used to create reusable code and extensible designs

**Book Description**

Filled with useful React patterns that you can use in your projects straight away, this book will help you save time and build better web applications with ease. React 17 Design Patterns and Best Practices is a hands-on guide for those who want to take their coding skills to a new level. You'll spend most of your time working your way through the principles of writing maintainable and clean code, but you'll also gain a deeper insight into the inner workings of React. As you progress through the chapters, you'll learn how to build components that are reusable across the application, how to structure applications, and create forms that actually work. Then you'll build on your knowledge by exploring how to style React components and optimize them to make applications faster and more responsive. Once you've mastered the rest, you'll learn how to write tests effectively and how to contribute to React and its ecosystem. By the end of this book, you'll be able to avoid the process of trial and error and developmental headaches. Instead, you'll be able to use your new skills to efficiently build and deploy real-world React web applications you can be proud of.

**What you will learn**

- Get to grips with the techniques of styling and optimizing React components
- Create components using the new React Hooks
- Use server-side rendering to make applications load faster
- Get up to speed with the new React Suspense technique and using GraphQL in your projects
- Write a comprehensive set of tests to create robust and maintainable code
- Build high-performing applications by optimizing components

**Who this book is for**

This book is for web developers who want to understand React better and apply it to real-life app development. You'll need an intermediate-level experience with React and JavaScript before you get started.

**Full-Stack Web Development with GraphQL and React** Sebastian Grebe, 2022-02-28

Unleash the power of GraphQL, React 17, Node, and Express to build a scalable and production-ready application from scratch to be deployed on AWS

**Key Features**

- Build full-stack applications with modern APIs using GraphQL and React Hooks
- Integrate Apollo into React and build frontend components using GraphQL
- Implement a self-updating notification pop-up with a unique GraphQL feature called Subscriptions

**Book Description**

React and GraphQL, when combined, provide you with a very dynamic, efficient, and stable tech stack to build web-based applications. GraphQL is a modern solution for querying an API that represents an alternative to REST and is the next evolution in web development. This book guides you in creating a full-stack web application from scratch using modern web technologies such as Apollo, Express.js, Node.js, and React. First, you'll start by configuring and setting up your development environment. Next, the book demonstrates how to solve complex problems with GraphQL, such as abstracting multi-table database architectures and handling image uploads using Sequelize. You'll then build a complete GraphQL application from scratch. While doing so, you'll cover the tricky parts of connecting React to the backend, and maintaining and synchronizing state. In addition to this, you'll also learn how to write Reusable React components and use React Hooks.

Later chapters will guide you through querying data and authenticating users in order to enable user privacy. Finally, you'll explore how to deploy your application on AWS and ensure continuous deployment using Docker and CircleCI. By the end of this web development book, you'll have learned how to build and deploy scalable full-stack applications with ease using React and GraphQL. What you will learn

- Build a GraphQL API by implementing models and schemas with Apollo and Sequelize
- Set up an Apollo Client and build frontend components using React
- Write Reusable React components and use React Hooks
- Authenticate and query user data using GraphQL
- Use Mocha to write test cases for your full-stack application
- Deploy your application to AWS using Docker and CircleCI

Who this book is for This React GraphQL book is for web developers familiar with React and GraphQL who want to enhance their skills and build full-stack applications using industry standards like React, Apollo, Node.js, and SQL at scale while learning to solve complex problems with GraphQL.

**Learning GitHub Actions** Brent Laster, 2023-08-17 Automate your software development processes with GitHub Actions, the continuous integration and continuous delivery platform that integrates seamlessly with GitHub. With this practical book, open source author, trainer, and DevOps director Brent Laster explains everything you need to know about using and getting value from GitHub Actions. You'll learn what actions and workflows are and how they can be used, created, and incorporated into your processes to simplify, standardize, and automate your work in GitHub. This book explains the platform, components, use cases, implementation, and integration points of actions, so you can leverage them to provide the functionality and features needed in today's complex pipelines and software development processes. You'll learn how to design and implement automated workflows that respond to common events like pushes, pull requests, and review updates. You'll understand how to use the components of the GitHub Actions platform to gain maximum automation and benefit. With this book, you will:

- Learn what GitHub Actions are, the various use cases for them, and how to incorporate them into your processes
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- Automate processes and implement functionality
- Create your own custom actions with Docker, JavaScript, or shell approaches
- Troubleshoot and debug workflows that use actions
- Combine actions with GitHub APIs and other integration options
- Identify ways to securely implement workflows with GitHub Actions
- Understand how GitHub Actions compares to other options

**Atlassian DevOps Toolchain Cookbook** Robert Wen, Alex Ortiz, Edward Gaile, Rodney Nissen, 2024-07-19 Seamlessly integrate Atlassian Open DevOps tools such as Jira, Bitbucket Pipelines, Compass, Confluence, and Opsgenie with other automated testing, monitoring, and security tools such as SonarQube and Snyk for a powerful and agile DevSecOps deployment process

- Key Features Streamline development progress visibility by connecting Jira with other DevOps tools through Open DevOps
- Enhance observability by integrating development tools like Bitbucket Pipelines with Compass
- Learn best practices for DevSecOps integrations and processes using real-world examples

Purchase of the print or Kindle book includes a free PDF eBook

Book Description Implementing DevOps practices and toolchains for automated testing and

deployment can accelerate product development with minimal errors in the production environment. However, creating DevOps toolchains by integrating tools from various vendors presents challenges for both administrators and developers. Written by four well-known experts from the Atlassian community, this book addresses the complexities of DevOps toolchain creation and integration by leveraging Atlassian's Open DevOps solution. Starting with a holistic overview of the DevOps and Atlassian Open DevOps solution, you'll learn to integrate Jira with other tools. You'll then find out how to create and integrate a CI/CD pipeline in Bitbucket for automated testing and deployment to Docker containers. With step-by-step guidance, you'll connect Jira and Bitbucket with other tools, such as Snyk for security and SonarQube for testing, to form an extensive toolchain. You'll also learn how Compass uses CheckOps for observability and how to use Confluence for documentation and reporting. Finally, you'll leverage Opsgenie's ChatOps functionality to enhance collaboration between developers and operations teams. By the end of this book, you'll be able to establish your DevOps toolchain by integrating Atlassian tools to automate and optimize the software development lifecycle and beyond.

What you will learn

- Extend reporting capabilities in Jira using Open DevOps
- Integrate Jira with popular tools for tracking the build and deployment status
- Track the progress of product ideas with Jira Product Discovery
- Document and report projects using Confluence
- Create and deploy CI/CD pipelines in Bitbucket and perform testing in SonarQube
- Integrate security scanning into your CI/CD pipeline using Snyk
- Create an observability portal in Compass
- Use Opsgenie to collaborate with other teams when incidents occur

Who this book is for

This book is a valuable resource for DevOps engineers, platform engineers, SREs, software developers, and Atlassian tool administrators who want to automate testing, integration, and deployment processes using the Atlassian DevOps toolchain. A basic understanding of DevOps processes will be beneficial. While prior knowledge of administering Atlassian tools may be helpful, it is not necessary, as the recipes cover the administrative tasks needed to implement the DevOps toolchain and practices.

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## Table of Contents Circleci

1. Understanding the eBook Circleci
  - The Rise of Digital Reading Circleci
  - Advantages of eBooks Over Traditional Books
2. Identifying Circleci
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Circleci
  - User-Friendly Interface
4. Exploring eBook Recommendations from Circleci
  - Personalized Recommendations
  - Circleci User Reviews and Ratings
  - Circleci and Bestseller Lists
5. Accessing Circleci Free and Paid eBooks
  - Circleci Public Domain eBooks
  - Circleci eBook Subscription Services
  - Circleci Budget-Friendly Options
6. Navigating Circleci eBook Formats
  - ePub, PDF, MOBI, and More
  - Circleci Compatibility with Devices
  - Circleci Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Circleci
  - Highlighting and Note-Taking Circleci
  - Interactive Elements Circleci
8. Staying Engaged with Circleci
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Circleci
9. Balancing eBooks and Physical Books Circleci
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Circleci
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Circleci
  - Setting Reading Goals Circleci
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Circleci
  - Fact-Checking eBook Content of Circleci
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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