

From Dev To Ops An Introduction Appdynamics

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COLE ROY

The DevOps Handbook IT Revolution

Simplify your DevOps roles with DevOps tools and techniques Key Features Learn to utilize business resources effectively to increase productivity and collaboration Leverage the ultimate open source DevOps tools to achieve continuous integration and continuous delivery (CI/CD) Ensure faster time-to-market by reducing overall lead time and deployment downtime Book Description The implementation of DevOps processes requires the efficient use of various tools, and the choice of these tools is crucial for the sustainability of projects and collaboration between development (Dev) and operations (Ops). This book presents the different patterns and tools that you can use to provision and configure an infrastructure in the cloud. You'll begin by understanding DevOps culture, the application of DevOps in cloud infrastructure, provisioning with Terraform, configuration with Ansible, and image building with Packer. You'll then be taken through source code versioning with Git and the construction of a DevOps CI/CD pipeline using Jenkins, GitLab CI, and Azure Pipelines. This DevOps handbook will also guide you in containerizing and deploying your applications with Docker and Kubernetes. You'll learn how to reduce deployment downtime with blue-green deployment and the feature flags technique, and study DevOps practices for open source projects. Finally, you'll grasp some best practices for reducing the overall application lead time to ensure faster time to market. By the end of this book, you'll have built a solid foundation in DevOps, and developed the skills necessary to enhance a traditional software delivery process using modern software delivery tools and techniques What you will learn Become well versed with DevOps culture and its practices Use Terraform and Packer for cloud infrastructure provisioning Implement Ansible for infrastructure configuration Use basic Git commands and understand the Git flow process Build a DevOps pipeline with Jenkins, Azure Pipelines, and GitLab CI Containerize your applications with Docker and Kubernetes Check application quality with SonarQube and Postman Protect DevOps processes and applications using DevSecOps tools Who this book is for If you are a developer or a system administrator interested in understanding continuous integration, continuous delivery, and containerization with DevOps tools and techniques, this book is for you.

Devops Apress

Some companies think that adopting devops means bringing in specialists or a host of new tools. With this practical guide, you'll learn why devops is a professional and cultural movement that calls for change from inside your organization. Authors Ryn Daniels and Jennifer Davis provide several approaches for improving collaboration within teams, creating affinity among teams, promoting efficient tool usage in your company, and scaling up what works throughout your organization's inflection points. Devops stresses iterative efforts to break down information silos, monitor relationships, and repair misunderstandings that arise between and within teams in your organization. By applying the actionable strategies in this book, you can make sustainable changes in your environment regardless of your level within your organization. Explore the foundations of devops and learn the four pillars of effective devops Encourage collaboration to help individuals work together and build durable and long-lasting relationships Create affinity among teams while balancing differing goals or metrics Accelerate cultural direction by selecting tools and workflows that complement your organization Troubleshoot common problems and misunderstandings that can arise throughout the organizational lifecycle Learn from case studies from organizations and individuals to help inform your own devops journey

The Phoenix Project "O'Reilly Media, Inc."

Pro Website Development and Operations gives you the experience you need to create and operate a large-scale production website. Large-scale websites have their own unique set of problems

regarding their design—problems that can get worse when agile methodologies are adopted for rapid results. Managing large-scale websites, deploying applications, and ensuring they are performing well often requires a full scale team involving the development and operations sides of the company—two departments that don't always see eye to eye. When departments struggle with each other, it adds unnecessary complexity to the work, and that result shows in the customer experience. Pro Website Development and Operations shows you how to streamline the work of web development and operations - incorporating the latest insights and methodologies of DevOps - so that your large-scale website is up and running quickly, with little friction and extreme efficiency between divisions. This book provides critical knowledge for any developer engaged in delivering the business and software engineering goals required to create and operate a large-scale production website. It addresses how developers can collaborate effectively with business and engineering teams to ensure applications are smoothly transitioned from product inception to implementation, and are properly deployed and managed. Pro Website Development and Operations provides unique insights into how systems, code, and process can all work together to make large-scale website development and operations ultra-efficient.

Site Reliability Engineering "O'Reilly Media, Inc."

This book explains the management aspects of DevOps for those who are professionally engaged in information and technology management. It is written for IT specialists, IT managers and IT executives. It does not show DevOps as a phenomenon associated with new automation tools, programming techniques or technologies; It differs from other books by the structural nature of the narrative (perhaps, excessively structured) approach and by the attempt to cover fully the phenomenon of DevOps at a basic, fundamental level. By this approach, this book not only creates awareness of the new subject area but is also helps building the basics. The reader learns about the origins of DevOps, the inevitability of its emergence, the key prerequisites and their reflection in practices, about the practices themselves and the principles on which they are based. This book is the core literature of the EXIN DevOps Foundation certification. This exam tests the understanding of basic DevOps concepts and how they relate to each other, as well as the value of DevOps for the business. EXIN DevOps Foundation is the first level of the EXIN DevOps certification program. The EXIN DevOps Professional certification tests the knowledge of DevOps practices and how to integrate teams. The EXIN DevOps Master certification is about promoting organizational change and leading the way towards continuous delivery and improvement.

Python for DevOps Packt Publishing Ltd

This IBM® Redbooks® publication provides an example approach of an agile IT team that implements development and operations (DevOps) capabilities into an IBM CICS® application. Several tools are used to show how teams can achieve transparency, traceability, and automation in their application lifecycle with the assistance of all the stakeholders to deliver high-quality application changes that meet the requirements. The application changes that are built highlight the composable and dynamic nature of using CICS, the Liberty JVM runtime server, and IBM UrbanCode Deploy, which allows developers to get their applications running quickly by using only the programming model features that are required for their applications. The target audience for this publication is IT developers, managers, and architects, and project managers, test managers and developers, and operations managers and developers.

Engineering DevOps IT Revolution

Have we entered the age of NoOps infrastructures? Hardly. Old-style system administrators may be disappearing in the face of automation and cloud computing, but operations have become more significant than ever. As this O'Reilly Radar Report explains, we're moving into a more complex arrangement known as "DevOps." Mike Loukides, O'Reilly's VP of Content Strategy, provides an incisive look into this new world of operations, where IT specialists are becoming part of the

development team. In an environment with thousands of servers, these specialists now write the code that maintains the infrastructure. Even applications that run in the cloud have to be resilient and fault tolerant, need to be monitored, and must adjust to huge swings in load. That was underscored by Amazon's EBS outage last year. From the discussions at O'Reilly's Velocity Conference, it's evident that many operations specialists are quickly adapting to the DevOps reality. But as a whole, the industry has just scratched the surface. This report tells you why.

Practical DevOps Apress

Besides the DevOps Professional Courseware (ISBN: 978 94 018 313 7) publication you are advised to obtain the publication *The DevOps Handbook: How to Create World-Class Agility, Reliability, and Security in Technology Organizations* (ISBN: 978 19 427 8800 3). The word DevOps is a contraction of 'Development' and 'Operations'. DevOps is a set of best practices that emphasize the collaboration and communication of IT-professionals (developers, operators, and support staff) in the lifecycle of applications and services, leading to:

- Continuous Integration: merging all developed working copies to a shared mainline several times a day
- Continuous Deployment: release continuously or as often as possible
- Continuous Feedback: seek feedback from stakeholders during all lifecycle stages

The DevOps practices covered in this certification are derived from the Three Ways:-

- The First Way is to enable the work to move fast from left to right, from Development to Operations to the customer.
- The Second Way is to enable feedback to go fast from right to left, from all stakeholders back into the value stream.
- The Third Way is to enable learning by creating a high-trust culture of experimentation and risk-taking. Moreover, the crucial subjects of security in all stages, and maintaining compliance during change are covered.

The certification has been developed in cooperation with experts in the DevOps work field. Recommended per knowledge: Pre-knowledge of Agile, Lean and/or IT Service Management, for instance through the EXIN Agile Scrum Foundation exam, LITA Lean IT Foundation exam or EXIN IT Service Management Foundation based on ISO/IEC 20000 exam, is recommended.

DevOps in Python "O'Reilly Media, Inc."

The overwhelming majority of a software system's lifespan is spent in use, not in design or implementation. So, why does conventional wisdom insist that software engineers focus primarily on the design and development of large-scale computing systems? In this collection of essays and articles, key members of Google's Site Reliability Team explain how and why their commitment to the entire lifecycle has enabled the company to successfully build, deploy, monitor, and maintain some of the largest software systems in the world. You'll learn the principles and practices that enable Google engineers to make systems more scalable, reliable, and efficient—lessons directly applicable to your organization. This book is divided into four sections: Introduction—Learn what site reliability engineering is and why it differs from conventional IT industry practices Principles—Examine the patterns, behaviors, and areas of concern that influence the work of a site reliability engineer (SRE) Practices—Understand the theory and practice of an SRE's day-to-day work: building and operating large distributed computing systems Management—Explore Google's best practices for training, communication, and meetings that your organization can use

DevOps Tools for Java Developers "O'Reilly Media, Inc."

This book is the culmination of years of experience in the information technology and cybersecurity field. Components of this book have existed as rough notes, ideas, informal and formal processes developed and adopted by the authors as they led and executed red team engagements over many years. The concepts described in this book have been used to successfully plan, deliver, and perform professional red team engagements of all sizes and complexities. Some of these concepts were loosely documented and integrated into red team management processes, and much was kept as tribal knowledge. One of the first formal attempts to capture this information was the SANS SEC564 Red Team Operation and Threat Emulation course. This first effort was an attempt to document these ideas in a format usable by others. The authors have moved beyond SANS training and use this book to detail red team operations in a practical guide. The authors' goal is to provide practical guidance to aid in the management and execution of professional red teams. The term 'Red Team' is often confused in the cybersecurity space. The terms roots are based on military concepts that have slowly made their way into the commercial space. Numerous interpretations directly affect the scope and quality of today's security engagements. This confusion has created unnecessary difficulty as organizations attempt to measure threats from the results of quality security assessments. You quickly understand the complexity of red teaming by performing a quick google search for the definition, or better yet, search through the numerous interpretations and opinions posted by security professionals on Twitter. This book was written to provide a practical solution to address this confusion. The Red Team concept requires a unique approach different from other security tests. It relies heavily on well-defined TTPs critical to the successful simulation of realistic threat and adversary techniques. Proper Red Team results are much more than just a list of flaws identified during other security tests. They provide a deeper understanding of how an organization would perform against an actual threat and determine where a security operation's strengths and weaknesses exist. Whether you support a defensive or offensive role in security, understanding how Red Teams can be used to improve defenses is extremely valuable. Organizations spend a great deal of time and money on the security of their systems. It is critical to have professionals who understand the threat and can effectively and efficiently operate their tools and techniques safely and professionally. This book will provide you with the real-world guidance needed to manage and operate a professional Red Team, conduct quality engagements, understand the role a Red Team plays in security operations. You will explore Red Team concepts in-depth, gain an understanding of the fundamentals of threat emulation, and understand tools needed you reinforce your organization's security posture.

Effective DevOps John Wiley & Sons

Achieve streamlined, rapid production with enterprise-level DevOps Awarded DevOps 2017 Book of the Year, *The DevOps Adoption Playbook* provides practical, actionable, real-world guidance on implementing DevOps at enterprise scale. Author Sanjeev Sharma heads the DevOps practice for IBM; in this book, he provides unique guidance and insight on implementing DevOps at large organizations. Most DevOps literature is aimed at startups, but enterprises have unique needs, capabilities, limitations, and challenges; "DevOps for startups" doesn't work at this scale, but the DevOps paradigm can revolutionize enterprise IT. Deliver high-value applications and systems with velocity and agility by adopting the necessary practices, automation tools, and organizational and cultural changes that lead to innovation through rapid experimentation. Speed is an advantage in the face of competition, but it must never come at the expense of quality; DevOps allows your organization to keep both by intersecting development, quality assurance, and operations. Enterprise-level DevOps comes with its own set of challenges, but this book shows you just how easily they are overcome. With a slight shift in perspective, your organization can stay ahead of the competition while keeping costs, risks, and quality under control. Grasp the full extent of the DevOps impact on IT organizations Achieve high-value innovation and optimization with low cost and risk Exceed traditional business goals with higher product release efficiency Implement DevOps in large-scale enterprise IT environments DevOps has been one of IT's hottest trends for the past decade, and plenty of success stories testify to its effectiveness in organizations of any size, industry, or level of IT maturity, all around the world. *The DevOps Adoption Playbook* shows you how to get your

organization on board so you can slip production into the fast lane and innovate your way to the top.

Pro Website Development and Operations IT Revolution

Roll up your sleeves and jump into Agile project management to use and customize Microsoft Azure DevOps. Organizations adopt Agile practices because they are a key enabler to run better projects, get more successful end results, and achieve an overall higher quality output. To benefit the most from Agile, you need an Application Life Cycle Management (ALM) or DevOps toolset that supports your style and work environment. Agile Project Management with Azure DevOps teaches you how to use Azure DevOps to implement many Agile practices such as SAFe, Scrum, and Kanban, and it shows you how they fit into a well-planned Agile implementation. Agile product owners will learn how to work with Azure DevOps to set up a project from scratch, and to continue using Azure DevOps throughout. Keeping track of progress is important in any project. Author Joachim Rossberg teaches you about the tools in Azure DevOps that can help you track progress and key metrics, including those that are available right out of the box. You will learn how to create and refine the backlog, work with Kanban and Scrum task boards, and get exposed to valuable key concepts along the way. Finally, you will dive into Azure DevOps extensibility to learn about the many ways you can customize reporting to best meet your needs What You'll Learn Understand Agile product management concepts and processes for working with Azure DevOps Discover how Azure DevOps supports agile processes end-to-end Implement Agile processes in Azure DevOps Customize Azure DevOps to better support your processes Complete step-by-step setup of an Agile project from scratch and manage it through its life cycle Who This Book Is For Software product owners, Agile leaders, Scrum masters, and software engineers who use Microsoft Azure DevOps. A basic understanding of Agile is helpful.

The DevOps Handbook "O'Reilly Media, Inc."

Explore and apply best practices for efficient application deployment. This book draws upon author Moshe Zadka's years of Dev Ops experience and focuses on the parts of Python, and the Python ecosystem, that are relevant for DevOps engineers. You'll start by writing command-line scripts and automating simple DevOps-style tasks. You'll then move on to more advanced cases, like using Jupyter as an auditable remote-control panel, and writing Ansible and Salt extensions. This work also covers how to use the AWS API to manage cloud infrastructure, and how to manage Python programs and environments on remote machines. Python was invented as a systems management language for distributed operating systems, which makes it an ideal tool for DevOps. Assuming a basic understanding of Python concepts, this book is perfect for engineers who want to move from operations/system administration into coding. What You'll Learn Use third party packages and create new packages Create operating system management and automation code in Python Write testable code, and testing best practices Work with REST APIs for web clients Who This Book Is For Junior or intermediate sysadmin who has picked up some bash and Python basics.

Cloud Native DevOps with Kubernetes "O'Reilly Media, Inc."

Harness the power of DevOps to boost your skill set and make your IT organization perform better About This Book Get to know the background of DevOps so you understand the collaboration between different aspects of an IT organization and a software developer Improve your organization's performance to ensure smooth production of software and services Deploy top-quality software and ensure software maintenance and release management with this practical guide Who This Book Is For This book is aimed at developers and system administrators who wish to take on larger responsibilities and understand how the infrastructure that builds today's enterprises works. This book is also great for operations personnel who would like to better support developers. You do not need to have any previous knowledge of DevOps. What You Will Learn Appreciate the merits of DevOps and continuous delivery and see how DevOps supports the agile process Understand how all the systems fit together to form a larger whole Set up and familiarize yourself with all the tools you need to be efficient with DevOps Design an application that is suitable for continuous deployment systems with DevOps in mind Store and manage your code effectively using different options such as Git, Gerrit, and Gitlab Configure a job to build a sample CRUD application Test the code using automated regression testing with Jenkins Selenium Deploy your code using tools such as Puppet, Ansible, Palletops, Chef, and Vagrant Monitor the health of your code with Nagios, Munin, and Graphite Explore the workings of Trac—a tool used for issue tracking In Detail DevOps is a practical field that focuses on delivering business value as efficiently as possible. DevOps encompasses all the flows from code through testing environments to production environments. It stresses the cooperation between different roles, and how they can work together more closely, as the roots of the word imply—Development and Operations. After a quick refresher to DevOps and continuous delivery, we quickly move on to looking at how DevOps affects architecture. You'll create a sample enterprise Java application that you'll continue to work with through the remaining chapters. Following this, we explore various code storage and build server options. You will then learn how to perform code testing with a few tools and deploy your test successfully. Next, you will learn how to monitor code for any anomalies and make sure it's running properly. Finally, you will discover how to handle logs and keep track of the issues that affect processes Style and approach This book is primarily a technical guide to DevOps with practical examples suitable for people who like to learn by implementing concrete working code. It starts out with background information and gradually delves deeper into technical subjects.

Google Cloud for DevOps Engineers Bookbaby

Bring the best of DevOps to build, deploy, and maintain applications on AWS About This Book* Work through practical examples and gain DevOps best practices to successfully deploy applications on AWS* Successfully provision and operate distributed application systems and your AWS infrastructure using DevOps* Perform Continuous Integration and deployment and fine-tune the way you deliver on AWS Who This Book Is For This book is for system administrators and developers who manage AWS infrastructure and environments and are planning to implement DevOps in their organizations. Those aiming for the AWS Certified DevOps Engineer certification will also find this book useful. Prior experience of operating and managing AWS environments is expected. What you will learn* Design and deploy infrastructure as code within your AWS Virtual Private Cloud* Implement Continuous Integration using AWS Services* Manage EC2 instances using SaltStack and OpsWorks* Implement Continuous Deployment using AWS CodePipeline, AWS CodeDeploy* Collect important metrics and log data to gain more insight into infrastructure and applications* Troubleshooting popular issues with some less known techniques using the AWS platform In Detail Knowing how to adopt DevOps in your organization is becoming an increasingly important skill for developers, whether you work for a start-up, an SMB, or an enterprise. This book will help you to drastically reduce the amount of time spent on development and increase the reliability of your software deployments on AWS using popular DevOps methods of automation. To start, you will get familiar with the concept of IaC and will learn to design, deploy, and maintain AWS infrastructure. Further on, you'll see how to design and deploy a Continuous Integration platform on AWS using either open source or AWS provided tools/services. Following on from the delivery part of the process, you will learn how to deploy a newly created, tested, and verified artefact to the AWS infrastructure without manual intervention. You will then find out what to consider in order to make the implementation of Configuration Management easier and more effective. Toward the end, you will get to know the tricks and tips to optimize and secure your AWS environment. By the end of the

book, you will have mastered the art of applying AWS to DevOps in your organization

[DevOps Adoption Strategies: Principles, Processes, Tools, and Trends](#) Apress
This book is an engineering reference manual that explains "How to do DevOps?". It is targeted to people and organizations that are "doing DevOps" but not satisfied with the results that they are getting. There are plenty of books that describe different aspects of DevOps and customer user stories, but up until now there has not been a book that frames DevOps as an engineering problem with a step-by-step engineering solution and a clear list of recommended engineering practices to guide implementors. The step-by-step engineering prescriptions can be followed by leaders and practitioners to understand, assess, define, implement, operationalize, and evolve DevOps for their organization. The book provides a unique collection of engineering practices and solutions for DevOps. By confining the scope of the content of the book to the level of engineering practices, the content is applicable to the widest possible range of implementations. This book was born out of the author's desire to help others do DevOps, combined with a burning personal frustration. The frustration comes from hearing leaders and practitioners say, "We think we are doing DevOps, but we are not getting the business results we had expected." Engineering DevOps describes a strategic approach, applies engineering implementation discipline, and focuses operational expertise to define and accomplish specific goals for each leg of an organization's unique DevOps journey. This book guides the reader through a journey from defining an engineering strategy for DevOps to implementing The Three Ways of DevOps maturity using engineering practices: The First Way (called "Continuous Flow") to The Second Way (called "Continuous Feedback") and finally The Third Way (called "Continuous Improvement"). This book is intended to be a guide that will continue to be relevant over time as your specific DevOps and DevOps more generally evolves.

[DevOps Professional Courseware](#) Createspace Independent Publishing Platform
DevOps for the Desperate is a hands-on, no-nonsense guide for those who land in a DevOps environment and need to get up and running quickly. This book introduces fundamental concepts software developers need to know to flourish in a modern DevOps environment including infrastructure as code, configuration management, security, containerization and orchestration, monitoring and alerting, and troubleshooting. Readers will follow along with hands-on examples to learn how to tackle common DevOps tasks. The book begins with an exploration of DevOps concepts using Vagrant and Ansible to build systems with repeatable and predictable states, including configuring a host with user-based security. Next up is a crash course on containerization, orchestration, and delivery using Docker, Kubernetes, and a CI/CD pipeline. The book concludes with a primer in monitoring and alerting with tips for troubleshooting common host and application issues. You'll learn how to: Use Ansible to manage users and groups, and enforce complex passwords Create a security policy for administrative permissions, and automate a host-based firewall Get started with Docker to containerize applications, use Kubernetes for orchestration, and deploy code using a CI/CD pipeline Build a monitoring stack, investigate common metric patterns, and trigger alerts Troubleshoot and analyze common issues and errors found on hosts

[Ansible for DevOps](#) "O'Reilly Media, Inc."

"If you're a developer trying to figure out why your application is not responding at 3 am, you need this book! This is now my go-to book when diagnosing production issues. It has saved me hours in troubleshooting complicated operations problems." -Trotter Cashion, cofounder, Mashion DevOps can help developers, QAs, and admins work together to solve Linux server problems far more rapidly, significantly improving IT performance, availability, and efficiency. To gain these benefits, however, team members need common troubleshooting skills and practices. In DevOps Troubleshooting: Linux Server Best Practices, award-winning Linux expert Kyle Rankin brings together all the standardized, repeatable techniques your team needs to stop finger-pointing, collaborate effectively, and quickly solve virtually any Linux server problem. Rankin walks you through using DevOps techniques to troubleshoot everything from boot failures and corrupt disks to lost email and downed websites. You'll master indispensable skills for diagnosing high-load systems and network problems in production environments. Rankin shows how to Master DevOps' approach to troubleshooting and proven Linux server problem-solving principles Diagnose slow servers and applications by identifying CPU, RAM, and Disk I/O bottlenecks Understand healthy boots, so you can identify failure points and fix them Solve full or corrupt disk issues that prevent disk writes Track down the sources of network problems Troubleshoot DNS, email, and other network services Isolate and diagnose Apache and Nginx Web server failures and slowdowns Solve problems with MySQL and Postgres database servers and queries Identify hardware failures—even notoriously elusive intermittent failures

Practical DevOps, Second Edition It Revolution Press

Increase profitability, elevate work culture, and exceed productivity goals through DevOps practices. More than ever, the effective management of technology is critical for business competitiveness. For decades, technology leaders have struggled to balance agility, reliability, and security. The consequences of failure have never been greater—whether it's the healthcare.gov debacle, cardholder data breaches, or missing the boat with Big Data in the cloud. And yet, high performers using DevOps principles, such as Google, Amazon, Facebook, Etsy, and Netflix, are routinely and

reliably deploying code into production hundreds, or even thousands, of times per day. Following in the footsteps of The Phoenix Project, The DevOps Handbook shows leaders how to replicate these incredible outcomes, by showing how to integrate Product Management, Development, QA, IT Operations, and Information Security to elevate your company and win in the marketplace.

[Agile Project Management with Azure DevOps](#) Packt Publishing Ltd
Understand the benefits of DevOps and continuous delivery and see how they support the agile software development process Key Features Learn how DevOps can accelerate your entire software development life cycle Improve your organization's performance to ensure the smooth production of software and services Get hands-on experience in using efficient DevOps tools to better effect Book Description DevOps is a practical field that focuses on delivering business value as efficiently as possible. DevOps encompasses all code workflows from testing environments to production environments. It stresses cooperation between different roles, and how they can work together more closely, as the roots of the word imply—Development and Operations. Practical DevOps begins with a quick refresher on DevOps and continuous delivery and quickly moves on to show you how DevOps affects software architectures. You'll create a sample enterprise Java application that you'll continue to work with through the remaining chapters. Following this, you will explore various code storage and build server options. You will then learn how to test your code with a few tools and deploy your test successfully. In addition to this, you will also see how to monitor code for any anomalies and make sure that it runs as expected. Finally, you will discover how to handle logs and keep track of the issues that affect different processes. By the end of the book, you will be familiar with all the tools needed to deploy, integrate, and deliver efficiently with DevOps. What you will learn Understand how all deployment systems fit together to form a larger system Set up and familiarize yourself with all the tools you need to be efficient with DevOps Design an application suitable for continuous deployment systems with DevOps in mind Store and manage your code effectively using Git, Gerrit, Gitlab, and more Configure a job to build a sample CRUD application Test your code using automated regression testing with Jenkins Selenium Deploy your code using tools such as Puppet, Ansible, Palletops, Chef, and Vagrant Who this book is for If you're a developer or system administrator looking to take on larger responsibilities and understand how the infrastructure that builds today's enterprises works, this is the book for you. This book will also help you greatly if you're an operations worker who would like to better support developers. You do not need any previous knowledge of DevOps to understand the concepts in this book.

[DevOps - A Business Perspective](#) Packt Publishing Ltd

Explore site reliability engineering practices and learn key Google Cloud Platform (GCP) services such as CSR, Cloud Build, Container Registry, GKE, and Cloud Operations to implement DevOps Key Features Learn GCP services for version control, building code, creating artifacts, and deploying secured containerized applications Explore Cloud Operations features such as Metrics Explorer, Logs Explorer, and debug logpoints Prepare for the certification exam using practice questions and mock tests Book Description DevOps is a set of practices that help remove barriers between developers and system administrators, and is implemented by Google through site reliability engineering (SRE). With the help of this book, you'll explore the evolution of DevOps and SRE, before delving into SRE technical practices such as SLA, SLO, SLI, and error budgets that are critical to building reliable software faster and balance new feature deployment with system reliability. You'll then explore SRE cultural practices such as incident management and being on-call, and learn the building blocks to form SRE teams. The second part of the book focuses on Google Cloud services to implement DevOps via continuous integration and continuous delivery (CI/CD). You'll learn how to add source code via Cloud Source Repositories, build code to create deployment artifacts via Cloud Build, and push it to Container Registry. Moving on, you'll understand the need for container orchestration via Kubernetes, comprehend Kubernetes essentials, apply via Google Kubernetes Engine (GKE), and secure the GKE cluster. Finally, you'll explore Cloud Operations to monitor, alert, debug, trace, and profile deployed applications. By the end of this SRE book, you'll be well-versed with the key concepts necessary for gaining Professional Cloud DevOps Engineer certification with the help of mock tests. What you will learn Categorize user journeys and explore different ways to measure SLIs Explore the four golden signals for monitoring a user-facing system Understand psychological safety along with other SRE cultural practices Create containers with build triggers and manual invocations Delve into Kubernetes workloads and potential deployment strategies Secure GKE clusters via private clusters, Binary Authorization, and shielded GKE nodes Get to grips with monitoring, Metrics Explorer, uptime checks, and alerting Discover how logs are ingested via the Cloud Logging API Who this book is for This book is for cloud system administrators and network engineers interested in resolving cloud-based operational issues. IT professionals looking to enhance their careers in administering Google Cloud services and users who want to learn about applying SRE principles and implementing DevOps in GCP will also benefit from this book. Basic knowledge of cloud computing, GCP services, and CI/CD and hands-on experience with Unix/Linux infrastructure is recommended. You'll also find this book useful if you're interested in achieving Professional Cloud DevOps Engineer certification.

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