

## Devops For Beginners Devops Software Development Method Guide For Software Developers And It Professionals

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.

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Learn to use some of the most exciting and powerful tools to deliver world-class quality software with continuous delivery and DevOps 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 Deploy top-quality software and ensure software maintenance and release management with this practical guide This course covers some of the most exciting technology available to DevOps engineers, and demonstrates multiple techniques for using them Real-world and realistic examples are provided to help you as you go about the implementation and adoption of continuous delivery and DevOps Who This Book Is For This course is for developers who want to understand how the infrastructure that builds today's enterprises works, and how to painlessly and regularly ship quality software. What You Will Learn 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 Test the code using automated regression testing with Jenkins Selenium Managing the lifecycle of hosts, from creation to ongoing management using Puppet Razor Find out how to manage, use, and work with Code in the Git version management system See what traps, pitfalls, and hurdles to look out for as you implement continuous delivery and DevOps In Detail Harness the power of DevOps to boost your skill set and make your IT organization perform better. If you're keen to employ DevOps techniques to better your software development, this course contains all you need to overcome the day-to-day complications of managing complex infrastructures the DevOps way. Start with your first module – Practical DevOps - that encompasses the entire flow from code from testing to production. Get a solid ground-level knowledge of how to monitor code for any anomalies, perform code testing, and make sure the code is running smoothly through a series of real-world exercise, and develop practical skills by creating a sample enterprise Java application. In the second module, run through a series of tailored mini-tutorials designed to give you a complete understanding of every DevOps automation technique. Create real change in the way you deliver your projects by utilizing some of the most commendable software available today. Go from your first steps of managing code in Git to configuration management in Puppet, monitoring using Sensu, and more. In the final module, get to grips with the continuous delivery techniques that will help you reduce the time and effort that goes into the delivery and support of software. This Learning Path combines some of the best that Packt has to offer in one complete, curated package. It includes content from the following Packt products: Practical DevOps by Joakim Verona DevOps Automation Cookbook by Michael Duffy Continuous Delivery and DevOps : A Quickstart Guide - Second Edition by Paul Swartout Style and approach This course is an easy to follow project based guide for all those with a keen interest in deploying world-class software using some of the most effective and remarkable technologies available.

DevOps Adoption DevOps describes a set of processes, principles as well as a culture which brings software development and operations teams together. Moreover, adopting DevOps principles and strategies allows companies and organizations of any size and maturity levels to create and improve their products at a rapid pace which usually takes more time when using the traditional software development approaches. As soon as you embrace DevOps principles, you get to create shorter development cycles with faster innovation, you can reduce software deployments rates, time to recover and rollbacks, you have better communication and collaboration as well as significantly increased efficiency of your teams and lastly you get to enjoy substantially reduced IT headcount and costs. The industry is implementing DevOps practices as everyone is eager to take advantage of these benefits. You also can fully transform your digital business with DevOps principles and bring more value to everything you and your team do. Here Is a Preview of What You'll Learn Here... What is DevOps DevOps principles compared to traditional IT concepts How DevOps is overcoming traditional Dev and Ops Why DevOps is important and its key benefits Main DevOps goals, DevOps culture and security integration How to properly build a DevOps culture Why you should invest in automation What are different DevOps success factors Advantages of speed and scale within DevOps environments What are common DevOps practices How to implement DevOps models And much, much more... Get this book NOW, embrace DevOps principles and modernize your IT environment!

Good!! If you're reading this now, it's not a Coincidence. You're interested in Learning and Mastering DevOps!!DevOps is a philosophy that endorses teamwork between development and operations team. Before the introduction of DevOps both the development and operation team worked differently. By adopting DevOps it helps companies to prevent manual deployment

procedures which ultimately helps to reduce human errors in production. As an IT professional it is crucial to know about the difference between Agile and DevOps. This book also highlights the similarities and differences between both. Agile is a process that depends upon the functionality and the non-functionality of the product while DevOps highlights upon IT infrastructure aspects. The book also highlights the DevOps lifecycle steps, which are explained in detail. Moreover, you will also find out how these DevOps engineers work and what tools they use to make sure that they can bridge the gap between the Development and Operations team. Following are some Concepts that you will learn from this book: A brief introduction to DevOps How to identify you need a DevOps for your project? Difference between DevOps and tradition Software Deployment Situations in which you should go for DevOps? Situations in which you do not opt for DevOps? Lifecycle of DevOps Differences and Similarities between DevOps and Agile Important DevOps Principles AWS Cloud DevOps How does the AWS DevOps and Infrastructure assist the developers? DevOps as a career path? Tools and Techniques for becoming a successful DevOps Common Practices to adopt to become a successful DevOps Engineer DevOps Automation Tools And many more.... This book will Guide you as a beginner to Learn and Master DevOps So what are you waiting for? Scroll up and click the orange "BUY NOW" button on the top right corner and download Now!!! You won't regret you did See you inside!!!

DevOps Handbook DevOps both as a culture and as a movement comes packed with different practices and methodologies which can bring operations and development teams together in to achieve high-quality software whenever needed making rapid deployments possible. Moreover, with DevOps practices, companies and organizations can create to further improve their products at a much faster pace than when using traditional approaches. Considering these massive benefits, it is no wonder why DevOps is gaining more and more popularity at a very rapid rate. Effective software management and development has never been as important as today especially when it comes to business competitiveness. Therefore, follow the footsteps of those high-performing companies, increase your business profitability, enjoy faster innovation and shorter development cycles, significantly reduced software deployment failures and exceed your business objectives and goals with DevOps. Here Is a Preview of What You'll Learn Here... Major software development mistakes to avoid and challenges What is software development life cycle and how it works What is DevOps, DevOps definitions and history of DevOps Agile software development, Agile practices and benefits DevOps practices, methodologies, tools and values How DevOps works and how it is implemented within companies and organizations The importance of automation, continuous integration, continuous delivery and continuous testing And much, much more... Get this book NOW, increase your business profitability and exceed your business goals and objectives with DevOps practices!

Winner of the Shingo Publication Award Accelerate your organization to win in the marketplace. How can we apply technology to drive business value? For years, we've been told that the performance of software delivery teams doesn't matter?that it can't provide a competitive advantage to our companies. Through four years of groundbreaking research to include data collected from the State of DevOps reports conducted with Puppet, Dr. Nicole Forsgren, Jez Humble, and Gene Kim set out to find a way to measure software delivery performance?and what drives it?using rigorous statistical methods. This book presents both the findings and the science behind that research, making the information accessible for readers to apply in their own organizations. Readers will discover how to measure the performance of their teams, and what capabilities they should invest in to drive higher performance. This book is ideal for management at every level.

DevOps - 2 BOOK BUNDLE!! DevOps Handbook DevOps both as a culture and as a movement comes packed with different practices and methodologies which can bring operations and development teams together in to achieve high-quality software whenever needed making rapid deployments possible. Moreover, with DevOps practices, companies and organizations can create to further improve their products at a much faster pace than when using traditional approaches. Considering these massive benefits, it is no wonder why DevOps is gaining more and more popularity at a very rapid rate. Effective software management and development has never been as important as today especially when it comes to business competitiveness. Therefore, follow the footsteps of those high-performing companies, increase your business profitability, enjoy faster innovation and shorter development cycles, significantly reduced software deployment failures and exceed your business objectives and goals with DevOps. Here Is a Preview of What You'll Learn Here... Major software development mistakes to avoid and challenges What is software development life cycle and how it works What is DevOps, DevOps definitions and history of DevOps Agile software development, Agile practices and benefits DevOps practices, methodologies, tools and values How DevOps works and how it is implemented within companies and organizations The importance of automation, continuous integration, continuous delivery and continuous testing And much, much more... DevOps Adoption DevOps describes a set of processes, principles as well as a culture which brings software development and operations teams together. Moreover, adopting DevOps principles and strategies allows companies and organizations of any size and maturity levels to create and improve their products at a rapid pace which usually takes more time when using the traditional software development approaches. As soon as you embrace DevOps principles, you get to create shorter development cycles with faster innovation, you can reduce software deployments rates, time to recover and rollbacks, you have better communication and collaboration as well as significantly increased efficiency of your teams and lastly you get to enjoy substantially reduced IT headcount and costs. The industry is implementing DevOps practices as everyone is eager to take advantage of these benefits. You also can fully transform your digital business with DevOps principles and bring more value to everything you and your team do. Here Is a Preview of What You'll Learn Here... What is DevOps? DevOps principles compared to traditional IT concepts How DevOps is overcoming traditional Dev and Ops Why DevOps is important and its key benefits Main DevOps goals, DevOps culture and security integration How to properly build a DevOps culture Why you should invest in automation What are different DevOps success factors Advantages of speed and scale within DevOps environments What are common DevOps practices How to implement DevOps models And much, much more... Get this book bundle NOW and SAVE money!

DevOps for Developers delivers a practical, thorough introduction to approaches, processes and tools to foster collaboration between software development and operations. Efforts of Agile software development often end at the transition phase from development to operations. This book covers the delivery of software, this means "the last mile", with lean practices for shipping the software to production and making it available to the end users, together with the integration of operations with earlier project phases (elaboration, construction, transition). DevOps for Developers describes how to streamline the software delivery process and improve the cycle time (that is the time from inception to delivery). It will enable you to deliver software faster, in better quality and more aligned with individual requirements and basic conditions. And above all, work that is aligned with the "DevOps"

approach makes even more fun! Provides patterns and toolchains to integrate software development and operations Delivers an one-stop shop for kick-starting with DevOps Provides guidance how to streamline the software delivery process Implement real-world DevOps and cloud deployment scenarios using Azure Repos, Azure Pipelines, and other Azure DevOps tools Key Features Improve your application development life cycle with Azure DevOps in a step-by-step manner Apply continuous integration and continuous deployment to reduce application downtime Work with real-world CI/CD scenarios curated by a team of renowned Microsoft MVPs and MCTs Book Description Developing applications for the cloud involves changing development methodologies and procedures. Continuous integration and continuous deployment (CI/CD) processes are a must today, but are often difficult to implement and adopt. Azure DevOps is a Microsoft Azure cloud service that enhances your application development life cycle and enables DevOps capabilities. Starting with a comprehensive product overview, this book helps you to understand Azure DevOps and apply DevOps techniques to your development projects. You'll find out how to adopt DevOps techniques for your development processes by using built-in Azure DevOps tools. Throughout the course of this book, you'll also discover how to manage a project with the help of project management techniques such as Agile and Scrum, and then progress toward development aspects such as source code management, build pipelines, code testing and artifacts, release pipelines, and GitHub integration. As you learn how to implement DevOps practices, this book will also provide you with real-world examples and scenarios of DevOps adoption. By the end of this DevOps book, you will have learned how to adopt and implement Azure DevOps features in your real-world development processes. What you will learn Get to grips with Azure DevOps Find out about project management with Azure Boards Understand source code management with Azure Repos Build and release pipelines Run quality tests in build pipelines Use artifacts and integrate Azure DevOps in the GitHub flow Discover real-world CI/CD scenarios with Azure DevOps Who this book is for This book is for developers, solutions architects, and DevOps engineers interested in getting started with cloud DevOps practices on Azure. Prior understanding of Azure architecture and services is necessary. Some knowledge of DevOps principles and techniques will be useful.

This is one of the books in the series of DevOps books that we have published recently. Unlike the first book, this is more advanced but still builds on the concepts introduced in the first book titled "Simple and Effective Strategies to Understand DevOps." Just like in our first book, this book will introduce the reader to advanced methods and strategies of using DevOps tools and technologies. This book will start with a brief introduction to DevOps and will explain how organizations can align themselves with implementing a DevOps approach in software development effectively. Implementation of DevOps in software development requires an efficient application of unique methods and strategies. How you choose the right DevOps Strategy, or method to apply, is critical for the development of sustainable software development projects and enhanced collaboration between Operations and Developers. In this book, DevOps methods and strategies will be categorized as follows: Implementing DevOps for optimization. Implementation of advanced DevOps methods in innovation. Effective adoption of DevOps for organizations. Management of DevOps approach in organizations. This book will help you understand advanced DevOps culture, how to apply the methodology in cloud computing and software development. Below is a list of what you will learn by the end of this book: You will understand DevOps culture and its practices. Learn how to use DevOps tools in Software Development projects. How to use advanced DevOps methodology and strategies in your company. In-depth understanding of DevOps processes. This is an advanced book that assumes you have learned the basics of DevOps from our previous book. It is meant for developers, operators, and administrators who are interested in understanding the DevOps tools of continuous integration and continuous delivery among other DevOps tools and methods. Who is this book for? DevOps is not just for the Developers and Operations team; rather, it needs all the stakeholders in the software delivery lifecycle to efficiently adopt it. DevOps is all about how they work collaboratively and communicate. Therefore, this book is meant for all team members in any firm who are stakeholders in the software delivery lifecycle; this spans from the owners of the business to software analysts, software architects, program designers, developers, testing units, Quality Assurance team, automation team, operations team, system and database administrators, documentation team, project managers and customers. This book is intended to be of benefit to all of them. Let the journey to advanced methods and strategies of using DevOps begin!

Help your organization join the DevOps revolution About This Book Helps you skill up your DevOps knowledge without a strong set of prerequisites Deliver continuously improved software by showcasing the most advanced tools and techniques Acquire a deeper insight into implementing DevOps in your organization and deliver results from day 1 Who This Book Is For This book is written for engineers and companies that want to learn the minimum set of required technologies and processes to be successful in the DevOps world. This book also targets system administrators, developers, and IT professionals who would like to employ DevOps techniques and best practices to manage IT infrastructures or would like to acquire the necessary skills needed to work in DevOps teams. What You Will Learn Master development best practices. Understand how the Agile Delivery Methodology helps you ensure accuracy and quality. Analyze branching strategies such as branch creation, merging, and synchronization. Learn to automate builds to deploy and deliver code faster and more often Explore testing frameworks and how to automate testing Learn to put specific metrics in place to measure ROI of DevOps and monitor logs and events in a system In Detail This book follows a unique approach to modern DevOps using cutting-edge tools and technologies such as Ansible, Kubernetes, and Google Cloud Platform. This book starts by explaining the organizational alignment that has to happen in every company that wants to implement DevOps in order to be effective, and the use of cloud datacenters in combination with the most advanced DevOps tools to get the best out of a small team of skilled engineers. It also delves into how to use Kubernetes to run your applications in Google Cloud Platform, minimizing the friction and hassle of maintaining a cluster but ensuring its high availability. By the end of this book, you will be able to realign teams in your company and create a Continuous Delivery pipeline with Kubernetes and Docker. With strong monitoring in place, you will also be able to react to adverse events in your system, minimizing downtime and improving the overall up-time and stability of your system. Style and approach This book takes a step-by-step practical approach to the implementation of DevOps. This book will teach you how to enable IT organizations to deliver faster and smarter through a unique approach using Code-Build-Test-Release-Configure-Monitor (CBTRCM).

Isn't it surprising to see the application development team and the operations team working together? It is definitely is, as they are always in seclusion for a very long time. But now when they have started working together, the results are even more stunning. This concept of making the development team and operations team work together was introduced by DevOps process. Besides the DevOps Foundation Courseware - English (ISBN: 9789401803595) publication you are advised to obtain the publication DevOps - A Business Perspective (ISBN: 978 940 180 372 4). DevOps enables organizations to decrease time to

market for new releases, software, or services by encouraging a collaborative approach from development and operations teams. The adoption of DevOps creates an environment where productivity is increased through the automation of processes around infrastructure and workflows. 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.

Use DevOps principles with Google Cloud Platform (GCP) to develop applications and services. This book builds chapter by chapter to a complete real-life scenario, explaining how to build, monitor, and maintain a complete application using DevOps in practice. Starting with core DevOps concepts, continuous integration, and continuous delivery, you'll cover common tools including Jenkins, Docker, and Kubernetes in the context of a real microservices application to deploy in the cloud. You will also create a monitor for your cloud and see how to use its data to prevent errors and improve the stability of the system. By the end of Pro DevOps with Google Cloud Platform, you will be able to deploy, maintain, and monitor a real application with GCP. What You Will Learn Build and deploy applications and services using DevOps on Google Cloud Platform Maintain a complete continuous integration (CI) and continuous delivery (CD) pipeline Use containerization with Docker and Kubernetes Carry out CD with GCP and Jenkins Create microservices with Jenkins, Docker, and Kubernetes Monitor your newly deployed application and its deployment and performance Set up security and manage your network with GCP Who This Book Is For Developers and software architects who want to implement DevOps in practice. Some prior programming experience is recommended as well as a basic knowledge of a Linux command-line environment.

DevOps has become a major topic for developers, testers, project managers and many others involved in building software products. Microsoft has introduced Azure DevOps as their tool for implementing DevOps practices. This book is intended to provide the reader a step-by-step, easy to follow guide to learn how Azure DevOps works in a real world project using detailed samples and visual guidance through screenshots. Therefore, the approach taken in this book is very simple and allows even beginners to follow along and get a good understanding on Azure DevOps. Rather than explaining detailed technical information, this book mainly focuses on the practical aspect of how someone new to Azure DevOps can easily get started with it. Therefore, you will see theoretical explanations only when needed to explain a certain scenario. The main focus is to complete a specific task using Azure DevOps. Following areas are discussed in this edition of the book. Azure DevOps organization and settings Creating a project and its settings Azure Boards explained using Basic work item process Azure Repos explained using a simple node application Automate the build, test and deployment process using CI/CD pipelines Who this book is intended for? This book will be a useful handbook for developers, project managers, release managers, stakeholders, testers who are beginners to Azure DevOps and are not interested in reading detailed technical descriptions but rather would like to learn things by doing. Even advanced users of Azure DevOps can benefit from this book.

Are you ready to take your business to a higher level? Start to learn DevOps In the idea of modernizing IT Process, creating faster and agile procedures that allow achieving better results in a quicker way, you MUST Learn DevOps, a practical set of activities that brings communication, collaboration and integration between Developers and Operations. DevOps elevates work culture increasing profitability and productivity. It is used by the most important companies in the world but at the same time, it's applicable to every business. Learn the fundamentals concept of DevOps in order to run faster your business. Here some questions that you will find the answer: What is DevOps methodology? How is it implementable into a company? What are the benefits that it is able to generate? Understand which drivers generate performance and how to implement them in your working team is the real value of DevOps: ensure that your company has the right strategies to perform in a strong way in every situation. If you are looking for a complete guide in DevOps in a just few hours, this book is for you. It has been thought for beginners that studying different approach software development but also for manager and entrepreneurs that recognize these important changes in the business management and organization. What's Inside This Book Introduction To DevOps Capabilities Of DevOps The Way Cloud Accelerate DevOps Solving Challenges With DevOps Agile, Continuous Delivery, and the Three Way The Principles of Flow The Principles of Feedback The Principles Of Continual Learning And Experimentation Selecting Which Value Stream to Start With Understanding the Work in Our Value Stream, Making it Visible, and Expanding it Across the Organization In simple words, after reading this book, you should be able to start working on your project with the DevOps vision.

Hands-On Security in DevOps explores how the techniques of DevOps and Security should be applied together to make cloud services safer. By the end of this book, readers will be ready to build security controls at all layers, monitor and respond to attacks on cloud services, and add security organization-wide through risk management and training.

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.

Develop faster with DevOps DevOps embraces a culture of unifying the creation and distribution of technology in a way that allows for faster release cycles and more resource-efficient product updating. DevOps For Dummies provides a guidebook for those on the development or operations side in need of a primer on this way of working. Inside, DevOps evangelist Emily Freeman provides a roadmap for adopting the management and technology tools, as well as the culture changes, needed to dive head-first into DevOps. Identify your organization's needs Create a DevOps framework Change your organizational structure Manage projects in the DevOps world DevOps For Dummies is essential reading for developers and operations professionals in the early stages of DevOps adoption.

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

Deploy web applications on Azure using DevOps tools. This book gives solutions to real-world Cloud deployment scenarios which will enable you to become adept in DevOps work for Azure. You'll start by seeing an overview of DevOps for Azure deployments where you will also survey the available tools, including Octopus Deploy and TeamCity. Here, you will learn how to use TeamCity as a CI tool and Octopus Deploy as release-management and CD software to get your package deployed on Azure Web Application. Next, the authors demonstrate using the Microsoft Visual Studio Team Services (VSTS) integrated developer platform. Finally, you will go through some real-world scenarios using DevOps tools to deploy web applications on Azure. To do this, you will create resources in Azure and integrate with an open source buildout. After reading this book, you will be ready to use various tools in a DevOps environment to support an Azure deployment. What You Will Learn Carry out a survey of DevOps tools Build a DevOps solution using standalone DevOps tools – TeamCity and Octopus Deploy Use an integrated DevOps platform – VSTS Build out an Azure deployment using open source code and VSTS Who This Book Is For Developers and release engineers. Also, project managers will find it useful to understand the workflow in DevOps.

DevOps is on everyone's lips. The combination of agile development approaches such as Scrum, Kanban, Extreme Programming or others with future-proof service management approaches seems to be the guarantee for success for modern IT organizations. Is this just the next fad in IT or is there actual optimization potential here and if so, what are the prerequisites and framework conditions that are important for this? The author, a proven expert for agile methods and DevOps, shows where DevOps can be used beneficially and which techniques and methods are target-oriented. This includes approaches such as Continuous Delivery as well as the concept of anti-fragility or the integration of approaches from Lean Thinking. This book is aimed at newcomers to the subject who want to gain a good overview and a basis for decision-making with little effort.

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 For Beginners DevOps Software Development Method Guide For Software Developers and IT Professionals

Learn to design, implement, measure, and improve DevOps programs that are tailored to your organization. This concise guide assists leaders who are accountable for the rapid development of high-quality software applications. In DevOps for Digital Leaders, deep collective experience on both sides of the dev-ops divide informs the global thought leadership and penetrating insights of the authors, all three of whom are cross-portfolio DevOps leaders at CA Technologies. Aruna Ravichandran, Kieran Taylor, and Peter Waterhouse analyze the organizational benefits, costs, freedoms, and constraints of DevOps. They chart the coordinated strategy of organizational change, metrics, lean thinking, and investment that an enterprise must undertake to realize the full potential of DevOps and reach the sweet spot where accelerating code deployments drive increasing customer satisfaction, revenue, and profitability. Digital leaders are charged to bridge the dev-ops disconnect if their organizations are to survive and flourish in a business world increasingly differentiated by the degree to which dynamic application software development harmonizes with operational resilience and reliability. This short book applies the DevOps perspective to the competitive challenge, faced by every high-performance IT organization today, of integrating and automating open source, cloud, and enterprise tools, processes, and techniques across the software development life cycle from requirements to release. What You Will Learn: Remove dependencies and constraints so that parallel practices can accelerate the development of defect-free software Automate continuous delivery across the software life cycle to eliminate release bottlenecks, manual labor waste, and technical debt accumulation Generate virtualized production-style testing of applications through real-time behavioral analytics Adopt agile practices so operations teams can support developer productivity with automated feedback, streamline infrastructure monitoring, spot and resolve operations issues before they impact production, and improve customer experience Identify the DevOps metrics appropriate to your organization and integrate DevOps with your existing best practices and investment Who This Book Is For: IT leaders in large companies and government agencies who have any level of responsibility for the rapid development of high-quality software applications. The secondary readership is members of development and operations teams, security professionals, and service managers.

!! Special 2-In-1 Deal - Buy The Paperback Version And Get The Ebook For FREE !! DevOps Handbook DevOps both as a culture and as a movement comes packed with different practices and methodologies which can bring operations and development teams together in to achieve high-quality software whenever needed making rapid deployments possible. Moreover, with DevOps practices, companies and organizations can create to further improve their products at a much faster pace than when using traditional approaches. Considering these massive benefits, it is no wonder why DevOps is gaining more and more popularity at a very rapid rate. Effective software management and development has never been as important as today especially when it comes to business competitiveness. Therefore, follow the footsteps of those high-performing companies, increase your business profitability, enjoy faster innovation and shorter development cycles, significantly reduced software deployment failures and exceed your business objectives and goals with DevOps. Here Is a Preview of What You'll Learn Here... Major software development mistakes to avoid and challenges What is software development life cycle and how it works What is DevOps, DevOps definitions and history of DevOps Agile software development, Agile practices and benefits DevOps practices, methodologies, tools and values How DevOps works and how it is implemented within companies and organizations The importance of automation, continuous integration, continuous delivery and continuous testing And much, much more... Get this book NOW, increase your business profitability and exceed your business goals and objectives with DevOps practices!

Boost your organization's growth by incorporating networking in the DevOps culture About This Book Implement networking fundamentals to

the DevOps culture with ease, improving your organization's stability Leverage various open source tools such as Puppet and Ansible in order to automate your network This step-by-step learning guide collaborating the functions of developers and network administrators Who This Book Is For The book is aimed for Network Engineers, Developers, IT operations and System admins who are planning to incorporate Networking in DevOps culture and have no knowledge about it. What You Will Learn Learn about public and private cloud networking using AWS and OpenStack as examples Explore strategies that can be used by engineers or managers to initiate the cultural changes required to enable the automation of network functions Learn about SDN and how an API-driven approach to networking can help solve common networking problems Get the hang of configuration management tools, such as Ansible and Jenkins, that can be used to orchestrate and configure network devices Setup continuous integration, delivery, and deployment pipelines for network functions Create test environments for network changes Understand how load balancing is becoming more software defined with the emergence of microservice applications In Detail Frustrated that your company's network changes are still a manual set of activities that slow developers down? It doesn't need to be that way any longer, as this book will help your company and network teams embrace DevOps and continuous delivery approaches, enabling them to automate all network functions. This book aims to show readers network automation processes they could implement in their organizations. It will teach you the fundamentals of DevOps in networking and how to improve DevOps processes and workflows by providing automation in your network. You will be exposed to various networking strategies that are stopping your organization from scaling new projects quickly. You will see how SDN and APIs are influencing DevOps transformations, which will in turn help you improve the scalability and efficiency of your organizations networks operations. You will also find out how to leverage various configuration management tools such as Ansible, to automate your network. The book will also look at containers and the impact they are having on networking as well as looking at how automation impacts network security in a software-defined network. Style and approach This will be a comprehensive, learning guide for teaching our readers how networking can be leveraged to improve the DevOps culture for any organization.

Well, in the last four months, I have been involved in the recruitment process of various DevOps related jobs in my current project. I have come across multiple Entry Level and Mid-Level career professionals inquisitive about expectations of the role and how their earlier experience would contribute to the DevOps role.

Much has changed in technology over the past decade. Data is hot, the cloud is ubiquitous, and many organizations need some form of automation. Throughout these transformations, Python has become one of the most popular languages in the world. This practical resource shows you how to use Python for everyday Linux systems administration tasks with today's most useful DevOps tools, including Docker, Kubernetes, and Terraform. Learning how to interact and automate with Linux is essential for millions of professionals. Python makes it much easier. With this book, you'll learn how to develop software and solve problems using containers, as well as how to monitor, instrument, load-test, and operationalize your software. Looking for effective ways to "get stuff done" in Python? This is your guide. Python foundations, including a brief introduction to the language How to automate text, write command-line tools, and automate the filesystem Linux utilities, package management, build systems, monitoring and instrumentation, and automated testing Cloud computing, infrastructure as code, Kubernetes, and serverless Machine learning operations and data engineering from a DevOps perspective Building, deploying, and operationalizing a machine learning project

Use this book as your one-stop shop for architecting a world-class DevOps environment with Microsoft technologies. .NET DevOps for Azure is a synthesis of practices, tools, and process that, together, can equip a software organization to move fast and deliver the highest quality software. The book begins by discussing the most common challenges faced by developers in DevOps today and offers options and proven solutions on how to implement DevOps for your team. Daily, millions of developers use .NET to build and operate mission-critical software systems for organizations around the world. While the marketplace has scores of information about the technology, it is completely up to you to put together all the blocks in the right way for your environment. This book provides you with a model to build on. The relevant principles are covered first along with how to implement that part of the environment. And while variances in tools, language, or requirements will change the needed implementation, the DevOps model is the architecture for the working environment for your team. You can modify parts of the model to customize it to your enterprise, but the architecture will enable all of your teams and applications to accelerate in performance. What You Will Learn Get your .NET applications into a DevOps environment in Azure Analyze and address the part of your DevOps process that causes delays or bottlenecks Track code using Azure Repos and conduct acceptance tests Apply the rules for segmenting applications into Git repositories Understand the different types of builds and when to use each Know how to think about code validation in your DevOps environment Provision and configure environments; deploy release candidates across the environments in Azure Monitor and support software that has been deployed to a production environment Who This Book Is For .NET Developers who are using or want to use DevOps in Azure but don't know where to begin

DevOps has been one of the hottest IT trends in the past several years. In fact, there are plenty of success stories which testify to DevOps effectiveness with software developments for any size of organization, IT levels and any industry around the globe. By embracing DevOps strategies and practices, organizations and companies can easily achieve a rapid, streamlined production at every enterprise scale. It should be noted that every enterprise comes with different capabilities, unique needs, challenges, and limitations, but when utilizing valuable DevOps strategies, every company, no matter its size, can greatly benefit. In fact, the major DevOps paradigm can easily revolutionize the entire IT enterprise by its high-value systems and applications, by its great velocity and agility. As companies and organizations adopt those necessary DevOps practices, those automation tools as well as different cultural and organizational changes, they can definitely achieve more and better. DevOps provides: More rapid, streamlined production and speed. Focus on both quality and speed. Speed never comes at the expense of the best quality. DevOps practices also teach us how to keep different teams working together towards the same business goals and objectives always lined up. Moreover, adopting DevOps comes with certain challenges as well, but with the book, you will learn how to easily and less painfully overcome them. Once you complete the book, you will be able to stay ahead of your competition while keeping your risks, costs, and quality under control. In this book you will learn.... Its practices and its amazing impact on both small and large IT organizations. How to adopt DevOps to your business. How to achieve high-value optimization and innovation with both low risk and low cost. How to exceed those traditional business objectives and business goals. How to properly implement DevOps practices in both large and small-scale IT environments. How to get your company or organization ahead of your competition as you slip your production directly into the fast line innovating. How to get ahead of your competition. DevOps includes tools, some cultural philosophies, and practices. These combinations are used in order to increase a company's ability to deliver specific services and applications at high velocity. In fact, DevOps makes it possible for companies to evolve and improve their products at a much faster pace than those organizations and companies which use traditional infrastructure management and traditional software development. This speed enables these organizations to better serve and compete more effectively in the overall market. In other words, when you learn to deploy Devops you are faster, more efficient and will have happy, long term customers. So what are you waiting for? Click the "BUY NOW" button today to set your company apart from your competition.

The First Complete Guide to DevOps for Software Architects DevOps promises to accelerate the release of new software features and improve monitoring of systems in production, but its crucial implications for software architects and architecture are often ignored. In DevOps: A Software Architect's Perspective, three leading architects address these issues head-on. The authors review decisions software architects must make in order to achieve DevOps' goals and clarify how other DevOps participants are

likely to impact the architect's work. They also provide the organizational, technical, and operational context needed to deploy DevOps more efficiently, and review DevOps' impact on each development phase. The authors address cross-cutting concerns that link multiple functions, offering practical insights into compliance, performance, reliability, repeatability, and security. This guide demonstrates the authors' ideas in action with three real-world case studies: datacenter replication for business continuity, management of a continuous deployment pipeline, and migration to a microservice architecture. Comprehensive coverage includes

- Why DevOps can require major changes in both system architecture and IT roles
- How virtualization and the cloud can enable DevOps practices
- Integrating operations and its service lifecycle into DevOps
- Designing new systems to work well with DevOps practices
- Integrating DevOps with agile methods and TDD
- Handling failure detection, upgrade planning, and other key issues
- Managing consistency issues arising from DevOps' independent deployment models
- Integrating security controls, roles, and audits into DevOps
- Preparing a business plan for DevOps adoption, rollout, and measurement

Leading the Transformation is executive guide, providing a clear framework for improving development and delivery. Instead of the traditional Agile and DevOps approaches that focus on improving the effectiveness of teams, this book targets the coordination of work across teams in large organizations—an improvement that executives are uniquely positioned to lead.

Python for DevOps shows you how to harness Python for everyday Linux systems administration tasks, as well as today's most useful devops tools, including Docker, Kubernetes, and Terraform. Embrace automation and you'll never look at a boring task the same way again.

Have you been looking for a way to boost your skills and become a master in DevOps for your business or career in software development but lack an excellent, high-quality guide to assist you get there? And are you looking for a guide that is simple, assuring and easy to follow? If you've answered YES, keep reading... You Are About To Discover The Ins And Outs Of Dev-Ops, Including How To Leverage Its Power To Your Advantage In Your Business Or Career! It goes without saying that DevOps is one of the greatest inventions in software development. It came to satisfy a need to get away from the traditional software design for efficiency, collaboration and productivity in development processes, and by extension to boost business growth. Did you know that businesses that adopt DevOps enjoy up to 60% more revenue rates and profit than their reticent counterparts? Unfortunately, great as it is, DevOps remains one of the most misunderstood concepts- even by tutors across the world! Similarly, for someone who's just getting into the software development scene or someone wh0 has drowned in the "Waterfall" methodology a couple of times before, it may seem like something a little complex or one that requires some skill, or lots of effort and time to master. If you can relate, you must have wondered: What's DevOps all about, and is there a way to learn it quickly? What does DevOps entail? How exactly would I benefit from learning DevOps? How and where do I get started? Is DevOps agile? How does it work? So if such questions have been keeping you from making the next important step in your career or business with DevOps, then this simple, clear and straightforward guide is here for you. With it, you'll learn: What DevOps is and why you need it The features of DevOps architecture The potential benefits and risks of using DevOps What you need to know about the DevOps lifecycle The ins and outs of the DevOps architecture The workflow and principles of DevOps The DevOps tools you need to know and use How DevOps automation works Who DevOps engineers are, and the roles they play The methodologies and pipelines of DevOps you need to familiarize yourself with The DevOps Amazon Web Services The tools and tutorials for DevOps, including their features and benefits How to install GIT on Mac, Linux and Windows ...And much more! Do you prefer practical guides that you can implement as you go (not ones that are heavy on theory- that require taking loads of caffeine to complete)? Do you want a beginners' book that is exciting to follow and well-structured for quick comprehension? Then don't let this one slip away. Even if this is your first time actually wanting to learn DevOps, this book will hold you by the hand until you feel confident about it! Don't wait... Scroll up and click Buy Now With 1-Click or Buy Now to get started!

Scale and maintain outstanding performance in your AWS-based infrastructure using DevOps principles Key Features Implement continuous integration and continuous deployment pipelines on AWS Gain insight from an expert who has worked with Silicon Valley's most high-profile companies Implement DevOps principles to take full advantage of the AWS stack and services Book Description The DevOps movement has transformed the way modern tech companies work. Amazon Web Services (AWS), which has been at the forefront of the cloud computing revolution, has also been a key contributor to the DevOps movement, creating a huge range of managed services that help you implement DevOps principles. Effective DevOps with AWS, Second Edition will help you to understand how the most successful tech start-ups launch and scale their services on AWS, and will teach you how you can do the same. This book explains how to treat infrastructure as code, meaning you can bring resources online and offline as easily as you control your software. You will also build a continuous integration and continuous deployment pipeline to keep your app up to date. Once you have gotten to grips will all this, we'll move on to how to scale your applications to offer maximum performance to users even when traffic spikes, by using the latest technologies, such as containers. In addition to this, you'll get insights into monitoring and alerting, so you can make sure your users have the best experience when using your service. In the concluding chapters, we'll cover inbuilt AWS tools such as CodeDeploy and CloudFormation, which are used by many AWS administrators to perform DevOps. By the end of this book, you'll have learned how to ensure the security of your platform and data, using the latest and most prominent AWS tools. What you will learn Implement automatic AWS instance provisioning using CloudFormation Deploy your application on a provisioned infrastructure with Ansible Manage infrastructure using Terraform Build and deploy a CI/CD pipeline with Automated Testing on AWS Understand the container journey for a CI/CD pipeline using AWS ECS Monitor and secure your AWS environment Who this book is for Effective DevOps with AWS is for you if you are a developer, DevOps engineer, or you work in a team which wants to build and use AWS for software infrastructure. Basic computer science knowledge is required to get the most out of this book.

This book is an exploration of DevOps (Developer Operations). It begins by explaining to the user what DevOps is. As a reader, you will come to understand the importance of DevOps in software development processes. The process of setting up a Linux web server to run on an android platform has been explored in detail so that you will understand how to do it. The process of apps made in Ruby has been complex for a long time. However, a tool named Ansible can help you do this much more easily. This book explores this by guiding you in how to install your Ruby app with Ansible. Software apps are usually released in versions. Once a particular update has been made to the software, the version is changed to a higher one. In this book, you will be guided on how to control these versions and you will be shown how to change from one version to another. The process of updating software, which may be difficult on the part of the development team, will also be explored. The process of continuous integration is essential in agile software development and there are several tools that can help you with this as a software development team. However,

amongst the available tools, Jenkins has been found to be the best tool for this. This book guides you on how to use Jenkins for continuous integration of your software. This book will also demonstrate how to prepare your Ubuntu box before deploying it, as well as how to store tree data structures when working with MongoDB, a NoSQL database. The following topics are discussed in this book: - What is DevOps? - How to Run a Linux Web Server on Android Device - Deployment of a Ruby App with Ansible - A Gift-Flow Releasing Model - Setting Up and Configuring Jenkins for the Team - How to Prepare and Secure Ubuntu Box for Deployment - Enabling Virtualization in ESXi virtual machine - Securing Deployment Secrets with vault - Tree Structures and MongoDB

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