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

Eventually, you will completely discover a supplementary experience and finishing by spending more cash. still when? get you resign yourself to that you require to acquire those all needs like having significantly cash? Why dont you attempt to acquire something basic in the beginning? Thats something that will lead you to comprehend even more just about the globe, experience, some places, with history, amusement, and a lot more?

It is your totally own grow old to take steps reviewing habit. in the midst of guides you could enjoy now is **Devops For Beginners Devops Software Development Method Guide For Software Developers And It Professionals** below.

Software Configuration Management Patterns - Steve Berczuk 2020-03-02

The DevOps Adoption Playbook - Sanjeev Sharma 2017-02-28
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.

DevOps for Developers - Michael Hüttermann 2012-09-13
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

DevOps For Beginners - Liam Foster 2017-07-20

DevOps For Beginners - Joseph Joyner 2015-10-21
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.

The DevOps Engineer's Career Guide - Stephen Fleming 2019-02-05
Hello! How are you and how is your Continuous Improvement journey going on? Are there any new skills that you want to acquire this year? My earlier books were on the following topics: DevOps, Microservices, and Kubernetes & Site Reliability Engineering. In the last four months, I have been heavily 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. Also, I have received several emails from readers asking how to switch from their existing roles (development, sys admin, etc.). Based on the interactions, I have included "DevOps Engineer" related queries in the below categories and in this book, I will give you complete information about the position, career path and skill set required. The main queries were the following: Why DevOps? What are the job duties and day-to-day activities of a DevOps Engineer? What did DevOps engineers do before DevOps? What technical and soft skills are required to be an expert-level DevOps Engineer? What are some standard tools a DevOps engineer uses? What are other similar roles from where one can make the transition to the DevOps world? What are the Certifications/Courses one can do to become a DevOps Engineer? How can I get DevOps interviews with top companies? What are the average Salary, companies to work for, and designations/roles? How is the career path of a "DevOps Engineer"? How is the career advancement of a DevOps engineer? The book covers most of this information. Over the course of the book, you will gather information on what DevOps is, and how you can use it to improve your processes. You will also identify the different roles that are linked to DevOps. If you are keen on becoming a DevOps engineer, the last few chapters include information on what skills you need to develop and what path you need to choose. Also, the last chapter contains sample interview questions, which are the most common ones asked during a DevOps interview. Overall, this book is aimed at professionals looking for DevOps role overview in limited timeframe. If you have to connect the dots regarding your existing experience, credentials and its fitment/relationship with the DevOps role, it would provide you much needed clarity. It also talks about other similar and related roles and its relationship with DevOps role. Also, if you are part of Project Management Team or Business Development Team or recruitment team (HR) this book will provide you required information about the DevOps role. The Continuous Delivery is here to stay and evolve. The nomenclature would change; new buzzwords would come and go. So, if you are into this space, adapt to it and make it your growth engine. Cheers!

DevOps for Airborne Software - Wanja Zaeske 2022-07-27
This Springer Brief presents a selection of tools and techniques which either enable or improve the use of DevOps for airborne software engineering. They are evaluated against the unique challenges of the aviation industry such as safety and airworthiness, and exercised using a demonstrator in order to gather first experience. The book is structured as follows: after a short introduction to the main topics of the work in chapter 1, chapter 2 provides more information on the tools, techniques, software and standards required

to implement the subsequently presented ideas. In particular, the development practice BDD, the relation between DevOps, CI & CD and both the Rust & the Nix programming language are introduced. In chapter 3 the authors explain and justify their ideas towards advancing the state of the art, mapping the aforementioned tools and techniques to the DevOps Cycle while considering aspects of Do-178C. Next, in chapter 4 the experiences gathered while implementing a demonstrator using the tools and techniques are described. Eventually, chapter 5 briefly summarizes the findings and presents a compilation of open points and missing pieces which are yet to be resolved. The book targets three different reader groups. The first one are development managers from the aerospace industry who need to see examples and experience reports for the application of DevOps for airborne software. The second group are investigators in the safety-critical embedded systems domain who look for benchmarks at various application domains. And the third group are lecturers who offer graduate level software engineering courses for safety-critical software engineering.

Devops for Beginners - David Johnson 2016-11-18
This book is an exploration of DevOps (Developer Operations). It beings 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

What is DevOps? - Mike Loukides 2012-06-05
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.

DevOps on the Microsoft Stack - Wouter de Kort 2016-04-29
This book tells you everything you need to know to help your organization implement DevOps on the Microsoft platform. You will learn how to use Visual Studio, Visual Studio Team Services, and Azure to implement a complete DevOps process in your company. You will learn about Agile Project Management, Continuous Integration, Continuous Delivery, Technical Debt Management, Automatic Testing and Monitoring, and see how all these areas fit together. DevOps is important for organizations that want to make the best use of their resources and avoid costly mistakes. Teams that embrace DevOps deploy code

up to 30 times more frequently than their competition and less than 50% of their deployments fail according to Puppet Labs State of DevOps survey. DevOps on the Microsoft Stack shows you how to help your organization implement DevOps, covering the tooling they will need and how to make everything work together while following best practices. The focus is not only on technology but also on the cultural issues that teams will face when implementing DevOps. The author's goal is to not only show you which tooling there is but help you to successfully use everything together to implement DevOps in your projects and organization. In this book, you'll learn: What DevOps is and how it can help development teams How to use Visual Studio, Visual Studio Team Services, and Azure to setup a DevOps process How to introduce DevOps to your organization and how to overcome problems

DevOps Tools for Java Developers - Stephen Chin 2022-04-15
With the rise of DevOps, low-cost cloud computing, and container technologies, the way Java developers approach development today has changed dramatically. This practical guide helps you take advantage of microservices, serverless, and cloud native technologies using the latest DevOps techniques to simplify your build process and create hyperproductive teams. Stephen Chin, Melissa McKay, Ixchel Ruiz, and Baruch Sadogursky from JFrog help you evaluate an array of options. The list includes source control with Git, build declaration with Maven and Gradle, CI/CD with CircleCI, package management with Artifactory, containerization with Docker and Kubernetes, and much more. Whether you're building applications with Jakarta EE, Spring Boot, Dropwizard, MicroProfile, Micronaut, or Quarkus, this comprehensive guide has you covered. Explore software lifecycle best practices Use DevSecOps methodologies to facilitate software development and delivery Understand the business value of DevSecOps best practices Manage and secure software dependencies Develop and deploy applications using containers and cloud native technologies Manage and administrate source control repositories and development processes Use automation to set up and administer build pipelines Identify common deployment patterns and antipatterns Maintain and monitor software after deployment

Agile Application Lifecycle Management - Bob Aiello 2016-06-01
Integrate Agile ALM and DevOps to Build Better Software and Systems at Lower Cost Agile Application Lifecycle Management (ALM) is a comprehensive development lifecycle that embodies essential Agile principles and guides all activities needed to deliver successful software or systems. Agile ALM embodies Agile Configuration Management (CM) and much more. Flexible and robust, it offers "just enough process" to get the job done and leverages DevOps to enhance interactions among all participants. Agile Application Lifecycle Management offers practical advice and strategies for implementing Agile ALM in your complex environment. Leading experts Bob Aiello and Leslie Sachs show how to fully leverage Agile benefits without sacrificing structure, traceability, or repeatability. You'll find realistic guidance for managing source code, builds, environments, change control, releases, and more. The authors help you support Agile in organizations that maintain traditional practices; conventional ALM systems; or siloed, non-Agile teams. They also show how to scale Agile ALM to large or distributed teams, and to environments from cloud to mainframe. Coverage includes Understanding key concepts underlying modern application and system lifecycles Creating your best processes for developing your most complex software and systems Automating build engineering, continuous integration, and continuous delivery/deployment Enforcing Agile ALM controls without compromising productivity Creating effective IT operations that align with Agile ALM processes Gaining more value from testing and retrospectives Making ALM work in the cloud, and across the enterprise Preparing for the future of Agile ALM Today, you need maximum control, quality, and productivity, and this guide will help you achieve those by using Agile ALM, CM, and DevOps together.

Effective DevOps - Jennifer Davis 2016-05-30
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

DevOps Overture - Shawn D Doyle 2020-02-14
DevOps Overture is an introduction to DevOps processes and culture. With an overview of software development methodologies before DevOps and the problems associated with those systems. It then explains what DevOps is and how it resolves these problems. Finally, it offers advice for a career in DevOps and warns of common pitfalls to avoid.

Software Engineering Aspects of Continuous Development and New Paradigms of Software Production and Deployment - Jean-Michel Bruel 2019-01-18
This book constitutes revised selected papers from the First International Workshop on Software Engineering Aspects of Continuous Development and New Paradigms of Software Production and Deployment, DEVOPS 2018, hled at the hateau de Villebrumier, France, in March 2018. The 17 papers presented in this volume were carefully reviewed and selected from 23 submissions. They cover a wide range of problems arising from Devops and related approaches, current tools, rapid development-deployment processes, effects on team performance, analytics, trustworthiness, microservices and related topics.

.NET DevOps for Azure - Jeffrey Palermo 2019-10-21
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 AzureAnalyze and address the part of your DevOps process that causes delays or bottlenecksTrack code using Azure Repos and conduct acceptance testsApply the rules for segmenting applications into Git repositoriesUnderstand the different types of builds and when to use eachKnow how to think about code validation in your DevOps environmentProvision and configure environments; deploy release candidates across the environments in AzureMonitor 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

Leading the Transformation - Gary Gruver 2015
"Software is becoming more and more important across a broad range of industries, yet most technology executives struggle to deliver software improvements their businesses require. Leading-edge companies like Amazon and Google are applying DevOps and Agile principles to deliver large software projects faster than anyone thought possible. But most executives don't understand how to transform their current legacy systems and processes to scale these principles across their organizations. Leading the Transformation is an 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."--Provided by publisher.

Engineering DevOps - Marc Hornbeek 2019-12-06
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.

The Phoenix Project - Gene Kim 2018-02-06
Over a half-million sold! The sequel, The Unicorn Project, is coming Nov 26 "Every person involved in a failed IT project should be forced to read this book."—TIM O'REILLY, Founder & CEO of O'Reilly Media "The Phoenix Project is a must read for business and IT executives who are struggling with the growing complexity of IT."—JIM WHITEHURST, President and CEO, Red Hat, Inc. Five years after this sleeper hit took on the world of IT and flipped it on it's head, the 5th Anniversary Edition of The Phoenix Project continues to guide IT in the DevOps revolution. In this newly updated and expanded edition of the bestselling The Phoenix Project, co-author Gene Kim includes a new afterword and a deeper delve into the Three Ways as described in The DevOps Handbook. Bill, an IT manager at Parts Unlimited, has been tasked with taking on a project critical to the future of the business, code named Phoenix Project. But the project is massively over budget and behind schedule. The CEO demands Bill must fix the mess in ninety days or else Bill's entire department will be outsourced. With the help of a prospective board member and his mysterious philosophy of The Three Ways, Bill starts to see that IT work has more in common with a manufacturing plant work than he ever imagined. With the clock ticking, Bill must organize work flow streamline interdepartmental communications, and effectively serve the other business functions at Parts Unlimited. In a fast-paced and entertaining style, three luminaries of the DevOps movement deliver a story that anyone who works in IT will recognize. Readers will not only learn how to improve their own IT organizations, they'll never view IT the same way again. "This book is a gripping read that captures brilliantly the dilemmas that face companies which depend on IT, and offers real-world solutions."—JEZ HUMBLE, Co-author of Continuous Delivery, Lean Enterprise, Accelerate, and The DevOps Handbook ———— "I'm delighted at how The Phoenix Project has reshaped so many conversations in technology. My goal in writing The Unicorn Project was to explore and reveal the necessary but invisible structures required to make developers (and all engineers) productive, and reveal the devastating effects of technical debt and complexity. I hope this book can create common ground for technology and business leaders to leave the past behind, and co-create a better future together."—Gene Kim, November 2019

Agile Project Management with Azure DevOps - Joachim Rossberg 2019-04-27
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.

DevOps For Beginners - Craig Berg 2020-06-12
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!

Learning DevOps - Mikael Krief 2019-10-25
Simplify your DevOps roles with DevOps tools and techniques Key FeaturesLearn to utilize business resources effectively to increase productivity and collaborationLeverage 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 downtimeBook 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 learnBecome well versed with DevOps culture and its practicesUse Terraform and Packer for cloud infrastructure provisioningImplement Ansible for infrastructure configurationUse basic Git commands and understand the Git flow processBuild a DevOps pipeline with Jenkins, Azure Pipelines, and GitLab CIContainerize your applications with Docker and KubernetesCheck application quality with SonarQube and PostmanProtect DevOps processes and applications using DevSecOps toolsWho 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.

Accelerate - Nicole Forsgren PhD 2018-03-27
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 - Steven Branson 2019-12-13
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.

Continuous Delivery - Jez Humble 2010-07-27
Winner of the 2011 Jolt Excellence Award! Getting software released to users is often a painful, risky, and time-consuming process. This groundbreaking new book sets out the principles and technical practices that enable rapid, incremental delivery of high quality, valuable new functionality to users. Through automation

of the build, deployment, and testing process, and improved collaboration between developers, testers, and operations, delivery teams can get changes released in a matter of hours— sometimes even minutes–no matter what the size of a project or the complexity of its code base. Jez Humble and David Farley begin by presenting the foundations of a rapid, reliable, low-risk delivery process. Next, they introduce the "deployment pipeline," an automated process for managing all changes, from check-in to release. Finally, they discuss the "ecosystem" needed to support continuous delivery, from infrastructure, data and configuration management to governance. The authors introduce state-of-the-art techniques, including automated infrastructure management and data migration, and the use of virtualization. For each, they review key issues, identify best practices, and demonstrate how to mitigate risks. Coverage includes • Automating all facets of building, integrating, testing, and deploying software • Implementing deployment pipelines at team and organizational levels • Improving collaboration between developers, testers, and operations • Developing features incrementally on large and distributed teams • Implementing an effective configuration management strategy • Automating acceptance testing, from analysis to implementation • Testing capacity and other non-functional requirements • Implementing continuous deployment and zero-downtime releases • Managing infrastructure, data, components and dependencies • Navigating risk management, compliance, and auditing Whether you're a developer, systems administrator, tester, or manager, this book will help your organization move from idea to release faster than ever—so you can deliver value to your business rapidly and reliably.

DevOps for Developers - Michael Httermann 2012-10-24
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

The DevOps Handbook - Gene Kim 2016-10-06
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.

DevOps For Dummies - Emily Freeman 2019-08-20
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.

Future Intent-Based Networking - Mikhailo Klymash 2021-12-09

So-called Intent-Based Networking (IBN) is founded on well-known SDN (Software-Defined Networking) and represents one of the most important emerging network infrastructure opportunities. The IBN is the beginning of a new era in the history of networking, where the network itself translates business intentions into appropriate network configurations for all devices. This minimizes manual effort, provides an additional layer of network monitoring, and provides the ability to perform network analytics and take full advantage of machine learning. The centralized, software-defined solution provides process automation and proactive problem solving as well as centralized management of the network infrastructure. With software-based network management, many operations can be performed automatically using intelligent control algorithms (artificial intelligence and machine learning). As a result, network operation costs, application response times and energy consumption are reduced, network reliability and performance are improved, network security and flexibility are enhanced. This will be a benefit for existing networks as well as evolved LTE-based mobile networks, emerging Internet of Things (IoT), Cloud systems, and soon for the future 5G/6G networks. The future networks will reach a whole new level of self-awareness, self-configuration, self-optimization, self-recovery and self-protection. This volume consists of 28 chapters, based on recent research on IBN.The volume is a collection of the most important research for the future intent-based networking deployment provided by different groups of researchers from Ukraine, Germany, Slovak Republic, Switzerland, South Korea, China, Czech Republic, Poland, Brazil, Belarus and Israel. The authors of the chapters from this collection present in depth extended research results in their scientific fields.The presented contents are highly interesting while still being rather practically oriented and straightforward to understand. Herewith we would like to wish all our readers a lot of inspiration by studying of the volume!

Balancing Agile and Disciplined Engineering and Management Approaches for IT Services and Software Products - Mora, Manuel 2020-07-10
The highly dynamic world of information technology service management stresses the benefits of the quick and correct implementation of IT services. A disciplined approach relies on a separate set of assumptions and principles as an agile approach, both of which have complicated implementation processes as well as copious benefits. Combining these two approaches to enhance the effectiveness of each, while difficult, can yield exceptional dividends. Balancing Agile and Disciplined Engineering and Management Approaches for IT Services and Software Products is an essential publication that focuses on clarifying theoretical foundations of balanced design methods with conceptual frameworks and empirical cases. Highlighting a broad range of topics including business trends, IT service, and software development, this book is ideally designed for software engineers, software developers, programmers, information technology professionals, researchers, academicians, and students.

The Unicorn Project - Gene Kim 2019-11-26
The Phoenix Project wowed over a half-million readers. Now comes the Wall Street Journal Bestselling The Unicorn Project! "The Unicorn Project is amazing, and I loved it 100 times more than The Phoenix Project…"—FERNANDO CORNAGO, Senior Director Platform Engineering, Adidas "Gene Kim does a masterful job of showing how … the efforts of many create lasting business advantages for all."—DR. STEVEN SPEAR, author of The High-Velocity Edge, Sr. Lecturer at MIT, and principal of HVE LLC. "The Unicorn Project is so clever, so good, so crazy enlightening!"––CORNELIA DAVIS, Vice President Of Technology at Pivotal Software, Inc., Author of Cloud Native Patterns This highly anticipated follow-up to the bestselling title The Phoenix Project takes another look at Parts Unlimited, this time from the perspective of software development. In The Unicorn Project, we follow Maxine, a senior lead developer and architect, as she is exiled to the Phoenix Project, to the horror of her friends and colleagues, as punishment for contributing to a payroll outage. She tries to survive in what feels like a heartless and uncaring bureaucracy and to work within a system where no one can get anything done without endless committees, paperwork, and approvals. One day, she is approached by a ragtag bunch of misfits who say they want to overthrow the existing order, to liberate developers, to bring joy back to technology work, and to enable the business to win in a time of digital disruption. To her surprise, she finds herself drawn ever further into this movement, eventually becoming one of the leaders of the Rebellion, which puts her in the crosshairs of some familiar and very dangerous enemies. The Age of Software is here, and another mass extinction event looms—this is a story about rebel developers and business leaders working together,

racing against time to innovate, survive, and thrive in a time of unprecedented uncertainty...and opportunity. "The Unicorn Project provides insanely useful insights on how to improve your technology business."—DOMINICA DEGRANDIS, author of Making Work Visible and Director of Digital Transformation at Tasktop ——— "My goal in writing The Unicorn Project was to explore and reveal the necessary but invisible structures required to make developers (and all engineers) productive, and reveal the devastating effects of technical debt and complexity. I hope this book can create common ground for technology and business leaders to leave the past behind, and co-create a better future together."—Gene Kim, November 2019

Azure DevOps Explained - Sjoukje Zaal 2020-12-11
Implement real-world DevOps and cloud deployment scenarios using Azure Repos, Azure Pipelines, and other Azure DevOps tools Key FeaturesImprove your application development life cycle with Azure DevOps in a step-by-step mannerApply continuous integration and continuous deployment to reduce application downtimeWork with real-world CI/CD scenarios curated by a team of renowned Microsoft MVPs and MCTsBook 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 learnGet to grips with Azure DevOpsFind out about project management with Azure BoardsUnderstand source code management with Azure ReposBuild and release pipelinesRun quality tests in build pipelinesUse artifacts and integrate Azure DevOps in the GitHub flowDiscover real-world CI/CD scenarios with Azure DevOpsWho 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.

Learning DevOps: Continuously Deliver Better Software - Joakim Verona 2016-09-22
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.

Tools and Techniques for Software Development in Large Organizations: Emerging Research and Opportunities - Pendyala, Vishnu 2019-12-20
The development of software has expanded substantially in recent years. As these technologies continue to advance, well-known organizations have begun implementing these programs into the ways they conduct business. These large companies play a vital role in the economic environment, so understanding the software that they utilize is pertinent in many aspects. Researching and analyzing the tools that these corporations use will assist in the practice of software engineering and give other organizations an outline of how to successfully implement their own computational methods. Tools and Techniques for Software Development in Large Organizations: Emerging Research and Opportunities is an essential reference source that discusses advanced software methods that prominent companies have adopted to develop high quality products. This book will examine the various devices that organizations such as Google, Cisco, and Facebook have implemented into their production and development processes. Featuring research on topics such as database management, quality assurance, and machine learning, this book is ideally designed for software engineers, data scientists, developers, programmers, professors, researchers, and students seeking coverage on the advancement of software devices in today's major corporations.

Effective DevOps with AWS - Yogesh Raheja 2018-09-28
Scale and maintain outstanding performance in your AWS-based infrastructure using DevOps principles Key FeaturesImplement continuous integration and continuous deployment pipelines on AWSGain insight from an expert who has worked with Silicon Valley's most high-profile companiesImplement DevOps principles to take full advantage of the AWS stack and servicesBook 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 learnImplement automatic AWS instance provisioning using CloudFormationDeploy your application on a provisioned infrastructure with AnsibleManage infrastructure using TerraformBuild and deploy a CI/CD pipeline with Automated Testing on AWSUnderstand the container journey for a CI/CD pipeline using AWS ECSMonitor and secure your

AWS environmentWho 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.

Agile DevOps Self-Assessment Maturity Model - Sudipta Malakar 2019-07-02

For decades, technology and business leaders have struggled to balance agility, reliability, automation and security, and the consequences of failure are always significant. The effective management of technology is critical for business competitiveness. High-performing organizations are 2.5 times more likely to exceed profitability, market share, and productivity goals. The Agile & DevOps handbook shows leaders how to create the cultural norms and the technical best practices necessary to maximize organizational learning, increase employee satisfaction, win in the marketplace, enhance Customer / business delight and capture new business.The book has been written in such a way that the concepts are explained in detail, giving adequate emphasis on real-life examples. All the tools you need to an in-depth Agile and DevOps Self-Assessment Maturity model. Featuring 500 PLUS new and updated case-based questions, organized into seven core areas of process design, this Self-Assessment will help you identify areas in which DevOps improvements can be made.The real-time examples are discussed in detail from simple to complex taking into consideration the requirement of IT consultants. Various sample projects are included in the book and are written in simple language so as to give IT consultants the basic idea of developing projects in Agile & DevOps. The examples given in book are user-focused and have been highly updated including topics, figures, strategies, best practices and real-life examples, demos and case studies.You will explore DevOps process maturity frameworks and progression models with checklist templates for each phase of DevOps. This Self-aAssessment empowers people to do just that - whether their title is entrepreneur, Coach, Leader, manager, consultant, (Vice-) President, CEO, CTO, COO, CIO etc... - They are the people who rule the future. They are the peoplerson who asks the right questions to make DevOps investments work better. KEY FEATURES - The book is divided into the following sections: -600 PLUS Real-time Agile & DevOps interview questions and answers-Numerous Tricky Real-time Agile & DevOps Case Studies and Demos-Agile & DevOps all-Inclusive Self-Assessment Checklist for Maturity Model featuring 400 PLUS new and updated case-based questions-The state of agility-Different Agile frameworks (extreme programming, SCRUM, Kanban, crystal methodologies, SAFe, dynamic software development methods, feature driven development, lean software development)-Common Agile Product Development & Test Automation Myths-Dictionary of Tools & techniques of Agile and DevOps-Different Types of Agile Certifications - Tips & Tricks-Estimation techniques used in Agile and DevOps-DevOps, Lean, ITSM, Agile value stream examples-DevOps Implementation - Approach & Guidelines-Change Management Process - DevOps-Quality Management Process - DevOps-Get to know what are continuous integration, continuous delivery, and continuous deployment-DevOps - Continuous Business Planning-DevOps - Continuous Integration & Continuous Testing-DevOps - Continuous Deployment & Release Management-DevOps - Continuous Release & Deployment Automation-DevOps - Continuous Testing-DevOps - Continuous Monitoring-DevOps - Continuous Customer Feedback And Optimization-DevOps - DevOps "Continuous Delivery" With In-Built "Quality Assurance"-Continuous Improvement - Agile and DevOps-Agile & DevOps main goal and challenges-Integrate recent advances in DevOps and process design strategies into practice according to best practice guidelines-Diagnose Agile & DevOps projects, initiatives, organizations, businesses and processes using accepted diagnostic standards and practices-Technical best practices

DevOps for Web Development - Mitesh Soni 2016-10-24

Achieve the Continuous Integration and Continuous Delivery of your web applications with ease About This Book Overcome the challenges of implementing DevOps for web applications, familiarize yourself with diverse third-party modules, and learn how to integrate them with bespoke code to efficiently complete tasks Understand how to deploy web applications for a variety of Cloud platforms such as Amazon EC2, AWS Elastic Beanstalk, Microsoft Azure, Azure Web Apps, and Docker Container Understand how to monitor applications deployed in Amazon EC2, AWS Elastic Beanstalk, Microsoft Azure, Azure Web Apps using Nagios, New Relic, Microsoft Azure, and AWS default monitoring features Who This Book Is For If you are a system admin or application and web application developer with a basic knowledge of programming and want to get hands-on with tools such as Jenkins 2 and Chef, and Cloud platforms such as

AWS and Microsoft Azure, Docker, New Relic, Nagios, and their modules to host, deploy, monitor, and manage their web applications, then this book is for you. What You Will Learn Grasp Continuous Integration for a JEE application—create and configure a build job for a Java application with Maven and with Jenkins 2.0 Create built-in delivery pipelines of Jenkins 2 and build a pipeline configuration for end-to-end automation to manage the lifecycle of Continuous Integration Get to know all about configuration management using Chef to create a runtime environment Perform instance provisioning in AWS and Microsoft Azure and manage virtual machines on different cloud platforms—install Knife plugins for Amazon EC2 and Microsoft Azure Deploy an application in Amazon EC2, AWS Elastic Beanstalk, Microsoft Azure Web Apps, and a Docker container Monitor infrastructure, application servers, web servers, and applications with the use of open source monitoring solutions and New Relic Orchestrate multiple build jobs to achieve application deployment automation—create parameterized build jobs for end-to-end automation In Detail The DevOps culture is growing at a massive rate, as many organizations are adopting it. However, implementing it for web applications is one of the biggest challenges experienced by many developers and admins, which this book will help you overcome using various tools, such as Chef, Docker, and Jenkins. On the basis of the functionality of these tools, the book is divided into three parts. The first part shows you how to use Jenkins 2.0 for Continuous Integration of a sample JEE application. The second part explains the Chef configuration management tool, and provides an overview of Docker containers, resource provisioning in cloud environments using Chef, and Configuration Management in a cloud environment. The third part explores Continuous Delivery and Continuous Deployment in AWS, Microsoft Azure, and Docker, all using Jenkins 2.0. This book combines the skills of both web application deployment and system configuration as each chapter contains one or more practical hands-on projects. You will be exposed to real-world project scenarios that are progressively presented from easy to complex solutions. We will teach you concepts such as hosting web applications, configuring a runtime environment, monitoring and hosting on various cloud platforms, and managing them. This book will show you how to essentially host and manage web applications along with Continuous Integration, Cloud Computing, Configuration Management, Continuous Monitoring, Continuous Delivery, and Deployment. Style and approach This is a learning guide for those who have a basic knowledge of application deployment, configuration management tools, and Cloud computing, and are eager to leverage it to implement DevOps for web applications using end-to-end automation and orchestration.

DevOps: Continuous Delivery, Integration, and Deployment with DevOps - Sricharan Vadapalli 2018-03-13

Explore the high-in demand core DevOps strategies with powerful DevOps tools such as Ansible, Jenkins, and Chef Key Features ●Get acquainted with methodologies and tools of the DevOps framework ●Perform continuous integration, delivery, deployment, and monitoring using DevOps tools ●Explore popular tools such as Git, Jenkins, Maven, Gerrit, Nexus, Selenium, and so on ●Embedded with assessments that will help you revise the concepts you have learned in this book Book Description DevOps is the most widely used software engineering culture and practice that aim sat software development and operation. Continuous integration is a cornerstone technique of DevOps that merges software code updates from developers into a shared central mainline. This book takes a practical approach and covers the tools and strategies of DevOps. It starts with familiarizing you with DevOps framework and then shows how toper form continuous delivery, integration, and deployment with DevOps. You will explore DevOps process maturity frameworks and progression models with checklist templates for each phase of DevOps. You will also be familiar with agile terminology, methodology, and the benefits accrued by an organization by adopting it. You will also get acquainted with popular tools such as Git, Jenkins ,Maven, Gerrit, Nexus, Selenium, and so on.You will learn configuration, automation, and the implementation of infrastructure automation (Infrastructure as Code) with tools such as Chef and Ansible. This book is ideal for engineers, architects, and developers, who wish to learn the core strategies of DevOps. What you will learn ●Get familiar with life cycle models, maturity states, progression and best practices of DevOps frameworks ●Learn to set up Jenkins and integrate it with Git ●Know how to build jobs and perform testing with Jenkins ●Implement infrastructure automation (Infrastructure as Code) with tools such as Chef and Ansible ●Understand continuous monitoring process with tools such as Splunk and Nagios ●Learn how Splunk

improves the code quality Who this book is for This book is for engineers, architects, and developers, who wish to learn the core strategies of DevOps.

Professional Scrum Development with Azure DevOps - Richard Hundhausen 2021-02-24
Professional Scrum Development with Azure DevOps stands apart from all other Scrum and Azure guides by focusing on the fusion of today's most popular agile framework (Scrum) and ALM/DevOps toolset (Azure DevOps). Hundhausen shows how a professional Scrum team can more effectively plan, track, and manage its work with Azure Boards, Azure Test Plans, and related Azure DevOps features. He offers detailed coverage of team formation, backlogs, sprints, test plans, collaboration, flow, continuous improvement, and the real-world tradeoffs between using tools and interacting directly with other team members. To make this guide even more valuable, Hundhausen has crafted it to complement Scrum.org's popular Professional Scrum Developer (PSD) program, which he personally created with Scrum.org's Ken Schwaber. Powerful techniques for the 80-90% of modern software teams that use Scrum and its variants Reflects state-of-the-art tools built into Azure DevOps, as well as its integration with GitHub Introduces high-productivity features for Scrum teams in Azure Boards and Azure Test Plans Complements Scrum.org's Professional Scrum Developer (PSD) program -- created by this book's author together with Ken Schwaber Richard Hundhausen helps software organizations and teams deliver better products by understanding and leveraging Azure DevOps and Scrum. He is a Professional Scrum Trainer, Professional Scrum Developer, author of Professional Scrum Development with Microsoft Visual Studio(Microsoft Press), and co-creator of the Nexus Scaled Scrum Framework with Ken Schwaber. As a software developer and consultant with 30+ years of experience, he understands that software is built and delivered by people, not by processes or tools.

Team Topologies - Matthew Skelton 2019-09-17
In Team Topologies DevOps consultants Matthew Skelton and Manuel Pais share secrets of successful team patterns and interactions to help readers choose and evolve the right team patterns for their organization, making sure to keep the software healthy and optimize value streams. Team Topologies will help readers discover: • Team patterns used by successful organizations. • Common team patterns to avoid with modern software systems. • When and why to use different team patterns • How to evolve teams effectively. • How to split software and align to teams.