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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 last 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.

The Cloud Adoption Playbook-Moe Abdulla 2018-03-08 The essential roadmaps for enterprise cloud adoption As cloud technologies continue to challenge the fundamental understanding of how businesses work, smart companies are moving quickly to adapt to a changing set of rules. Adopting the cloud requires a clear roadmap backed by use cases, grounded in practical real-world experience, to show the routes to successful adoption. The Cloud Adoption Playbook helps business and technology leaders in enterprise organizations sort through the options and make the best choices for accelerating cloud adoption and digital transformation. Written by a team of IBM technical executives with a wealth of real-world cloud experience, this book cuts through the hype, answers your questions, and helps you tailor your cloud adoption and digital transformation journey to the needs of your organization. This book will help you: Discover how the cloud can fulfill major business needs. Adopt a standardized Cloud Adoption Framework and understand the key dimensions of cloud adoption and digital transformation. Learn how cloud adoption impacts culture, architecture, security, and more. Understand the roles of governance, methodology, and how the cloud impacts key players in your organization. Providing a collection of winning plays, leadership advice, and real-world examples of successful adoption, this playbook is your ultimate resource for making the cloud work. There has never been a better time to adopt the cloud. Cloud solutions are more numerous and accessible than ever before, and evolving technology is making the cloud more reliable, more secure, and more necessary than ever before. Don’t let your organization be left behind! The Cloud Adoption Playbook gives you the essential guidance you need to make the smart choices that reduce your organizational risk and accelerate your cloud adoption and digital transformation.

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.

Site Reliability Engineering-Niall Richard Murphy 2016-03-23 The overwhelming majority of a software system’s lifespan is spent in use, not in design or implementation. So, why does conventional wisdom insist that software engineers focus primarily on the design and development of large-scale computing systems? In this collection of essays and articles, key members of Google’s Site Reliability Team explain how and why their commitment to the entire lifecycle has enabled the company to successfully build, deploy, monitor, and maintain some of the largest software systems in the world. You’ll learn the principles and practices that enable Google engineers to make systems more scalable, reliable, and efficient—lessons directly applicable to your organization. This book is divided into four sections: Introduction—Learn what site reliability engineering is and why it differs from conventional IT industry practices. Principles—Examine the patterns, behaviors, and areas of concern that influence the work of a site reliability engineer (SRE). Practices—Understand the theory and practice of an SRE’s day-to-day work: building and operating large distributed computing systems. Management—Explore Google’s best practices for training, communication, and meetings that your organization can use.

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.

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 topic 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, applying practices, 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 Improvement") and finally The Third Way (called "Continuous Feedback"). 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.

Achieving DevOps - Dave Harrison 2019-05-23 Ben is stuck. A development lead with a strong vision for how the intersection of development and operations at his office can be improved, he can't help but feel overwhelmed and discouraged by common problems such as slow turnaround time, rushed and ineffective handover documentation, mounting technical debt, and a lagging QA process. What steps should Ben take to build the momentum needed to create positive changes within his company? In this unique business novel by Dave Harrison and Knox Lively, two DevOps professionals with years of diverse experience in the industry, you follow Ben as he solves work frustrations in order to adopt Agile, DevOps, and microservices architectures for his organization. Achieving DevOps addresses the "New Normal" of many DevOps professionals' journeys on their journey. The story provides you with the knowledge you need to navigate the internal political waters, build management support, show measurable results, and bring DevOps successfully into your organization. Come away with practical lessons and timeless business concepts. You'll know how to effect change from the bottom up as development leads, QA leads, project managers, and individual developers; and IT directors, CTOs, and others at the top of an organization who are being asked to lend their support toward DevOps implementation efforts.

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 out of a development and deployment: those working to effect change from the bottom up as development leads, QA leads, project managers, and individual developers; and IT directors, CTOs, and others at the top of an organization who are being asked to lend their support toward DevOps implementation efforts. 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 Change in Azure DevOps, and get exposed 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, applying practices, 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 Improvement") and finally The Third Way (called "Continuous Feedback"). 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 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 recognize these incredible outcomes, by showing how to integrate Project Management, Development, QA, IT Operations, and Information Security to elevate your company and win in the marketplace.

The DevOps Adoption Playbook - Sanjeev Sharma 2017-01-12 Deliver High-Value, Streamlined Enterprise Applications and Systems with DevOps Enterprise IT has unique needs, capabilities, limitations, and challenges. DevOps is perfectly suited to deliver high-value applications and systems with velocity and agility, enabling innovation and speed while never sacrificing quality. But until now, most DevOps instruction has been focused on start-ups and born-on-the-web companies with an entirely different set of requirements. In The DevOps Adoption Playbook, IBM Distinguished Engineer Sanjeev Sharma shows you exactly how to adopt DevOps in the enterprise based on your organization's business goals, current state of IT maturity, and IT technologies and platforms. Derived from his own experience helping companies in a wide variety of industries to successfully adopt DevOps, it outlines how to get your organization on board, meet the challenges, and move into the fast lane. Like a sports playbook, this guide provides "plays" that can be executed for different scenarios and situations within your company. You will learn to create an individual game plan that factors in specifics of your business and get your team working together with a common goal. The DevOps Adoption Playbook shows you how to: Understand the elements and capabilities of DevOps Define the challenges of a multi-speed IT environment Identify the business goals that large enterprises can meet with DevOps Implement DevOps in large-scale enterprise IT environments Achieve high-value innovation and optimization with low cost and risk Exceed business goals with higher product release efficiency Apply DevOps across multiple technologies from mainframe, mobile, containers, microservices, to cloud technologies.

Securing DevOps - Julien Vehrent 2018-08-20 SummarySecuring DevOps explores how the techniques of DevOps and security should be applied together to make cloud development and deployment more secure. This informed introduction to the latest practices used in securing web applications and their infrastructure and teaches you techniques to integrate security directly into your product. You'll also learn the core concepts of DevOps, such as continuous integration, continuous delivery, and infrastructure as a service. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology An application running in the cloud can benefit from incredible efficiencies, but they come with unique security threats too. A DevOps team's highest priority is understanding those risks and hardening the system against them. About the Book Securing DevOps teaches you the essential techniques to secure your cloud services. Using compelling case studies, it shows you how to build security into automated testing, continuous delivery, and other core DevOps processes. This experience-rich book is filled with mission-critical strategies to protect web applications against attacks, deter fraud attempts, and make your services safer when operating at scale. You'll also learn to identify, assess, and secure the unique vulnerabilities posed by cloud deployments and automation tools commonly used in modern infrastructures. What's inside An approach to continuous security Implementing test-driven security in DevOps Security techniques for cloud services Watching for fraud and responding to incidents Security testing and risk assessment About the Reader Readers should be comfortable with Linux and standard DevOps practices like CI, CD, and unit testing. About the Author Julien Vehrent is a security architect with cloud experience. He leads the Firefox Operations Security team at Mozilla, and is responsible for the security of Firefox's high-traffic cloud services and public websites. Table of Contents Securing DevOps PART 1 - Case study: applying layers of security to a simple DevOps pipeline Building a barebones DevOps pipeline Security layer 1: perimeter protection Security layer 2: protecting cloud infrastructures Security layer 3: securing communications Security layer 4: securing the delivery pipeline PART 2 - Watching for anomalies and protecting services against attacks Collecting and storing logs Analyzing logs for fraud and attacks Detecting intrusions The Caribbean breach: a case study in incident response PART 3 - Maturing DevOps security Assessing risks Testing security Continuous security.

DevOps For Dummies - Emily Freeman 2019-07-29 Deliver faster with DevOps. The DevOps 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 Improvement") and finally The Third Way (called "Continuous Feedback"). 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.
Start and Scaling Devops in the Enterprise—Gary Gruver 2016-12
DevOps is a fundamental shift in how leading edge companies are starting to manage their software and IT work. Businesses need to move more quickly than ever before, and large software organizations are applying these DevOps principles to develop new software faster than anyone previously thought possible. DevOps started in small organizations and in large organizations that had or created architectures that enabled small teams to independently develop, qualify, and deploy code. The impact on productivity is so dramatic that larger organizations with tightly coupled architectures are realizing they either need to embrace DevOps or be left behind. The biggest challenge is that they can’t just empower small teams to work independently because their legacy architectures require coordinating the development, qualification, and deployment of code across hundreds of people. They need a DevOps approach that not only addresses their unique challenges, but also helps them reach an organization-wide agreement on where to start and how to scale DevOps. That is where Starting and Scaling DevOps in the Enterprise comes in. Starting and Scaling DevOps in the Enterprise is a quick, easy-to-read guide that helps structure those improvements by providing a framework that large organizations can use to understand DevOps principles in the context of their current development processes and gain momentum for change. "With the clock ticking, Bill must organize work flow and streamline interdepartmental communications, and effectively serve the 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 its 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-authors freeman and Hill have sharpened their axe to deliver a 2nd edition that includes a new foreword 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 of Parts Unlimited is under immense pressure: if Bill fails, then 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 and streamline interdepartmental communications, and effectively serve the business and IT executives who are struggling with the growing complexity of IT. "This book is a gripping read that captures brilliantly the dilemmas that face companies which depend on IT, and offers, a response to the competitive market can be enormous. To aid in their success, organizations are facing increased encouragement to embrace change. They are pushed to think of new and innovative ways to counter, or offer, a response to from failures than we do from successes. When something goes as expected, we use that process as a mental template for future projects. Success actually stunts the learning because while 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. An Agile Adoption and Transformation Survival Guide—Michael Sahota

DevOps for Developers—Michael Hittermann 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 to Agile software development start with 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, that work 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 Technology Strategy Patterns—Eben Hewitt 2018-10-29 Technologists who want their ideas heard, understood, and funded are often told to speak the language of business—without really knowing what that is. This book’s toolkit provides architects, product managers, technology managers, and executives with a shared language—in the form of repeatable, practical patterns and templates—to produce great technology strategies. Author Eben Hewitt developed 39 patterns over the course of a decade in his work as CTO, CIO, and chief architect for several global tech companies. With these proven tools, you can define, create, elaborate, refine, and communicate your architecture goals, plans, and approach in a way that executives can readily understand, approve, and execute. This book covers: Architecture and strategy: Adopt a strategic architectural mindset to make a meaningful material impact Creating your strategy: Define the components of your technology strategy using proven patterns Communicating the strategy: Convey your technology strategy in a compelling way to a variety of audiences by bringing it all together: Employ patterns individually or in clusters for specific problems; use the complete framework for a comprehensive strategy Getting Started: Journey to Modernization with IBM Z—Makenzie Mann 2021-05-15 Modernization of enterprise IT applications and infrastructure is key to the survival of organizations. It is no longer a matter of choice. The cost of missing out on business opportunities in an intensely competitive market can be enormous. To aid in their success, organizations are facing increased encouragement to embrace change. They are pushed to think of new and innovative ways to counter, or offer, a response to Epic Failures in Devsecops—Aubrey Stearn 2018-11-06 We learn more about the challenges and failures that have occurred in the DevSecOps space. These failures have taught us valuable lessons about the importance of security throughout the software development lifecycle. Some key takeaways from the book include:

- The importance of security being integrated from the start of the development process, not just added on as an afterthought.
- The need for collaboration and communication between development and security teams.
- The role of automation in improving security practices.

Overall, the book provides a comprehensive look at the failures in DevSecOps and how to avoid them in the future. It is a valuable resource for anyone involved in software development and security.
threats that are posed by competitors who are equally as aggressive in adopting newer methods and technologies. The term modernization often varies in meaning based on perspective. This IBM Redbook publication focuses on the technological advancements that unlock computing environments that are hosted on IBM Z® to enable secure processing at the core of hybrid. This publication is intended for IT executives, IT managers, IT architects, System Programmers, and Application Developer professionals.

Unleashed—Frances Frei 2020-06-02 The Power of Empowering Others Leadership isn't easy. It takes grit, courage, and vision, among other things, that can be hard to come by on your toughest days. When leaders aspire, leaders attract aspirers; they're often asked to try harder. Dig deeper. Look in the mirror and own your natural-born strengths and fix any real or perceived career-limiting deficiencies. Frances Frei and Anne Morris offer a different worldview. They argue that this popular leadership advice glosses over the most important thing you do as a leader: build others up. Leadership isn't about you. It's about how effective you are at empowering other people—and making sure this impact endures even in your absence. As Frei and Morris show through inspiring stories from ancient Rome to present-day Silicon Valley, the origins of great leadership are found, paradoxically, not in worrying about your own status and advancement, but in the unrelenting focus on other people’s potential. Unleashed provides radical advice for the practice of leadership today. Showing how the boldest, most effective leaders use a special combination of trust, love, and belonging to create an environment in which other people can excel, Frei and Morris offer practical, battle-tested tools—based on their work with companies such as Uber, Riot Games, WeWork, and others—along with interviews and stories from their own personal experience, to make these ideas come alive. This book is your indispensable guide for unleashing greatness in other people . . . and, ultimately, in yourself. To learn more, please visit theleadersguide.com.

Production-Ready Microservices—Susan J. Fowler 2016-11-30 One of the biggest challenges for organizations that have adopted microservice architecture is the lack of architectural, operational, and organizational standardization. After splitting a monolithic application or building a microservice ecosystem from scratch, many engineers are left wondering what’s next. In this practical book, author Susan Fowler presents a set of microservice standards in depth, drawing from her experience standardizing the microservices architecture at Twitter. You’ll learn how to design microservices that are stable, reliable, scalable, fault tolerant, performant, monitored, documented, and prepared for any catastrophe. Explore production-readiness standards, including: Stability and Reliability: develop, deploy, introduce, and deprecate microservices; protect against dependency failures Scalability and Performance: learn essential components for a better microservices architecture Fault Tolerance and Catastrophe Preparedness: ensure availability by actively pushing microservices to fail in real time Monitoring: learn how to monitor, log, and display key metrics; establish alerting and on-call procedures Documentation and Understanding: mitigate tradeoffs that come with microservice adoption, including organizational sprawl and technical debt 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 take. 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 your growth engine. Cheers!

Mastering Salesforce DevOps—Andrew Davis 2019-10-29 This practical guide brings DevOps principles to Salesforce development. It fits together two major movements within the IT world: the movement to Software/Platform as a Service (SaaS/PaaS), and the DevOps movement. While SaaS and PaaS allow companies to invest in their core competencies rather than maintain their own infrastructure, the goal of DevOps is to optimize the process of delivering software innovation and value. The release of Salesforce DX in late 2017 unlocks the possibility of a true DevOps workflow on Salesforce. But DevOps is new to the Salesforce world and there is not a widespread understanding of its goals and methods, and so adoption of Salesforce DX is still in the early stages. Mastering Salesforce DevOps explains how to build a powerful and comprehensive DevOps workflow for Salesforce—allowing you to finally deploy the world’s most innovative platform using the world’s most effective and efficient techniques. It addresses the need for a comprehensive guide to DevOps for Salesforce, allowing teams to bring proven practices from the IT world to resolve the hardest problems facing Salesforce developers today. What You Will Learn Improve company performance and software delivery performance using Salesforce DX Translate DevOps concepts into the unique language and practices of Salesforce Understand why and how you can implement Salesforce DX to achieve greater productivity and innovation Enable continuous delivery on Salesforce Build packages and architect code so it can be deployed easily Allow admins to participate in what has traditionally been a developer workflow Know the techniques for reducing the stress and risk of deployment Apply the full range of automated tests that can be used on Salesforce DX Hands-On Security in DevOps—Tony Hsiang-Chih Hsu 2018-07-30 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.

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. Now, I'm excited to share a new book that I've been heavily involved in the recruitment process of various DevOps-related roles 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 recruiters asking about 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

DevOps for the Modern Enterprise—Mirco Hering 2018-04-03 Many organizations are facing the uphill battle of modernizing their legacy IT infrastructure. Most have evolved over the years by taking lessons from traditional or legacy manufacturing: creating a production process that puts the emphasis on the process instead of the people performing the tasks, allowing the organization to treat people like resources to try to achieve high-quality outcomes. But those practices and ideas are failing modern IT, where collaboration and creativity are required to achieve high-performing, high-quality success. Mirco Hering, a thought leader in managing IT within leading companies, lays out the path for success for IT managers, showing them how to create the right ecosystem, how to empower people to bring their best to work every day, and how to put the right technology in the driver’s seat to propel their organization to success. But just having the right methods and tools will not magically transform an organization; the cultural change that is the hardest is also the most impactful. Using principles from Agile, Lean, and DevOps as well as first-hand examples from the enterprise world, Hering addresses the different challenges that legacy organizations face as they transform into modern IT departments.

Hands-On Security in DevOps—Tony Hsiang-Chih Hsu 2018-07-30 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. DevOps for the Modern Enterprise—Mirco Hering 2018-04-03 Many organizations are facing the uphill battle of modernizing their legacy IT infrastructure. Most have evolved over the years by taking lessons from traditional or legacy manufacturing: creating a production process that puts the emphasis on the process instead of the people performing the tasks, allowing the organization to treat people like resources to try to achieve high-quality outcomes. But those practices and ideas are failing modern IT, where collaboration and creativity are required to achieve high-performing, high-quality success. Mirco Hering, a thought leader in managing IT within leading companies, lays out the path for success for IT managers, showing them how to create the right ecosystem, how to empower people to bring their best to work every day, and how to put the right technology in the driver’s seat to propel their organization to success. But just having the right methods and tools will not magically transform an organization; the cultural change that is the hardest is also the most impactful. Using principles from Agile, Lean, and DevOps as well as first-hand examples from the enterprise world, Hering addresses the different challenges that legacy organizations face as they transform into modern IT departments.

Leading the Transformation—Gary Gruver 2015-08-01 Leading the Transformation is executive guidance, 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 companies.

The DevOps Adoption Playbook—a guide to adopting DevOps in a multi-speed IT enterprise—Frances Frei 2020-06-02 The Power of Empowering Others Leadership isn’t easy. It takes grit, courage, and vision, among other things, that can be hard to come by on your toughest days. When leaders aspire, leaders attract aspirers; they’re often asked to try harder. Dig deeper. Look in the mirror and own your natural-born strengths and fix any real or perceived career-limiting deficiencies. Frances Frei and Anne Morris offer a different worldview. They argue that this popular leadership advice glosses over the most important thing you do as a leader: build others up. Leadership isn’t about you. It’s about how effective you are at empowering other people—and making sure this impact endures even in your absence. As Frei and Morris show through inspiring stories from ancient Rome to present-day Silicon Valley, the origins of great leadership are found, paradoxically, not in worrying about your own status and advancement, but in the unrelenting focus on other people’s potential. Unleashed provides radical advice for the practice of leadership today. Showing how the boldest, most effective leaders use a special combination of trust, love, and belonging to create an environment in which other people can excel, Frei and Morris offer practical, battle-tested tools—based on their work with companies such as Uber, Riot Games, WeWork, and others—along with interviews and stories from their own personal experience, to make these ideas come alive. This book is your indispensable guide for unleashing greatness in other people . . . and, ultimately, in yourself. To learn more, please visit theleadersguide.com.
organizations—an improvement that executives are uniquely positioned to lead.

digital transformation game plan—Gary O'Brien 2019-10-30 The Digital Age is having a broad and profound impact on companies and entire industries. Rather than simply automate or embed digital technology into existing offerings, your business needs to rethink everything. In this practical book, three ThoughtWorks professionals provide a game plan to help your business through this transformation, along with technical concepts that you need to know to be an effective leader in a modern digital business.

Choose your WoW—Scott Ambler 2020-07-01 Hundreds of organizations around the world have already benefited from Disciplined Agile Delivery (DAD). Disciplined Agile (DA) is the only comprehensive tool kit available for guidance on building high-performance agile teams and optimizing your way of working (WoW). As a hybrid of all the leading agile and lean approaches, it provides hundreds of strategies to help you make better decisions within your agile teams, balancing self-organization with the realities and constraints of your unique enterprise context. The highlights of this handbook include:...

War and Peace and IT—Mark Schwartz 2019-05-14 The Business-IT Wall is disappearing. With a chatbot at the table, thought leader Mark Schwartz pulled out a chair for CIOs at the C-suite table. Now Mark brings his unique perspective and experience to business leaders looking to lead their company into the digital age by harnessing the expertise and innovation that is already under their roof: IT. In the war for business supremacy, Schwartz shows us that the USA is better equipped to win the IT field. &•It is an essential handbook to help coaches and teams make better decisions in their daily work, providing a wealth of ideas for experimenting with agile and lean techniques while providing specific guidance and trade-offs for those &• it depends&• questions. &•It makes a perfect study guide for Disciplined Agile certification. Why &• it lacks (as our industry likes to recommend) when you can learn quickly on your journey to high performance? With this handbook, you can make better decisions based upon proven, context-based strategies, leading to earlier success and better outcomes.

Learning DevOps—Mikael Krief 2019-10-25 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 fast 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 provide an end-to-end infrastructure. Begin by understanding DevOps culture, the application of DevOps in cloud infrastructure, provisioning with Terraform, configuration with Ansible, and image building with Packer. Then you'll 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 findings from 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 Implement test automation with Selenium, Postman, 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.

The (Delicate) Art of Bureaucracy—Mark Schwartz 2020 A playbook for mastering the art of bureaucracy from thought-leader Mark Schwartz.

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-Value Edge, Sr. Lecturer at MIT, and principal of The Business-IT Wall of the University, “One of the best books I have ever read. The story is 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 outrage. 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 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

DevOps for Digital Leaders—Aruna Ravichandran 2016-11-09 Design to learn, 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, Mark Schwartz, and Dominica De Grandis 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 and profit. You’ll learn how to provision infrastructures in minutes, and how to more effectively leverage your existing software development infrastructure. You’ll also gain an understanding of the technologies and platforms that are key to enabling modern DevOps practices. This compact guide will help you think more strategically about how to design, implement, and measure your DevOps efforts and maximize your return on investment.
**The Practice of Cloud System Administration**

**The Practice of Cloud System Administration, Volume 2**, focuses on “distributed” or “cloud” computing and brings a DevOps/SRE sensibility to the practice of system administration. Unsatified with books that cover either design or operations in isolation, the authors created this authoritative reference centered on a comprehensive approach. Case studies and examples from Google, Etsy, Twitter, Facebook, Netflix, Amazon, and other industry giants are explained in practical ways that are useful to all enterprises. The new companion to the best-selling first volume, The Practice of System and Network Administration: Operating Systems and Applications, a complete guide to building a modern cloud operations team.

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**Effective DevOps with AWS**

Yogesh Raheja 2018-09-28 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

**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 with 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 will you learn? Implement automatic AWS instance provisioning using CloudFormation—kubernetes, ansible, Ubuntu, Docker Swarm and more. Implement fast, reliable and continuous deployments with zero-downtime and ability to roll-back. Learn about centralized logging and monitoring of your cluster. 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. How this book is for Effective DevOps with AWS for you if you’re 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.

**The DevOps 2.0 Toolkit**

Viktor Farcic 2016-08-31 Automating the Continuous Deployment Pipeline with Containerized Microservices About This Book First principles of devops, Ansible, Docker, Kubernetes, microservices Architect your software in a better and more efficient way with microservices packed as immutable containers Practical guide describing an extremely modern and advanced devops toolchain that can be improved continuously Who This Book Is For You are an intermediate-level developer who wants to master the whole microservices development and deployment lifecycle using some of the latest and greatest practices and tools, this is the book for you. Familiarity with the basics of Devops and Continuous Deployment will be useful. What You Will Learn Get to grips with the fundamentals of Devops Architect efficient software in a better and more efficient way with the help of microservices Use Docker, Kubernetes, Ansible, Ubuntu, Docker Swarm and more Implement fast, reliable and continuous deployments with zero-downtime and ability to roll-back Learn about centralized logging and monitoring of your cluster Design self-healing systems capable of recovery from both hardware and software failures In Detail Building a complete modern devops toolchain requires not only the whole microservices development and a complete deployment lifecycle, but also the latest and greatest practices and tools. Viktor Farcic argues from first principles how to build a devops toolchain. This book shows you how to chain together Docker, Kubernetes, Ansible, Ubuntu, and other tools, and how to parallelize and release your toolchain. A style and approach This book follows a unique, hands-on approach familiarizing you to the Devops 2.0 toolkit in a very practical manner. Although there will be a lot of theory, you won’t be able to complete this book by reading it in a metro on a way to work. You’ll need to be in front of your computer and get your hands dirty.