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# Download Free Effective DevOps Building A Culture Of Collaboration Affinity And Tooling At Scale

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## KEY=AT - PATEL LOPEZ

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**Effective DevOps Building a Culture of Collaboration, Affinity, and Tooling at Scale** "O'Reilly Media, Inc." *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* **Effective DevOps** *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. **Collaborating in DevOps Culture** Enterprises are learning that a large measure of success for adopting devops is the spirit of collaboration it instills among teams. While companies introduce devops to solve technical issues and shorten the development life cycle, many soon realize that people working together is a key part of the process. This practical report provides managers with practices and strategies for fostering collaboration within their organizations. Authors Jennifer Davis and Ryn Daniels ( *Effective DevOps* ) explain how collaboration among development and operations teams is about building trust, empathy, and psychological safety. You'll learn how to promote these essential building blocks and help teams apply them through each stage of your development lifecycle. Discover how to empower employees, create more productive and innovative teams, and build a respectful workplace. Build durable, long-lasting relationships with colleagues by instilling trust, empathy, and team psychological safety Promote effective communication to increase understanding, assert influence, give recognition, and build community Strengthen engineering effectiveness by putting collaboration principles into practice throughout the development lifecycle Get actionable advice for promoting effective collaboration during your product's discovery, development, and production phases. **The DevOps Handbook How to Create World-Class Agility, Reliability, and Security in Technology Organizations** IT Revolution 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. **Team Topologies Organizing Business and Technology Teams for Fast Flow** IT Revolution 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.

**Web Operations Keeping the Data On Time** ["O'Reilly Media, Inc."](#) A web application involves many specialists, but it takes people in web ops to ensure that everything works together throughout an application's lifetime. It's the expertise you need when your start-up gets an unexpected spike in web traffic, or when a new feature causes your mature application to fail. In this collection of essays and interviews, web veterans such as Theo Schlossnagle, Baron Schwartz, and Alistair Croll offer insights into this evolving field. You'll learn stories from the trenches--from builders of some of the biggest sites on the Web--on what's necessary to help a site thrive. Learn the skills needed in web operations, and why they're gained through experience rather than schooling Understand why it's important to gather metrics from both your application and infrastructure Consider common approaches to database architectures and the pitfalls that come with increasing scale Learn how to handle the human side of outages and degradations Find out how one company avoided disaster after a huge traffic deluge Discover what went wrong after a problem occurs, and how to prevent it from happening again Contributors include: John Allspaw Heather Champ Michael Christian Richard Cook Alistair Croll Patrick Debois Eric Florenzano Paul Hammond Justin Huff Adam Jacob Jacob Loomis Matt Massie Brian Moon Anoop Nagwani Sean Power Eric Ries Theo Schlossnagle Baron Schwartz Andrew Shafer

**Accelerate The Science of Lean Software and DevOps: Building and Scaling High Performing Technology Organizations** [IT Revolution](#) 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.

**Effective DevOps with AWS Implement continuous delivery and integration in the AWS environment, 2nd Edition** [Packt Publishing Ltd](#) 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 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 you will learn

Implement automatic AWS instance provisioning using CloudFormation  
Deploy your application on a provisioned infrastructure with Ansible  
Manage infrastructure using Terraform  
Build and deploy a CI/CD pipeline with Automated Testing on AWS  
Understand the container journey for a CI/CD pipeline using AWS ECS  
Monitor and secure your AWS environment

Who this book is for  
*Effective DevOps with AWS* is for you if you are a developer, DevOps engineer, or you work in a team which wants to build and use AWS for software infrastructure. Basic computer science knowledge is required to get the most out of this book.

**DevOps for Developers** [Apress](#)  
*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

**Building a DevOps Culture** ["O'Reilly Media, Inc."](#)  
*DevOps* is as much about culture as it is about tools When people talk about DevOps, they often emphasize configuration management systems, source code repositories, and other tools. But, as Mandi Walls explains in this Velocity report, DevOps is really about changing company culture—replacing traditional development and operations silos with collaborative teams of people from both camps. The DevOps movement has produced some efficient teams turning out better products faster. The tough part is initiating the change. This report outlines strategies for managers looking to go beyond tools to build a DevOps culture among their technical staff.

Topics include: Documenting reasons for changing to DevOps before you commit Defining meaningful and achievable goals Finding a technical leader to be an evangelist, tools and process expert, and shepherd Starting with a non-critical but substantial pilot project Facilitating open communication among developers, QA engineers, marketers, and other professionals Realigning your team's responsibilities and incentives Learning when to mediate disagreements and conflicts Download this free report and learn how to the DevOps approach can help you create a supportive team environment built on communication, respect, and trust. Mandi Walls is a Senior Consultant with Opscode. **Practical DevOps** Packt Publishing Ltd Harness the power of DevOps to boost your skill set and make your IT organization perform better About This Book Get to know the background of DevOps so you understand the collaboration between different aspects of an IT organization and a software developer Improve your organization's performance to ensure smooth production of software and services Deploy top-quality software and ensure software maintenance and release management with this practical guide Who This Book Is For This book is aimed at developers and system administrators who wish to take on larger responsibilities and understand how the infrastructure that builds today's enterprises works. This book is also great for operations personnel who would like to better support developers. You do not need to have any previous knowledge of DevOps. What You Will Learn Appreciate the merits of DevOps and continuous delivery and see how DevOps supports the agile process Understand how all the systems fit together to form a larger whole Set up and familiarize yourself with all the tools you need to be efficient with DevOps Design an application that is suitable for continuous deployment systems with Devops in mind Store and manage your code effectively using different options such as Git, Gerrit, and Gitlab Configure a job to build a sample CRUD application Test the code using automated regression testing with Jenkins Selenium Deploy your code using tools such as Puppet, Ansible, Palletops, Chef, and Vagrant Monitor the health of your code with Nagios, Munin, and Graphite Explore the workings of Trac—a tool used for issue tracking In Detail DevOps is a practical field that focuses on delivering business value as efficiently as possible. DevOps encompasses all the flows from code through testing environments to production environments. It stresses the cooperation between different roles, and how they can work together more closely, as the roots of the word imply—Development and Operations. After a quick refresher to DevOps and continuous delivery, we quickly move on to looking at how DevOps affects architecture. You'll create a sample enterprise Java application that you'll continue to work with through the remaining chapters. Following this, we explore various code storage and build server options. You will then learn how to perform code testing with a few tools and deploy your test successfully. Next, you will learn how to monitor code for any anomalies and make sure it's running properly. Finally, you will discover how to handle logs and keep track of the issues that affect processes Style and approach This book is primarily a technical guide to DevOps with practical examples suitable for people who like to learn by implementing concrete working code. It starts out with background information and gradually delves deeper into technical subjects. **Agile Conversations Transform Your Conversations, Transform Your Culture** IT Revolution A successful digital transformation must start with a conversational transformation. Today, software organizations are

transforming the way work gets done through practices like Agile, Lean, and DevOps. But as commonly implemented as these methods are, many transformations still fail, largely because the organization misses a critical step: transforming their culture and the way people communicate. *Agile Conversations* brings a practical, step-by-step guide to using the human power of conversation to build effective, high-performing teams to achieve truly Agile results. Consultants Douglas Squirrel and Jeffrey Fredrick show readers how to utilize the Five Conversations to help teams build trust, alleviate fear, answer the “whys,” define commitments, and hold everyone accountable. These five conversations give teams everything they need to reach peak performance, and they are exactly what’s missing from too many teams today. Stop focusing on processes and practices that leave your organization stuck with culture-less rituals. Instead, unleash the unique human power of conversation. **The DevOps Adoption Playbook A Guide to Adopting DevOps in a Multi-Speed IT Enterprise** John Wiley & Sons Achieve streamlined, rapid production with enterprise-level DevOps Awarded DevOps 2017 Book of the Year, *The DevOps Adoption Playbook* provides practical, actionable, real-world guidance on implementing DevOps at enterprise scale. Author Sanjeev Sharma heads the DevOps practice for IBM; in this book, he provides unique guidance and insight on implementing DevOps at large organizations. Most DevOps literature is aimed at startups, but enterprises have unique needs, capabilities, limitations, and challenges; “DevOps for startups” doesn’t work at this scale, but the DevOps paradigm can revolutionize enterprise IT. Deliver high-value applications and systems with velocity and agility by adopting the necessary practices, automation tools, and organizational and cultural changes that lead to innovation through rapid experimentation. Speed is an advantage in the face of competition, but it must never come at the expense of quality; DevOps allows your organization to keep both by intersecting development, quality assurance, and operations. Enterprise-level DevOps comes with its own set of challenges, but this book shows you just how easily they are overcome. With a slight shift in perspective, your organization can stay ahead of the competition while keeping costs, risks, and quality under control. Grasp the full extent of the DevOps impact on IT organizations Achieve high-value innovation and optimization with low cost and risk Exceed traditional business goals with higher product release efficiency Implement DevOps in large-scale enterprise IT environments DevOps has been one of IT’s hottest trends for the past decade, and plenty of success stories testify to its effectiveness in organizations of any size, industry, or level of IT maturity, all around the world. *The DevOps Adoption Playbook* shows you how to get your organization on board so you can slip production into the fast lane and innovate your way to the top. **Beginning Unix** John Wiley & Sons Covering all aspects of the Unix operating system and assuming no prior knowledge of Unix, this book begins with the fundamentals and works from the ground up to some of the more advanced programming techniques The authors provide a wealth of real-world experience with the Unix operating system, delivering actual examples while showing some of the common misconceptions and errors that new users make Special emphasis is placed on the Apple Mac OS X environment as well as Linux, Solaris, and migrating from Windows to Unix A unique conversion section of the book details specific advice and instructions for transitioning Mac OS X, Windows, and Linux users **The Site Reliability Workbook**

**Practical Ways to Implement SRE** "O'Reilly Media, Inc." In 2016, Google's Site Reliability Engineering book ignited an industry discussion on what it means to run production services today—and why reliability considerations are fundamental to service design. Now, Google engineers who worked on that bestseller introduce *The Site Reliability Workbook*, a hands-on companion that uses concrete examples to show you how to put SRE principles and practices to work in your environment. This new workbook not only combines practical examples from Google's experiences, but also provides case studies from Google's Cloud Platform customers who underwent this journey. Evernote, The Home Depot, The New York Times, and other companies outline hard-won experiences of what worked for them and what didn't. Dive into this workbook and learn how to flesh out your own SRE practice, no matter what size your company is. You'll learn: How to run reliable services in environments you don't completely control—like cloud Practical applications of how to create, monitor, and run your services via Service Level Objectives How to convert existing ops teams to SRE—including how to dig out of operational overload Methods for starting SRE from either greenfield or brownfield **Learning DevOps The complete guide to accelerate collaboration with Jenkins, Kubernetes, Terraform and Azure DevOps** Packt Publishing Ltd Simplify your DevOps roles with DevOps tools and techniques Key Features Learn to utilize business resources effectively to increase productivity and collaboration Leverage the ultimate open source DevOps tools to achieve continuous integration and continuous delivery (CI/CD) Ensure faster time-to-market by reducing overall lead time and deployment downtime Book Description The implementation of DevOps processes requires the efficient use of various tools, and the choice of these tools is crucial for the sustainability of projects and collaboration between development (Dev) and operations (Ops). This book presents the different patterns and tools that you can use to provision and configure an infrastructure in the cloud. You'll begin by understanding DevOps culture, the application of DevOps in cloud infrastructure, provisioning with Terraform, configuration with Ansible, and image building with Packer. You'll then be taken through source code versioning with Git and the construction of a DevOps CI/CD pipeline using Jenkins, GitLab CI, and Azure Pipelines. This DevOps handbook will also guide you in containerizing and deploying your applications with Docker and Kubernetes. You'll learn how to reduce deployment downtime with blue-green deployment and the feature flags technique, and study DevOps practices for open source projects. Finally, you'll grasp some best practices for reducing the overall application lead time to ensure faster time to market. By the end of this book, you'll have built a solid foundation in DevOps, and developed the skills necessary to enhance a traditional software delivery process using modern software delivery tools and techniques What you will learn Become well versed with DevOps culture and its practices Use Terraform and Packer for cloud infrastructure provisioning Implement Ansible for infrastructure configuration Use basic Git commands and understand the Git flow process Build a DevOps pipeline with Jenkins, Azure Pipelines, and GitLab CI Containerize your applications with Docker and Kubernetes Check application quality with SonarQube and Postman Protect DevOps processes and applications using DevSecOps tools Who this book is for If you are a developer or a system administrator interested in understanding continuous integration, continuous delivery, and containerization with DevOps tools and techniques, this

book is for you. **Beyond Blame Learning From Failure and Success** ["O'Reilly Media, Inc."](#) Failure is inevitable and a postmortem analysis, conducted in an open, blameless way, is the best way for IT techs and managers to learn from outages and near-misses. But when the "root cause" is determined to be "human error" (or worse, particular humans), the real causes and conditions are lost. In this insightful book, IT veteran Dave Zwieback shows you an approach for making postmortems blameless, so you can focus instead on addressing areas of fragility within systems and organizations. If you're involved with assessing why something goes wrong on a project or at your company—as a system administrator, developer, team manager, or executive—the concrete steps in this guide will help you find a real solution that works. Recognize and mitigate the effects of stress during outages Learn how to communicate effectively in a charged, high-stakes postmortem conversation Collect the necessary data before the postmortem begins Focus on determining the actual causes and conditions of an outage Learn techniques for writing up a postmortem for either internal or external use **Site Reliability Engineering How Google Runs Production Systems** ["O'Reilly Media, Inc."](#) The overwhelming majority of a software system's lifespan is spent in use, not in design or implementation. So, why does conventional wisdom insist that software engineers focus primarily on the design and development of large-scale computing systems? In this collection of essays and articles, key members of Google's Site Reliability Team explain how and why their commitment to the entire lifecycle has enabled the company to successfully build, deploy, monitor, and maintain some of the largest software systems in the world. You'll learn the principles and practices that enable Google engineers to make systems more scalable, reliable, and efficient—lessons directly applicable to your organization. This book is divided into four sections: Introduction—Learn what site reliability engineering is and why it differs from conventional IT industry practices Principles—Examine the patterns, behaviors, and areas of concern that influence the work of a site reliability engineer (SRE) Practices—Understand the theory and practice of an SRE's day-to-day work: building and operating large distributed computing systems Management—Explore Google's best practices for training, communication, and meetings that your organization can use **Agile Leadership Toolkit Learning to Thrive with Self-Managing Teams** [Addison-Wesley Professional](#) Practical, Proven Tools for Leading and Empowering High-Performing Agile Teams A leader is like a farmer, who doesn't grow crops by pulling them but instead creates the perfect environment for the crops to grow and thrive. If you lead in organizations that have adopted agile methods, you know it's crucial to create the right environment for your agile teams. Traditional tools such as Gantt charts, detailed plans, and internal KPIs aren't adequate for complex and fast-changing markets, but merely trusting employees and teams to self-manage is insufficient as well. In Agile Leadership Toolkit, longtime agile leader Peter Koning provides a practical and invaluable steering wheel for agile leaders and their teams. Drawing on his extensive experience helping leaders drive more value from agile, Koning offers a comprehensive toolkit for continuously improving your environment, including structures, metrics, meeting techniques, and governance for creating thriving teams that build disruptive products and services. Koning thoughtfully explains how to lead agile teams at large scale and how team members fit into both the team and the wider

organization. Architect environments that help teams learn, grow, and flourish for the long term Get timely feedback everyone can use to improve Co-create goals focused on the customer, not the internal organization Help teams brainstorm and visualize the value of their work to the customer Facilitate team ownership and accelerate team learning Support culture change, and design healthier team habits Make bigger changes faster This actionable guide is for leaders at all levels—whether you're supervising your first agile team, responsible for multiple teams, or lead the entire company. Register your book for convenient access to downloads, updates, and/or corrections as they become available. See inside book for details. **The Agile Culture Leading through Trust and Ownership** Addison-Wesley Professional Build Agile Cultures That Unleash Passion, Innovation, and Performance What do you want? Delighted customers. How do you get them? By rapidly delivering innovative, exciting products and services your customers will love to use. How do you do this? By uniting talented people around shared ideas and purpose, trusting them, helping them take ownership, and getting out of their way. It sounds easy—but you know it isn't. To make it happen, you must create an agile culture: one that's open to change and can respond quickly to whatever your customers need and desire. The Agile Culture gives you proven models, pragmatic tools, and handy worksheets for doing just that. Building on their experience helping hundreds of companies, three world-class experts help you align and unleash the talents of everyone in your organization. Step by step, you'll learn how to move toward a culture of trust, in which everyone knows, owns, and improves the results. You'll learn practical ways to refocus on differentiators and value, resurrect energy and innovation, deal more honestly with ambiguity and risk, and overcome resistance, no matter where it comes from. This text will help you go beyond buzzwords to transform the way you deliver software—so you can delight customers, colleagues, and executives. Coverage includes • Creating cultures of trust and ownership, in which individuals, teams, and organizations can do amazing things • Assessing where you stand, so you can move toward higher levels of performance, innovation, and motivation • Leading as an enabler, not a controller • Rebuilding trust where it's been lost—or building it where it never existed • Clarifying quickly the design goals of any project, product, or process • Using iteration to reduce risk and make commitments you can keep • Managing uncooperative people (and processes) • Selecting metrics that focus on business value, foster trust, and don't compromise ownership **Ace the IT Job Interview!** McGraw Hill Professional Land the IT job of your dreams with help from this insider guide. You'll discover valuable interview strategies for standing in the crowd as an applicant and learn best practices for representing your experience, education, previous employment, and re-entry into the workforce. Containing critical dos and don'ts from thousands of IT professionals and off-the-record interviews with hiring managers from key technology companies, this book will increase your chances of getting hired. **DevOps for Digital Leaders Reignite Business with a Modern DevOps-Enabled Software Factory** Apress Learn to design, implement, measure, and improve DevOps programs that are tailored to your organization. This concise guide assists leaders who are accountable for the rapid development of high-quality software applications. In DevOps for Digital Leaders, deep collective experience on both sides of the dev-ops divide informs the global thought leadership and penetrating insights of the

authors, all three of whom are cross-portfolio DevOps leaders at CA Technologies. Aruna Ravichandran, Kieran Taylor, and Peter Waterhouse analyze the organizational benefits, costs, freedoms, and constraints of DevOps. They chart the coordinated strategy of organizational change, metrics, lean thinking, and investment that an enterprise must undertake to realize the full potential of DevOps and reach the sweet spot where accelerating code deployments drive increasing customer satisfaction, revenue, and profitability. Digital leaders are charged to bridge the dev-ops disconnect if their organizations are to survive and flourish in a business world increasingly differentiated by the degree to which dynamic application software development harmonizes with operational resilience and reliability. This short book applies the DevOps perspective to the competitive challenge, faced by every high-performance IT organization today, of integrating and automating open source, cloud, and enterprise tools, processes, and techniques across the software development life cycle from requirements to release. What You Will Learn: Remove dependencies and constraints so that parallel practices can accelerate the development of defect-free software Automate continuous delivery across the software life cycle to eliminate release bottlenecks, manual labor waste, and technical debt accumulation Generate virtualized production-style testing of applications through real-time behavioral analytics Adopt agile practices so operations teams can support developer productivity with automated feedback, streamline infrastructure monitoring, spot and resolve operations issues before they impact production, and improve customer experience Identify the DevOps metrics appropriate to your organization and integrate DevOps with your existing best practices and investment Who This Book Is For: IT leaders in large companies and government agencies who have any level of responsibility for the rapid development of high-quality software applications. The secondary readership is members of development and operations teams, security professionals, and service managers. **The Practice of Cloud System Administration DevOps and SRE Practices for Web Services, Volume 2** Addison-Wesley Professional “There’s an incredible amount of depth and thinking in the practices described here, and it’s impressive to see it all in one place.” —Win Treese, coauthor of *Designing Systems for Internet Commerce* 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. Unsatisfied 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, Second Edition*, this guide offers expert coverage of the following and many other crucial topics: Designing and building modern web and distributed systems Fundamentals of large system design Understand the new software engineering implications of cloud administration Make systems that are resilient to failure and grow and scale dynamically Implement DevOps principles and cultural changes IaaS/PaaS/SaaS and virtual platform selection Operating and running systems using the latest DevOps/SRE strategies Upgrade production systems with zero down-time What and how to automate; how to decide what not to automate On-call best practices that

improve uptime Why distributed systems require fundamentally different system administration techniques Identify and resolve resiliency problems before they surprise you Assessing and evaluating your team's operational effectiveness Manage the scientific process of continuous improvement A forty-page, pain-free assessment system you can start using today **DevOps Culture and Practice with OpenShift Deliver continuous business value through people, processes, and technology** [Packt Publishing Ltd](#) A practical guide to making the best use of the OpenShift container platform based on the real-life experiences, practices, and culture within Red Hat Open Innovation Labs Key Features Learn how modern software companies deliver business outcomes that matter by focusing on DevOps culture and practices Adapt Open Innovation Labs culture and foundational practices from the Open Practice Library Implement a metrics-driven approach to application, platform, and product, understanding what to measure and how to learn and pivot Book Description DevOps Culture and Practice with OpenShift features many different real-world practices - some people-related, some process-related, some technology-related - to facilitate successful DevOps, and in turn OpenShift, adoption within your organization. It introduces many DevOps concepts and tools to connect culture and practice through a continuous loop of discovery, pivots, and delivery underpinned by a foundation of collaboration and software engineering. Containers and container-centric application lifecycle management are now an industry standard, and OpenShift has a leading position in a flourishing market of enterprise Kubernetes-based product offerings. DevOps Culture and Practice with OpenShift provides a roadmap for building empowered product teams within your organization. This guide brings together lean, agile, design thinking, DevOps, culture, facilitation, and hands-on technical enablement all in one book. Through a combination of real-world stories, a practical case study, facilitation guides, and technical implementation details, DevOps Culture and Practice with OpenShift provides tools and techniques to build a DevOps culture within your organization on Red Hat's OpenShift Container Platform. What you will learn Implement successful DevOps practices and in turn OpenShift within your organization Deal with segregation of duties in a continuous delivery world Understand automation and its significance through an application-centric view Manage continuous deployment strategies, such as A/B, rolling, canary, and blue-green Leverage OpenShift's Jenkins capability to execute continuous integration pipelines Manage and separate configuration from static runtime software Master communication and collaboration enabling delivery of superior software products at scale through continuous discovery and continuous delivery Who this book is for This book is for anyone with an interest in DevOps practices with OpenShift or other Kubernetes platforms. This DevOps book gives software architects, developers, and infra-ops engineers a practical understanding of OpenShift, how to use it efficiently for the effective deployment of application architectures, and how to collaborate with users and stakeholders to deliver business-impacting outcomes. **Engineering and Management of Data Centers An IT Service Management Approach** [Springer](#) This edited volume covers essential and recent development in the engineering and management of data centers. Data centers are complex systems requiring ongoing support, and their high value for keeping business continuity operations is crucial. The book presents core topics on the planning, design,

implementation, operation and control, and sustainability of a data center from a didactical and practitioner viewpoint. Chapters include: · Foundations of data centers: Key Concepts and Taxonomies · ITSDM: A Methodology for IT Services Design · Managing Risks on Data Centers through Dashboards · Risk Analysis in Data Center Disaster Recovery Plans · Best practices in Data Center Management Case: KIO Networks · QoS in NaaS (Network as a Service) using Software Defined Networking · Optimization of Data Center Fault-Tolerance Design · Energetic Data Centre Design Considering Energy Efficiency Improvements During Operation · Demand-side Flexibility and Supply-side Management: The Use Case of Data Centers and Energy Utilities · DevOps: Foundations and its Utilization in Data Centers · Sustainable and Resilient Network Infrastructure Design for Cloud Data Centres · Application Software in Cloud-Ready Data Centers This book bridges the gap between academia and the industry, offering essential reading for practitioners in data centers, researchers in the area, and faculty teaching related courses on data centers. The book can be used as a complementary text for traditional courses on Computer Networks, as well as innovative courses on IT Architecture, IT Service Management, IT Operations, and Data Centers. **Continuous Delivery Reliable Software Releases through Build, Test, and Deployment Automation (Adobe Reader)** Pearson Education 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. **How to Lead in Product Management: Practices to Align Stakeholders, Guide Development Teams, and Create Value Together** Pichler Consulting

*This book will help you become a better product leader. Benefitting from Roman Pichler's extensive experience, you will learn how to align stakeholders and guide development teams even in challenging circumstances, avoid common leadership mistakes, and grow as a leader. Written in an engaging and easily accessible style, How to Lead in Product Management offers a wealth of practical tips and strategies. Through helpful examples, the book illustrates how you can directly apply the techniques to your work. Coverage includes:*

- \* Choosing the right leadership style*
- \* Cultivating empathy, building trust, and influencing others*
- \* Increasing your authority and empowering others*
- \* Directing stakeholders and development teams through common goals*
- \* Making decisions that people will support and follow through*
- \* Successfully resolving disputes and conflicts even with senior stakeholders*
- \* Listening deeply to discover and address hidden needs and interests*
- \* Practising mindfulness and embracing a growth mindset to develop as a leader*

*Praise for How to Lead in Product Management: "Roman has done it again, delivering a practical book for the product management community that appeals to both heart and mind. How to Lead in Product Management is packed with concise, direct, and practical advice that addresses the deeper, personal aspects of the product leadership. Roman's book shares wisdom on topics including goals, healthy interactions with stakeholders, handling conflict, effective conversations, decision-making, having a growth mindset, and self-care. It is a must read for both new and experienced product people." ~Ellen Gottesdiener, Product Coach at EBG Consulting "Being a great product manager is tough. It requires domain knowledge, industry knowledge, technical skills, but also the skills to lead and inspire a team. Roman Pichler's How to Lead in Product Management is the best book I've read for equipping product managers to lead their teams." ~Mike Cohn, Author of Succeeding with Agile, Agile Estimating and Planning, and User Stories Applied "This is the book that has been missing for product people. Roman has created another masterpiece, a fast read with lots of value. It's a must read for every aspiring product manager." ~Magnus Billgren, CEO of Tolpagorni Product Management "How Lead in Product Management is for everyone who manages a product or drives important business decisions. Roman lays out the key challenges of product leadership and shows us ways of thoughtfully working with team members, stakeholders, partners, and the inevitable conflicts." ~Rich Mironov, CEO of Mironov Consulting and "Smokejumper" Head of Product*

**Infrastructure as Code** *"O'Reilly Media, Inc." Six years ago, Infrastructure as Code was a new concept. Today, as even banks and other conservative organizations plan moves to the cloud, development teams for companies worldwide are attempting to build large infrastructure codebases. With this practical book, Kief Morris of ThoughtWorks shows you how to effectively use principles, practices, and patterns pioneered by DevOps teams to manage cloud-age infrastructure. Ideal for system administrators, infrastructure engineers, software developers, team leads, and architects, this updated edition demonstrates how you can exploit cloud and automation technology to make changes easily, safely, quickly, and responsibly. You'll learn how to define everything as code and apply software design and engineering practices to build your system from small, loosely coupled pieces. This book covers: Foundations: Use Infrastructure as Code to drive continuous change and raise the bar of operational quality, using tools and technologies to build cloud-based platforms Working with infrastructure stacks: Learn*

how to define, provision, test, and continuously deliver changes to infrastructure resources Working with servers and other platforms: Use patterns to design provisioning and configuration of servers and clusters Working with large systems and teams: Learn workflows, governance, and architectural patterns to create and manage infrastructure elements **DevOps - A Business Perspective** [Van Haren](#) This book explains the management aspects of DevOps for those who are professionally engaged in information and technology management. It is written for IT specialists, IT managers and IT executives. It does not show DevOps as a phenomenon associated with new automation tools, programming techniques or technologies; It differs from other books by the structural nature of the narrative (perhaps, excessively structured) approach and by the attempt to cover fully the phenomenon of DevOps at a basic, fundamental level. By this approach, this book not only creates awareness of the new subject area but is also helps building the basics. The reader learns about the origins of DevOps, the inevitability of its emergence, the key prerequisites and their reflection in practices, about the practices themselves and the principles on which they are based. This book is the core literature of the EXIN DevOps Foundation certification. This exam tests the understanding of basic DevOps concepts and how they relate to each other, as well as the value of DevOps for the business. EXIN DevOps Foundation is the first level of the EXIN DevOps certification program. The EXIN DevOps Professional certification tests the knowledge of DevOps practices and how to integrate teams. The EXIN DevOps Master certification is about promoting organizational change and leading the way towards continuous delivery and improvement. **Office Optional How to Build a Connected Culture with Virtual Teams** Virtual work isn't the model of the future-it's here now. But many companies struggle with setting their employees free from the office without sacrificing culture. Centric Consulting president Larry English is here to guide the way. Twenty years ago, Larry and his friends weren't happy in their consulting jobs. The long hours took a serious toll on their personal lives. So they built their own company where employees could work virtually and the culture would contribute to both the business's success and employee happiness. Since then, Centric Consulting has expanded to over 1,000 team members with operations in 12 US cities and India-and everyone works remotely some or most of the time. As Larry unpacks everything he's discovered about creating and sustaining a culture of collaborative teams, you'll learn: How and why you need to cultivate an atmosphere of trust in a virtual environment How to recruit and hire team members for remote work How to build strong relationships with people you don't see every day How to scale your virtual company without sacrificing culture How the right software tools can help build culture How to be a great virtual team member Sprinkled with funny, insightful stories from Larry and other Centric employees, **Office Optional: How to Build a Connected Culture with Virtual Teams** is the ultimate guidebook to remote work and a successful virtual culture. **DevOps Master Courseware** [Van Haren](#) Besides the DevOps Master Courseware (ISBN: 978 94 018 313 7) publication you are advised to obtain the publication *The DevOps Handbook: How to Create World-Class Agility, Reliability, and Security in Technology Organizations* (ISBN: 978 19 427 8800 3). The word DevOps is a contraction of 'Development' and 'Operations'. DevOps is a set of best practices that emphasize the collaboration and communication of IT-professionals (developers, operators, and

support staff) in the lifecycle of applications and services, leading to:

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

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

- The First Way is to enable the work to move fast from left to right, from Development to Operations to the customer.
- The Second Way is to enable feedback to go fast from right to left, from all stakeholders back into the value stream.
- The Third Way is to enable learning by creating a high-trust culture of experimentation and risk-taking.

Moreover, the crucial subjects of security in all stages, and maintaining compliance during change are covered. The certification has been developed in cooperation with experts in the DevOps work field. Recommended per knowledge: Pre-knowledge of Agile, Lean and/or IT Service Management, for instance through the EXIN Agile Scrum Foundation exam, LITA Lean IT Foundation exam or EXIN IT Service Management Foundation based on ISO/IEC 20000 exam, is recommended.

**DevOps for Airborne Software Exploring Modern Approaches** Springer Nature  
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.

**Software Engineering Aspects of Continuous Development and New Paradigms of Software Production and Deployment First International Workshop, DEVOPS 2018, Chateau de Villebrumier, France, March 5-6, 2018, Revised Selected Papers** Springer  
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, held at the Chateau 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. **Dependability Engineering BoD – Books on Demand** The new technology and system communication advances are being employed in any system, being more complex. The system dependability considers the technical complexity, size, and interdependency of the system. The stochastic characteristic together with the complexity of the systems as dependability requires to be under control the Reliability, Availability, Maintainability, and Safety (RAMS). The dependability contemplates, therefore, the faults/failures, downtimes, stoppages, worker errors, etc. Dependability also refers to emergent properties, i.e., properties generated indirectly from other systems by the system analyzed. Dependability, understood as general description of system performance, requires advanced analytics that are considered in this book. Dependability management and engineering are covered with case studies and best practices. The diversity of the issues will be covered from algorithms, mathematical models, and software engineering, by design methodologies and technical or practical solutions. This book intends to provide the reader with a comprehensive overview of the current state of the art, case studies, hardware and software solutions, analytics, and data science in dependability engineering. **Future Intent-Based Networking On the QoS Robust and Energy Efficient Heterogeneous Software Defined Networks Springer Nature** 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! **Future-Proof Software-Systems A Sustainable Evolution Strategy Springer** This book focuses on software architecture

and the value of architecture in the development of long-lived, mission-critical, trustworthy software-systems. The author introduces and demonstrates the powerful strategy of "Managed Evolution," along with the engineering best practice known as "Principle-based Architecting." The book examines in detail architecture principles for e.g., Business Value, Changeability, Resilience, and Dependability. The author argues that the software development community has a strong responsibility to produce and operate useful, dependable, and trustworthy software. Software should at the same time provide business value and guarantee many quality-of-service properties, including security, safety, performance, and integrity. As Dr. Furrer states, "Producing dependable software is a balancing act between investing in the implementation of business functionality and investing in the quality-of-service properties of the software-systems." The book presents extensive coverage of such concepts as: Principle-Based Architecting Managed Evolution Strategy The Future Principles for Business Value Legacy Software Modernization/Migration Architecture Principles for Changeability Architecture Principles for Resilience Architecture Principles for Dependability The text is supplemented with numerous figures, tables, examples and illustrative quotations. Future-Proof Software-Systems provides a set of good engineering practices, devised for integration into most software development processes dedicated to the creation of software-systems that incorporate Managed Evolution. **On the Move to Meaningful Internet Systems. OTM 2018 Conferences Confederated International Conferences: CoopIS, C&TC, and ODBASE 2018, Valletta, Malta, October 22-26, 2018, Proceedings, Part I Springer** This double volumes LNCS 11229-11230 constitutes the refereed proceedings of the Confederated International Conferences: Cooperative Information Systems, CoopIS 2018, Ontologies, Databases, and Applications of Semantics, ODBASE 2018, and Cloud and Trusted Computing, C&TC, held as part of OTM 2018 in October 2018 in Valletta, Malta. The 64 full papers presented together with 22 short papers were carefully reviewed and selected from 173 submissions. The OTM program every year covers data and Web semantics, distributed objects, Web services, databases, informationsystems, enterprise workflow and collaboration, ubiquity, interoperability, mobility, grid and high-performance computing. **Technical Debt in Practice How to Find It and Fix It MIT Press** The practical implications of technical debt for the entire software lifecycle; with examples and case studies. Technical debt in software is incurred when developers take shortcuts and make ill-advised technical decisions in the initial phases of a project, only to be confronted with the need for costly and labor-intensive workarounds later. This book offers advice on how to avoid technical debt, how to locate its sources, and how to remove it. It focuses on the practical implications of technical debt for the entire software life cycle, with examples and case studies from companies that range from Boeing to Twitter. Technical debt is normal; it is part of most iterative development processes. But if debt is ignored, over time it may become unmanageably complex, requiring developers to spend all of their effort fixing bugs, with no time to add new features--and after all, new features are what customers really value. The authors explain how to monitor technical debt, how to measure it, and how and when to pay it down. Broadening the conventional definition of technical debt, they cover requirements debt, implementation debt, testing debt, architecture debt, documentation debt, deployment

debt, and social debt. They intersperse technical discussions with "Voice of the Practitioner" sidebars that detail real-world experiences with a variety of technical debt issues. **Cloud FinOps Collaborative, Real-Time Cloud Financial Management** "O'Reilly Media, Inc." Despite many uncertainties in cloud computing, one truth is evident: costs will always tend to go up unless you're actively engaged in the process. Whether you're new to managing cloud spend or a seasoned pro, this book will clarify the often misunderstood workings of cloud billing fundamentals and provide expert strategies on creating a culture of cloud cost management in your organization. Drawing on real-world examples of successes and failures of large-scale cloud spenders, this book outlines a road map for building a culture of FinOps in your organization. Beginning with the fundamental concepts required to understand cloud billing concepts, you'll learn how to enable an efficient and effective FinOps machine. Learn how the cloud works when it comes to financial management Set up a FinOps team and build a framework for making spend efficiency a priority Examine the anatomy of a cloud bill and learn how to manage it Get operational recipes for maximizing cloud efficiency Understand how to motivate engineering teams to take cost-saving actions Explore the FinOps lifecycle: Inform, Optimize, and Operate Learn the DNA of a highly functional cloud FinOps culture **Innovative Data Communication Technologies and Application Proceedings of ICIDCA 2020** Springer Nature This book presents the latest research in the fields of computational intelligence, ubiquitous computing models, communication intelligence, communication security, machine learning, informatics, mobile computing, cloud computing and big data analytics. The best selected papers, presented at the International Conference on Innovative Data Communication Technologies and Application (ICIDCA 2020), are included in the book. The book focuses on the theory, design, analysis, implementation and applications of distributed systems and networks.