

5 Cs Of Devops Wordpress

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The DevOps Handbook - Gene Kim 2016-10-06

Increase profitability, elevate work culture, and exceed productivity goals through DevOps practices. More than ever, the effective management of technology is critical for business competitiveness. For decades, technology leaders have struggled to balance agility, reliability, and security. The consequences of failure have never been greater—whether it's the healthcare.gov debacle, cardholder data breaches, or missing the boat with Big Data in the cloud. And yet, high performers using DevOps principles, such as Google, Amazon, Facebook, Etsy, and Netflix, are routinely and reliably deploying code into production hundreds, or even thousands, of times per day. Following in the footsteps of The Phoenix Project, The DevOps Handbook shows leaders how to replicate these incredible outcomes, by showing how to integrate Product Management, Development, QA, IT Operations, and Information Security to elevate your company and win in the marketplace.

[Building Your Next Big Thing with Google Cloud Platform](#) - Jose Ugia Gonzalez 2015-06-15

Building Your Next Big Thing with Google Cloud Platform shows you how to take advantage of the Google Cloud Platform technologies to build all kinds of cloud-hosted software and services for both public and private consumption. Whether you need a simple virtual server to run your legacy application or you need to architect a sophisticated high-traffic web application, Cloud Platform provides all the tools and products required to create innovative applications and a robust infrastructure to manage them. Google is known for the scalability, reliability, and efficiency of its various online products, from

Google Search to Gmail. And, the results are impressive. Google Search, for example, returns results literally within fractions of second. How is this possible? Google custom-builds both hardware and software, including servers, switches, networks, data centers, the operating system's stack, application frameworks, applications, and APIs. Have you ever imagined what you could build if you were able to tap the same infrastructure that Google uses to create and manage its products? Now you can! Building Your Next Big Thing with Google Cloud Platform shows you how to take advantage of the Google Cloud Platform technologies to build all kinds of cloud-hosted software and services for both public and private consumption. Whether you need a simple virtual server to run your legacy application or you need to architect a sophisticated high-traffic web application, Cloud Platform provides all the tools and products required to create innovative applications and a robust infrastructure to manage them. Using this book as your compass, you can navigate your way through the Google Cloud Platform and turn your ideas into reality. The authors, both Google Developer Experts in Google Cloud Platform, systematically introduce various Cloud Platform products one at a time and discuss their strengths and scenarios where they are a suitable fit. But rather than a manual-like "tell all" approach, the emphasis is on how to Get Things Done so that you get up to speed with Google Cloud Platform as quickly as possible. You will learn how to use the following technologies, among others: Google Compute Engine Google App Engine Google Container Engine Google App Engine Managed VMs Google Cloud SQL Google Cloud Storage Google

Cloud Datastore Google BigQuery Google Cloud Dataflow Google Cloud DNS Google Cloud Pub/Sub Google Cloud Endpoints Google Cloud Deployment Manager Author on Google Cloud Platform Google APIs and Translate API Using real-world examples, the authors first walk you through the basics of cloud computing, cloud terminologies and public cloud services. Then they dive right into Google Cloud Platform and how you can use it to tackle your challenges, build new products, analyze big data, and much more. Whether you're an independent developer, startup, or Fortune 500 company, you have never had easier to access to world-class production, product development, and infrastructure tools. Google Cloud Platform is your ticket to leveraging your skills and knowledge into making reliable, scalable, and efficient products—just like how Google builds its own products.

CISSP Study Guide - Eric Conrad 2015-12-08
CISSP Study Guide, Third Edition provides readers with information on the CISSP certification, the most prestigious, globally-recognized, vendor-neutral exam for information security professionals. With over 100,000 professionals certified worldwide, and many more joining their ranks, this new third edition presents everything a reader needs to know on the newest version of the exam's Common Body of Knowledge. The eight domains are covered completely and as concisely as possible, allowing users to ace the exam. Each domain has its own chapter that includes a specially-designed pedagogy to help users pass the exam, including clearly-stated exam objectives, unique terms and definitions, exam warnings, "learning by example" modules, hands-on exercises, and chapter ending questions. Provides the most complete and effective study guide to prepare users for passing the CISSP exam, giving them exactly what they need to pass the test Authored by Eric Conrad who has prepared hundreds of professionals for passing the CISSP exam through SANS, a popular and well-known organization for information security professionals Covers all of the new information in the Common Body of Knowledge updated in January 2015, and also provides two exams, tiered end-of-chapter questions for a gradual learning curve, and a complete self-test

appendix

The Art of Agile Development - James Shore 2008

For those considering Extreme Programming, this book provides no-nonsense advice on agile planning, development, delivery, and management taken from the authors' many years of experience. While plenty of books address the what and why of agile development, very few offer the information users can apply directly.

Official (ISC)2 Guide to the CISSP CBK - Adam Gordon 2015-04-08

As a result of a rigorous, methodical process that (ISC) follows to routinely update its credential exams, it has announced that enhancements will be made to both the Certified Information Systems Security Professional (CISSP) credential, beginning April 15, 2015. (ISC) conducts this process on a regular basis to ensure that the examinations and

Product-Focused Software Process

Improvement - Pekka Abrahamsson 2016-11-15

This book constitutes the proceedings of the 17th International Conference on Product-Focused Software Process Improvement, PROFES 2016, held in Trondheim, Norway, in November 2016. The 24 revised full papers presented together with 21 short papers, 1 keynote, 3 invited papers, 5 workshop papers, 2 doctoral symposium papers, and 6 tutorials were carefully reviewed and selected from 82 submissions. The papers are organized in topical sections on Early Phases in Software Engineering; Organizational Models; Architecture; Methods and Tools; Verification and Validation; Process Improvement; Speed and Agility in System Engineering; Requirements and Quality; Process and Repository Mining; Business Value and Benefits; Emerging Research Topics; and Future of Computing.

Jakarta EE Cookbook - Elder Moraes 2020-05-29

An enterprise Java developer's guide to learning JAX-RS, context and dependency injection, JavaServer Faces (JSF), and microservices with Eclipse MicroProfile using the latest features of Jakarta EE Key Features Explore Jakarta EE's latest features and API specifications and discover their benefits Build and deploy microservices using Jakarta EE 8 and Eclipse MicroProfile Build robust RESTful web services

for various enterprise scenarios using the JAX-RS, JSON-P, and JSON-B APIs. Jakarta EE is widely used around the world for developing enterprise applications for a variety of domains. With this book, Java professionals will be able to enhance their skills to deliver powerful enterprise solutions using practical recipes. This second edition of the Jakarta EE Cookbook takes you through the improvements introduced in its latest version and helps you get hands-on with its significant APIs and features used for server-side development. You'll use Jakarta EE for creating RESTful web services and web applications with the JAX-RS, JSON-P, and JSON-B APIs and learn how you can improve the security of your enterprise solutions. Not only will you learn how to use the most important servers on the market, but you'll also learn to make the best of what they have to offer for your project. From an architectural point of view, this Jakarta book covers microservices, cloud computing, and containers. It allows you to explore all the tools for building reactive applications using Jakarta EE and core Java features such as lambdas. Finally, you'll discover how professionals can improve their projects by engaging with and contributing to the community. By the end of this book, you'll have become proficient in developing and deploying enterprise applications using Jakarta EE. What you will learn

Work with Jakarta EE's most commonly used APIs and features for server-side development

Enable fast and secure communication in web applications with the help of HTTP2

Build enterprise applications with reusable components

Break down monoliths into microservices using Jakarta EE and Eclipse MicroProfile

Improve your enterprise applications with multithreading and concurrency

Run applications in the cloud with the help of containers

Get to grips with continuous delivery and deployment for shipping your applications effectively

Who this book is for

This book is for Java EE developers who want to build enterprise applications or update their legacy apps with Jakarta EE's latest features and specifications. Some experience of working with Java EE and knowledge of web and cloud computing will assist with understanding the concepts covered in this book.

Virtual Machines - James Edward Smith

2005-06-03

In this text, Smith and Nair take a new approach by examining virtual machines as a unified discipline and pulling together cross-cutting technologies. Topics include instruction set emulation, dynamic program translation and optimization, high level virtual machines (including Java and CLI), and system virtual machines for both single-user systems and servers.

The DevOps Handbook, Second Edition - Gene Kim 2021-11-30

This award-winning and bestselling business handbook for digital transformation is now fully updated and expanded with the latest research and new case studies! Over the last five years, The DevOps Handbook has been the definitive guide for taking the successes laid out in the bestselling The Phoenix Project and applying them in any organization. Now, with this fully updated and expanded edition, it's time to take DevOps out of the IT department and apply it across the full business. Technology is now at the core of every company, no matter the business model or product. The theories and practices laid out in The DevOps Handbook are tools to be used by anyone from across the organization to create joy and succeed in the marketplace. The second edition features fifteen new case studies, including stories from adidas, American Airlines, Fannie Mae, Target, and the US Air Force. In addition, renowned researcher and coauthor of Accelerate, Nicole Forsgren, PhD, provides her insights through new and updated material and research. With over 100 pages of new content throughout the book, this expanded edition is a must read for anyone who works with technology.

Microsoft Azure Security Center - Yuri Diogenes 2018-06-04

Discover high-value Azure security insights, tips, and operational optimizations This book presents comprehensive Azure Security Center techniques for safeguarding cloud and hybrid environments. Leading Microsoft security and cloud experts Yuri Diogenes and Dr. Thomas Shinder show how to apply Azure Security Center's full spectrum of features and capabilities to address protection, detection, and response in key operational scenarios. You'll learn how to secure any Azure workload, and

optimize virtually all facets of modern security, from policies and identity to incident response and risk management. Whatever your role in Azure security, you'll learn how to save hours, days, or even weeks by solving problems in most efficient, reliable ways possible. Two of Microsoft's leading cloud security experts show how to:

- Assess the impact of cloud and hybrid environments on security, compliance, operations, data protection, and risk management
- Master a new security paradigm for a world without traditional perimeters
- Gain visibility and control to secure compute, network, storage, and application workloads
- Incorporate Azure Security Center into your security operations center
- Integrate Azure Security Center with Azure AD Identity Protection Center and third-party solutions
- Adapt Azure Security Center's built-in policies and definitions for your organization
- Perform security assessments and implement Azure Security Center recommendations
- Use incident response features to detect, investigate, and address threats
- Create high-fidelity fusion alerts to focus attention on your most urgent security issues
- Implement application whitelisting and just-in-time VM access
- Monitor user behavior and access, and investigate compromised or misused credentials
- Customize and perform operating system security baseline assessments
- Leverage integrated threat intelligence to identify known bad actors

Making Work Visible - Dominica DeGrandis
2017-10-03

Information Technology time management expert Dominica DeGrandis, the reveals the real crime of the century--time theft, one of the most costly factors impacting enterprises in their day-to-day operations. The solution to preventing these value stream delays? Make the work visible. In this timely book (title not final), solutions and preventative measures are illustrated and methodologies outlined for immediate application into daily work.

[Managing Kubernetes Resources Using Helm](#) - Andrew Block 2022-09-30

Reduce the complexity of managing applications on Kubernetes and develop an enterprise pattern for application delivery Key Features Learn best practices from the core maintainer of

Helm for application delivery and life cycle management Manage applications deployed in Kubernetes effectively using Helm Go beyond the basics when using Helm with key security considerations and management options Book Description Containerization is one of the best ways to implement DevOps, and learning how to execute it effectively is an essential part of a developer's skillset. Kubernetes is the current industry standard for container orchestration. This book will help you discover the efficiency of managing applications running on Kubernetes with Helm. Starting with a brief introduction to Helm and its impact on users working with containers and Kubernetes, you'll delve into the primitives of Helm charts and their architecture and use cases. From there, you'll understand how to write Helm charts in order to automate application deployment on Kubernetes and work your way toward more advanced strategies. These enterprise-ready patterns are focused on concepts beyond the basics so that you can use Helm optimally, looking at topics related to automation, application development, delivery, lifecycle management, and security. By the end of this book, you'll have learned how to leverage Helm to build, deploy, and manage applications on Kubernetes. What you will learn Understand how to deploy applications on Kubernetes with ease Package dynamic applications for deployment on Kubernetes Integrate Helm into an existing software release process Develop an enterprise automation strategy on Kubernetes using Helm Use Helm within a Helm Kubernetes operator Leverage Helm in a secure and stable manner that fits the enterprise Discover the ins and outs of automation with Helm Who this book is for This book is for Kubernetes developers or administrators who are interested in learning Helm to provide automation for app development on Kubernetes. Although no prior knowledge of Helm is required, basic knowledge of Kubernetes application development will be useful.

[Statistics and Data Science](#) - Hien Nguyen
2020-01-03

This book constitutes the proceedings of the Research School on Statistics and Data Science, RSSDS 2019, held in Melbourne, VIC, Australia, in July 2019. The 11 papers presented in this book were carefully reviewed and selected from

23 submissions. The volume also contains 7 invited talks. The workshop brought together academics, researchers, and industry practitioners of statistics and data science, to discuss numerous advances in the disciplines and their impact on the sciences and society. The topics covered are data analysis, data science, data mining, data visualization, bioinformatics, machine learning, neural networks, statistics, and probability.

Agility Shift - Pamela Meyer 2016-11-03

As contrary as it sounds, "planning" -- as we traditionally understand the term--can be the worst thing a company can do. Consider that volatile weather events disrupt trusted supply chains, markets, and promised delivery schedules. Ever-shifting geo-political tensions, as well as internal political upheaval within U.S. and global governments, derail long-planned new ventures. Technology failures block opportunities. Competitors suddenly change their product or release date; your team cannot meet the pace of innovations in your market niche, leaving you sidelined. There are myriad ways in the current business environment for a company's well-considered business plans to go awry. Most business schools continue to prepare managers to be effective in stable and predictable environments, conditions that, if they ever existed at all, are long gone. The Agility Shift shows business leaders exactly how to make the radical mindset and strategy shift necessary to create an agile, entrepreneurial organization that can innovate and thrive in complex, ever-changing contexts. As author Pamela Meyer explains, there is much more involved than a reconfiguration of the org chart and job descriptions. It requires relinquishing the illusion of control at the very foundation of most management training and business practice. Despite most leaders' approaches, "Agility is not simply accelerated planning." Unlike many agility books on the market, The Agility Shift provides specific, actionable strategies and tactics for leaders at all levels of the organization to put into practice immediately to improve agility and achieve results.

The Art of Monitoring - James Turnbull 2014-12

A hands-on and introductory guide to the art of modern application and infrastructure

monitoring and metrics. We start small and then build on what you learn to scale out to multi-site, multi-tier applications. The book is written for both developers and sysadmins. We focus on building monitored and measurable applications. We also use tools that are designed to handle the challenges of managing Cloud, containerised and distributed applications and infrastructure. In the book we'll deliver: * An introduction to monitoring, metrics and measurement. * A scalable framework for monitoring hosts (including Docker and containers), services and applications built on top of the Riemann event stream processor. * Graphing and metric storage using Graphite and Grafana. * Logging with Logstash. * A framework for high quality and useful notifications * Techniques for developing and building monitorable applications * A capstone that puts all the pieces together to monitor a multi-tier application.

Cycles - Bryan Cassady 2021-10-26

Change the way you think about innovation and give yourself every chance of success! There are lots of books, courses, and videos on innovation. They are fun and usually motivating, but seldom deliver long-term results. Cycles is a fun book, but more importantly, it explains how to innovate at every stage. Consistent winners are idea builders that make good or even mediocre ideas great over time. With Cycles you'll learn by doing how to grow ideas up to 6x faster while cutting risks by over 50%. This book brings together 4 years of research and the work of 22 innovation experts into a simple system with easy-to-use canvases and tools. The foundation of this system is thinking of idea building as an ongoing process of cycles. Some cycles are short, and some are long. The best cycles include the ABCs of innovation. A = Align B = Build Ideas C = Communicate and Check S = Systematically Improve This system ties the theories and research from hundreds of books into something easy to understand and something you can do right now. If you want to be a better innovator, Cycles will change the way you think about innovation. More importantly, with easy hands-on tools, Cycles will make it easier to innovate faster while reducing risks. A straightforward and effective method that you can start applying right away! ABOUT THE AUTHOR Bryan Cassady is a long-

time entrepreneur and has built successful businesses in six countries. His success rate is eight successful businesses from eleven tries. For more than ten years, he has been teaching Innovation and Entrepreneurship at leading business schools around the world (KU Leuven, Solvay, EDHEC), led some of the world's largest and most successful accelerator programs (The Founder Institute and the European Innovation Academy), and coached over 400 companies. He is currently working on the Global Entrepreneurship Alliance- a foundation being set up to train 1 million entrepreneurs by 2027.

Continuous Architecture in Practice - Murat Erder 2021-04

In *Continuous Architecture in Practice*, three leading software architecture experts update the discipline's classic practices for today's environments, software development contexts, and applications. Coverage includes: Discover what's changed, and how the architect's role must change Reflect today's quality attributes in evolvable architectures Understand team-based software architecture, and architecture as a "flow of decisions" Architect for security, including continuous threat modeling and mitigation Explore architectural opportunities to improve performance in continuous delivery environments Architect for scalability, avoid common scalability pitfalls, and scale microservices and serverless environments Improve resilience and reliability in the face of inevitable failures Architect data for NoSQL, big data, and analytics Use architecture to promote innovation: case studies in AI/ML, chatbots, and blockchain

Successful Project Sponsorship - Michiel van der Molen 2015-09-03

Project success is a business management responsibility and project management is more than the work of a project manager: the project sponsor plays a key role, whatever their job title. As the owner of the business case, the project sponsor or project executive has the responsibility for communicating the aims of the project, staying in touch with the changing environment and ultimately using their leadership skills to realize the benefits that the project has set out to achieve. The project sponsor gives strategic direction to the project manager and empowers them to deliver the

agreed result. However, as a busy business manager, balancing the role of project executive with other management responsibilities, the project sponsor wants more control for less effort. The four proven principles in *Successful Project Sponsorship* help them to achieve precisely that. This book leads the reader to success through the powerful and proven four principles of successful project sponsorship. These principles are all focused on giving strategic direction to projects effectively and efficiently. Instead of going into depth on project management theory and methodologies, this book answers the practical questions project sponsors have to tackle and provides targeted solutions to real-life issues, such as: How do I create a successful strategy? How do I keep a project under control when the requirements are changing? What can I do to keep the project on budget? How do I recognize a good project manager - and how do I deal with an out-of-control one? The final part of the book gives tried-and-tested practical guidance on how to improve project sponsorship knowledge within your organization. Written clearly and concisely for the busy executive, in line with the PMI's Lexicon of Project Management Terms and with special tips for Prince2 environments and agile projects, this highly practical guide is the essential toolkit all business managers need to make a success of their project sponsor role.

Sponsoring Change - 2010

Sponsoring Change applies to all types of organisations and sectors. Its use will improve governance, bringing greater rewards to organisations undertaking significant projects as well as to their owners and to wider stakeholders.

Project Sponsorship - Alfonso Bucero 2015-10-01

The second edition of *Project Sponsorship*—which includes an Appendix with new case studies, expanded assessment tools, and templates—shows how project sponsors and project managers can develop the skills they need to manage successful projects. Randall L. Englund and Alfonso Bucero—experts in the field of project management—have written the definitive guide for educating all stakeholders on the nature of project sponsorship. They describe in detail the responsibilities of the project

sponsor, from communications and liaison, selection and training, problem solving, mentoring, and feedback, to the review of project execution. The project sponsor and manager learn how to negotiate effectively with each other and the project team to achieve their commitments.

Building the Hyperconnected Society- Internet of Things Research and Innovation Value Chains, Ecosystems and Markets - Ovidiu Vermesan
2022-09-01

This book aims to provide a broad overview of various topics of Internet of Things (IoT), ranging from research, innovation and development priorities to enabling technologies, nanoelectronics, cyber-physical systems, architecture, interoperability and industrial applications. All this is happening in a global context, building towards intelligent, interconnected decision making as an essential driver for new growth and co-competition across a wider set of markets. It is intended to be a standalone book in a series that covers the Internet of Things activities of the IERC - Internet of Things European Research Cluster from research to technological innovation, validation and deployment. The book builds on the ideas put forward by the European Research Cluster on the Internet of Things Strategic Research and Innovation Agenda, and presents global views and state of the art results on the challenges facing the research, innovation, development and deployment of IoT in future years. The concept of IoT could disrupt consumer and industrial product markets generating new revenues and serving as a growth driver for semiconductor, networking equipment, and service provider end-markets globally. This will create new application and product end-markets, change the value chain of companies that creates the IoT technology and deploy it in various end sectors, while impacting the business models of semiconductor, software, device, communication and service provider stakeholders. The proliferation of intelligent devices at the edge of the network with the introduction of embedded software and app-driven hardware into manufactured devices, and the ability, through embedded software/hardware developments, to monetize those device functions and features by offering

novel solutions, could generate completely new types of revenue streams. Intelligent and IoT devices leverage software, software licensing, entitlement management, and Internet connectivity in ways that address many of the societal challenges that we will face in the next decade.

The Phoenix Project - Gene Kim 2018-02-06
Over a half-million sold! The sequel, The Unicorn Project, is coming Nov 26 "Every person involved in a failed IT project should be forced to read this book."—TIM O'REILLY, Founder & CEO of O'Reilly Media "The Phoenix Project is a must read for business and IT executives who are struggling with the growing complexity of IT."—JIM WHITEHURST, President and CEO, Red Hat, Inc. Five years after this sleeper hit took on the world of IT and flipped it on 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-author Gene Kim includes a new afterword and a deeper delve into the Three Ways as described in The DevOps Handbook. Bill, an IT manager at Parts Unlimited, has been tasked with taking on a project critical to the future of the business, code named Phoenix Project. But the project is massively over budget and behind schedule. The CEO demands Bill must fix the mess in ninety days or else Bill's entire department will be outsourced. With the help of a prospective board member and his mysterious philosophy of The Three Ways, Bill starts to see that IT work has more in common with a manufacturing plant work than he ever imagined. With the clock ticking, Bill must organize work flow streamline interdepartmental communications, and effectively serve the other business functions at Parts Unlimited. In a fast-paced and entertaining style, three luminaries of the DevOps movement deliver a story that anyone who works in IT will recognize. Readers will not only learn how to improve their own IT organizations, they'll never view IT the same way again. "This book is a gripping read that captures brilliantly the dilemmas that face companies which depend on IT, and offers real-world solutions."—JEZ HUMBLE, Co-author of Continuous Delivery, Lean Enterprise, Accelerate, and The DevOps

Handbook ——— “I’m delighted at how The Phoenix Project has reshaped so many conversations in technology. My goal in writing The Unicorn Project was to explore and reveal the necessary but invisible structures required to make developers (and all engineers) productive, and reveal the devastating effects of technical debt and complexity. I hope this book can create common ground for technology and business leaders to leave the past behind, and co-create a better future together.”—Gene Kim, November 2019

(ISC)2 CCSP Certified Cloud Security Professional Official Practice Tests - Ben Malisow 2020-01-27

The only official CCSP practice test product endorsed by (ISC)2 With over 1,000 practice questions, this book gives you the opportunity to test your level of understanding and gauge your readiness for the Certified Cloud Security Professional (CCSP) exam long before the big day. These questions cover 100% of the CCSP exam domains, and include answers with full explanations to help you understand the reasoning and approach for each. Logical organization by domain allows you to practice only the areas you need to bring you up to par, without wasting precious time on topics you’ve already mastered. As the only official practice test product for the CCSP exam endorsed by (ISC)2, this essential resource is your best bet for gaining a thorough understanding of the topic. It also illustrates the relative importance of each domain, helping you plan your remaining study time so you can go into the exam fully confident in your knowledge. When you’re ready, two practice exams allow you to simulate the exam day experience and apply your own test-taking strategies with domains given in proportion to the real thing. The online learning environment and practice exams are the perfect way to prepare, and make your progress easy to track.

PRINCE2™ In Practice - Henny Portman 2009-05-15

There are many publications on PRINCE2. Most of these publications describe the theory of PRINCE2. This book however deals with a practical approach for formal reports: how it can be achieved that PRINCE2 works better in practice? The existing PRINCE2 report

templates cannot be used easily. Of course the process approach in PRINCE2 remains viable, but in this book the PRINCE2 documents are the key. The reader gets a practical help for implementing PRINCE2. This helps project managers and project executives to manage and control in an efficient manner.

ENGINEERING DESIGN PADA SISTEM INFORMASI - Ridi Ferdiana 2021-10-19

Berkembangnya rekayasa sistem informasi di era industri 4.0 memang meyakinkan. Sistem informasi yang dahulu kala hanya bagi perusahaan dan usaha kecil menengah kini merambah ke individual. Ditambah dengan kemampuan kecerdasan buatan, integrasi berbagai sistem lain dan kapabilitas cloud computing membuat rekayasa sistem informasi masuk ke babak baru pengembangan tanpa batas, namun penuh tantangan. Buku ini adalah buku hybrid yang menggabungkan teori konvensional dengan implementasi modern di era industri 4.0. Buku ini dirancang bagi mahasiswa teknik informasi, teknologi informasi, sistem informasi, ilmu komputer, atau rekayasa perangkat lunak yang hendak memperdalam rekayasa sistem informasi modern. Pada buku ini akan dipelajari mengenai konsep business process reengineering, dasar rekayasa sistem informasi, manajemen proyek sistem informasi, DevOps di proyek sistem informasi, engineering design pada sistem informasi, dan praktik penerapan engineering design dengan DevOps. Selamat menempuh perjalanan rekayasa sistem informasi modern!

Humble Inquiry - Edgar H. Schein 2013-09-02
Communication is essential in a healthy organization. But all too often when we interact with people—especially those who report to us—we simply tell them what we think they need to know. This shuts them down. To generate bold new ideas, to avoid disastrous mistakes, to develop agility and flexibility, we need to practice Humble Inquiry. Ed Schein defines Humble Inquiry as “the fine art of drawing someone out, of asking questions to which you do not know the answer, of building a relationship based on curiosity and interest in the other person.” In this seminal work, Schein contrasts Humble Inquiry with other kinds of inquiry, shows the benefits Humble Inquiry provides in many different settings, and offers

advice on overcoming the cultural, organizational, and psychological barriers that keep us from practicing it.

Beginning DevOps with Docker - Joseph Muli
2018-05-29

It can be tough to roll out a pre-configured environment if you don't know what you're doing. We'll show you how to streamline your service options with Docker, so that you can scale in an agile, responsive manner. Key Features Learn how to structure your own Docker containers Create and manage multiple configuration images Understand how to scale and deploy bespoke environments Book Description Making sure that your application runs across different systems as intended is quickly becoming a standard development requirement. With Docker, you can ensure that what you build will behave the way you expect it to, regardless of where it's deployed. By guiding you through Docker from start to finish (from installation, to the Docker Registry, all the way through to working with Docker Swarms), we'll equip you with the skills you need to migrate your workflow to Docker with complete confidence. What you will learn Learn to design and build containers for different kinds of applications Create a testing environment to identify issues that may cause production deployments to fail Discover how you can correctly structure and manage a multi-tier environment Run, debug, and experiment with example applications in Docker containers Who this book is for This book is ideal for developers, system architects and site reliability engineers (SREs) who wish to adopt a Docker-based workflow for consistency, speed and isolation of system resources within their applications. You'll need to be comfortable working with the command line.

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

to use different team patterns • How to evolve teams effectively. • How to split software and align to teams.

Handbook of Research on End-to-End Cloud Computing Architecture Design - Chen, Jianwen "Wendy" 2016-10-06

Cloud computing has become integrated into all sectors, from business to quotidian life. Since it has revolutionized modern computing, there is a need for updated research related to the architecture and frameworks necessary to maintain its efficiency. The *Handbook of Research on End-to-End Cloud Computing Architecture Design* provides architectural design and implementation studies on cloud computing from an end-to-end approach, including the latest industrial works and extensive research studies of cloud computing. This handbook enumerates deep dive and systemic studies of cloud computing from architecture to implementation. This book is a comprehensive publication ideal for programmers, IT professionals, students, researchers, and engineers.

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 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.

16th European Conference on Innovation and Entrepreneurship Vol 2 - Dr. Florinda Matos 2021-09-16

Azure DevOps Explained - Sjoukje Zaal 2020-12-11

Implement real-world DevOps and cloud deployment scenarios using Azure Repos, Azure Pipelines, and other Azure DevOps tools. Key Features: Improve your application development life cycle with Azure DevOps in a step-by-step manner. Apply continuous integration and continuous deployment to reduce application downtime. Work with real-world CI/CD scenarios curated by a team of renowned Microsoft MVPs and MCTs. Book Description: Developing applications for the cloud involves changing development methodologies and procedures. Continuous integration and continuous deployment (CI/CD) processes are a must today, but are often difficult to implement and adopt. Azure DevOps is a Microsoft Azure cloud service that enhances your application development life cycle and enables DevOps capabilities. Starting

with a comprehensive product overview, this book helps you to understand Azure DevOps and apply DevOps techniques to your development projects. You'll find out how to adopt DevOps techniques for your development processes by using built-in Azure DevOps tools. Throughout the course of this book, you'll also discover how to manage a project with the help of project management techniques such as Agile and Scrum, and then progress toward development aspects such as source code management, build pipelines, code testing and artifacts, release pipelines, and GitHub integration. As you learn how to implement DevOps practices, this book will also provide you with real-world examples and scenarios of DevOps adoption. By the end of this DevOps book, you will have learned how to adopt and implement Azure DevOps features in your real-world development processes. What you will learn: Get to grips with Azure DevOps. Find out about project management with Azure Boards. Understand source code management with Azure Repos. Build and release pipelines. Run quality tests in build pipelines. Use artifacts and integrate Azure DevOps in the GitHub flow. Discover real-world CI/CD scenarios with Azure DevOps. Who this book is for: This book is for developers, solutions architects, and DevOps engineers interested in getting started with cloud DevOps practices on Azure. Prior understanding of Azure architecture and services is necessary. Some knowledge of DevOps principles and techniques will be useful.

Learn Docker - Fundamentals of Docker

19.x - Gabriel N. Schenker 2020-03-13

Explore the core functionality of containerizing your applications and making them production-ready. Key Features: Grasp basic to advanced Docker concepts with this comprehensive guide. Get acquainted with Docker containers, Docker images, orchestrators, cloud integration, and networking. Learn to simplify dependencies and deploy and test containers in production. Book Description: Containers enable you to package an application with all the components it needs, such as libraries and other dependencies, and ship it as one package. Docker containers have revolutionized the software supply chain in both small and large enterprises. Starting with an introduction to Docker fundamentals and setting up an

environment to work with it, you'll delve into concepts such as Docker containers, Docker images, and Docker Compose. As you progress, the book will help you explore deployment, orchestration, networking, and security. Finally, you'll get to grips with Docker functionalities on public clouds such as Amazon Web Services (AWS), Azure, and Google Cloud Platform (GCP), and learn about Docker Enterprise Edition features. Additionally, you'll also discover the benefits of increased security with the use of containers. By the end of this Docker book, you'll be able to build, ship, and run a containerized, highly distributed application on Docker Swarm or Kubernetes, running on-premises or in the cloud. What you will learn

Containerize your traditional or microservice-based applications
Develop, modify, debug, and test an application running inside a container
Share or ship your application as an immutable container image
Build a Docker Swarm and a Kubernetes cluster in the cloud
Run a highly distributed application using Docker Swarm or Kubernetes
Update or rollback a distributed application with zero downtime
Secure your applications with encapsulation, networks, and secrets
Troubleshoot a containerized, highly distributed application in the cloud

Who this book is for
This book is for Linux professionals, system administrators, operations engineers, DevOps engineers, and developers or stakeholders who are interested in getting started with Docker from scratch. No prior experience with Docker containers is required. Users with a Linux system would be able to take full advantage of this book.

Emerging Trends in the Evolution of Service-Oriented and Enterprise Architectures - Eman El-Sheikh 2016-09-23

This book presents emerging trends in the evolution of service-oriented and enterprise architectures. New architectures and methods of both business and IT are integrating services to support mobility systems, Internet of Things, Ubiquitous Computing, collaborative and adaptive business processes, Big Data, and Cloud ecosystems. They inspire current and future digital strategies and create new opportunities for the digital transformation of next digital products and services. Services Oriented Architectures (SOA) and Enterprise

Architectures (EA) have emerged as a useful framework for developing interoperable, large-scale systems, typically implementing various standards, like Web Services, REST, and Microservices. Managing the adaptation and evolution of such systems presents a great challenge. Service-Oriented Architecture enables flexibility through loose coupling, both between the services themselves and between the IT organizations that manage them. Enterprises evolve continuously by transforming and extending their services, processes and information systems. Enterprise Architectures provide a holistic blueprint to help define the structure and operation of an organization with the goal of determining how an organization can most effectively achieve its objectives. The book proposes several approaches to address the challenges of the service-oriented evolution of digital enterprise and software architectures.

Continuous Delivery with Docker and Jenkins - Rafal Leszko 2017-08-24

Unleash the combination of Docker and Jenkins in order to enhance the DevOps workflow
About This Book
Build reliable and secure applications using Docker containers. Create a complete Continuous Delivery pipeline using Docker, Jenkins, and Ansible. Deliver your applications directly on the Docker Swarm cluster. Create more complex solutions using multi-containers and database migrations.
Who This Book Is For
This book is indented to provide a full overview of deep learning. From the beginner in deep learning and artificial intelligence to the data scientist who wants to become familiar with Theano and its supporting libraries, or have an extended understanding of deep neural nets. Some basic skills in Python programming and computer science will help, as well as skills in elementary algebra and calculus.
What You Will Learn
Get to grips with docker fundamentals and how to dockerize an application for the Continuous Delivery process
Configure Jenkins and scale it using Docker-based agents
Understand the principles and the technical aspects of a successful Continuous Delivery pipeline
Create a complete Continuous Delivery process using modern tools: Docker, Jenkins, and Ansible
Write acceptance tests using Cucumber and run them in the Docker ecosystem using Jenkins
Create multi-container

applications using Docker Compose Managing database changes inside the Continuous Delivery process and understand effective frameworks such as Cucumber and Flyweight Build clustering applications with Jenkins using Docker Swarm Publish a built Docker image to a Docker Registry and deploy cycles of Jenkins pipelines using community best practices In Detail The combination of Docker and Jenkins improves your Continuous Delivery pipeline using fewer resources. It also helps you scale up your builds, automate tasks and speed up Jenkins performance with the benefits of Docker containerization. This book will explain the advantages of combining Jenkins and Docker to improve the continuous integration and delivery process of app development. It will start with setting up a Docker server and configuring Jenkins on it. It will then provide steps to build applications on Docker files and integrate them with Jenkins using continuous delivery processes such as continuous integration, automated acceptance testing, and configuration management. Moving on you will learn how to ensure quick application deployment with Docker containers along with scaling Jenkins using Docker Swarm. Next, you will get to know how to deploy applications using Docker images and testing them with Jenkins. By the end of the book, you will be enhancing the DevOps workflow by integrating the functionalities of Docker and Jenkins. Style and approach The book is aimed at DevOps Engineers, developers and IT Operations who want to enhance the DevOps culture using Docker and Jenkins.

Microsoft System Center Data Protection for the Hybrid Cloud - Shreesh Dubey

2015-06-06

Part of a series of specialized guides on System Center, this book helps you optimize your System Center Data Protection Manager environment. It focuses on best practices, design concepts, how-to procedures, and in-depth technical troubleshooting.

Introduction to DevOps with Kubernetes - Onur Yilmaz 2019-05-22

Become familiar with Kubernetes and explore techniques to manage your containerized workloads and services Key Features Learn everything from creating a cluster to monitoring applications in Kubernetes Understand and

develop DevOps primitives using Kubernetes Use Kubernetes to solve challenging real-life DevOps problems Book Description Kubernetes and DevOps are the two pillars that can keep your business at the top by ensuring high performance of your IT infrastructure.

Introduction to DevOps with Kubernetes will help you develop the skills you need to improve your DevOps with the power of Kubernetes. The book begins with an overview of Kubernetes primitives and DevOps concepts. You'll understand how Kubernetes can assist you with overcoming a wide range of real-world operation challenges. You will get to grips with creating and upgrading a cluster, and then learn how to deploy, update, and scale an application on Kubernetes. As you advance through the chapters, you'll be able to monitor an application by setting up a pod failure alert on Prometheus. The book will also guide you in configuring Alertmanager to send alerts to the Slack channel and trace down a problem on the application using kubectl commands. By the end of this book, you'll be able to manage the lifecycle of simple to complex applications on Kubernetes with confidence. What you will learn Create and manage Kubernetes clusters in on-premise systems and cloud Exercise various DevOps practices using Kubernetes Explore configuration, secret, and storage management, and exercise these on Kubernetes Perform different update techniques and apply them on Kubernetes Use the built-in scaling feature in Kubernetes to scale your applications up and down Use various troubleshooting techniques and have a monitoring system installed on Kubernetes Who this book is for If you are a developer who wants to learn how to apply DevOps patterns using Kubernetes, then this book is for you. Familiarity with Kubernetes will be useful, but not essential.

Azure DevOps Server 2019 Cookbook - Tarun Arora 2019-05-03

Over 70 recipes to effectively apply DevOps best practices and implement Agile, Git, CI-CD & Test automation using Azure DevOps Server (TFS) 2019 Key Features Learn improving code quality using pull requests, branch policies, githooks and git branching design Accelerate the deployment of high quality software by automating build and releases using CI-CD

Pipelines. Learn tried and tested techniques to automate database deployments, App Service & Function Deployments in Azure. Book Description Azure DevOps Server, previously known as Team Foundation Server (TFS), is a comprehensive on-premise DevOps toolset with a rich ecosystem of open source plugins. This book is your one stop guide to learn how to effectively use all of these Azure DevOps services to go from zero to DevOps. You will start by building high-quality scalable software targeting .NET, .NET core or Node.js applications. You will learn techniques that will help you to set up end-to-end traceability of your code changes from design through to release. Whether you are deploying software on-premise or in the cloud in App Service, Functions, or Azure VMs, this book will help you learn release management techniques to reduce release failures. Next, you will be able to secure application configuration by using Azure KeyVault. You will also learn how to create and release extensions to the Azure DevOps marketplace and reach million developer ecosystem for feedback. The working extension samples will allow you to iterate changes in your extensions easily and release updates to the marketplace quickly. By the end of this book, techniques provided in the book will help you break down the invisible silos between your software development teams. This will transform you from being a good software development team to an elite modern cross functional software development team. What you will learn Set up a team project for an Agile delivery team, importing requirements from ExcelPlan, track, and monitor progress using self updating boards, Sprint and Kanban boards Unlock the features of Git by using branch policies, Git pull requests, forks, and Git hooks Build and release .NET core, SQL and Node.js applications using Azure Pipeline Automate testing by integrating Microsoft and open source testing frameworks Extend Azure DevOps Server to a million developer ecosystem Who this book is for This book is for anyone looking to succeed with DevOps. The techniques in this book apply to all roles of the software development lifecycle

including developers, testers, architects, configuration analysts, site reliability engineers and release managers. If you are a new user you'll learn how to get started; if you are an experienced user you'll learn how to launch your project into a modern and mature DevOps enabled software development team.

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 Respond to 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 Design Patterns - Erich Gamma 1995 Software -- Software Engineering.