



SCI SERIES IN SOFTWARE ENGINEERING

DevOps

A Software Architect's Perspective

Len Bass

Ingo Weber

Liming Zhu

Devops A Software Architects Perspective Sei Series In Software Engineering

Cecil 'Gary' Rupp, Helen Beal



DevOps A Software Architects Perspective Sei Series In Software Engineering:

DevOps Len Bass,Ingo Weber,Liming Zhu,2015-05-08 The First Complete Guide to DevOps for Software Architects

DevOps promises to accelerate the release of new software features and improve monitoring of systems in production but its crucial implications for software architects and architecture are often ignored In *DevOps A Software Architect s Perspective* three leading architects address these issues head on The authors review decisions software architects must make in order to achieve DevOps goals and clarify how other DevOps participants are likely to impact the architect s work They also provide the organizational technical and operational context needed to deploy DevOps more efficiently and review DevOps impact on each development phase The authors address cross cutting concerns that link multiple functions offering practical insights into compliance performance reliability repeatability and security This guide demonstrates the authors ideas in action with three real world case studies datacenter replication for business continuity management of a continuous deployment pipeline and migration to a microservice architecture Comprehensive coverage includes Why DevOps can require major changes in both system architecture and IT roles How virtualization and the cloud can enable DevOps practices Integrating operations and its service lifecycle into DevOps Designing new systems to work well with DevOps practices Integrating DevOps with agile methods and TDD Handling failure detection upgrade planning and other key issues Managing consistency issues arising from DevOps independent deployment models Integrating security controls roles and audits into DevOps Preparing a business plan for DevOps adoption rollout and measurement

Devops Len Bass,Ingo Weber,Liming Zhu,2015-05-01

DevOps promises to accelerate the release of new software features and improve monitoring of systems in production but its crucial implications for software architects and architecture are often ignored In *DevOps A Software Architect s Perspective* three leading architects address these issues head on The authors review decisions software architects must make in order to achieve DevOps goals and clarify how other DevOps participants are likely to impact the architect s work They also provide the organizational technical and operational context needed to deploy DevOps more efficiently and review DevOps impact on each development phase The authors also address cross cutting concerns that link multiple functions offering practical insights into compliance performance reliability repeatability and security This guide demonstrates the authors ideas in action with three real world case studies datacenter maintenance for business continuity management of a continuous deployment pipeline and migration to a microservice architecture Comprehensive coverage includes Why DevOps can require major changes in both system architecture and IT roles How virtualization and the cloud can enable DevOps practices Integrating operations and its service lifecycle into DevOps Designing new systems to work well with DevOps practices Overcoming cultural and communication differences between Dev and Ops Integrating DevOps with agile methods and TDD Handling failure detection upgrade planning and other key issues Managing consistency issues arising from DevOps independent deployment models Integrating security controls roles and audits into DevOps Preparing a business plan for

DevOps adoption rollout and measurement *Engineering and Management of Data Centers* Jorge Marx Gómez, Manuel Mora, Mahesh S. Raisinghani, Wolfgang Nebel, Rory V. O'Connor, 2017-11-10 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

Trends and Applications in Software Engineering Jezreel Mejia, Mirna Muñoz, Álvaro Rocha, Jose A. Calvo-Manzano, 2019-10-16 This book contains a selection of papers from The 2019 International Conference on Software Process Improvement CIMPS 19 held between the 23th and 25th of October in Le n Guanajuato M xico The CIMPS 19 is a global forum for researchers and practitioners that present and discuss the most recent innovations trends results experiences and concerns in the several perspectives of Software Engineering with clear relationship but not limited to software processes Security in Information and Communication Technology and Data Analysis Field The main topics covered are Organizational Models Standards and Methodologies Software Process Improvement Knowledge Management Software Systems Applications and Tools Information and Communication Technologies and Processes in non software domains Mining automotive aerospace business health care manufacturing etc with a demonstrated relationship to Software Engineering Challenges *12 More Essential Skills for Software Architects* Dave Hendricksen, 2014-08-22 Master The Crucial Technical Skills Every Software Architect Needs To succeed as a software architect you must master both technical skills and soft skills Dave Hendricksen illuminated the soft skills in his highly regarded 12 Essential Skills for Software Architects Now in 12 More Essential Skills for Software Architects he turns to the technical side Drawing on his decades of experience Hendricksen organizes technical skills into three areas PROJECT SKILLS driving projects from ideation through delivery TECHNOLOGY SKILLS building buying and or leveraging the right technologies VISIONARY SKILLS realizing an

architectural vision that improves long term competitiveness He helps you develop and sharpen these key technical skills from conceptualizing solutions to developing platforms and governance and from selecting technology innovations to infusing architectures with an entrepreneurial spirit This guide reveals the technical skills you need and provides a coherent framework and practical methodology for mastering them Taken together Hendricksen s two books offer the most complete practical pathway to excellence in software architecture They ll guide you through every step of your architecture career from getting the right position to thriving once you have it Essential Architect Skills Visionary Skills Entrepreneurial Execution Technology Innovation Strategic Roadmapping Technology Skills Governance Platform Development Know how Architectural Perspective Project Skills Estimation Partnership Discovery Management Conceptualization Dave Hendricksen is a big data architect for Thomson Reuters where he works closely with the firm s new product development teams to create innovative legal products for large scale online platforms such as Westlaw com Hendricksen presented Designing and Building Large Scale Systems in an Agile World at Carnegie Mellon University s influential Software Engineering Institute

.NET DevOps for Azure Jeffrey Palermo,2019-10-21 Use this book as your one stop shop for architecting a world class DevOps environment with Microsoft technologies NET DevOps for Azure is a synthesis of practices tools and process that together can equip a software organization to move fast and deliver the highest quality software The book begins by discussing the most common challenges faced by developers in DevOps today and offers options and proven solutions on how to implement DevOps for your team Daily millions of developers use NET to build and operate mission critical software systems for organizations around the world While the marketplace has scores of information about the technology it is completely up to you to put together all the blocks in the right way for your environment This book provides you with a model to build on The relevant principles are covered first along with how to implement that part of the environment And while variances in tools language or requirements will change the needed implementation the DevOps model is the architecture for the working environment for your team You can modify parts of the model to customize it to your enterprise but the architecture will enable all of your teams and applications to accelerate in performance What You Will Learn Get your NET applications into a DevOps environment in Azure Analyze and address the part of your DevOps process that causes delays or bottlenecks Track code using Azure Repos and conduct acceptance tests Apply the rules for segmenting applications into Git repositories Understand the different types of builds and when to use each Know how to think about code validation in your DevOps environment Provision and configure environments deploy release candidates across the environments in Azure Monitor and support software that has been deployed to a production environment Who This Book Is For NET Developers who are using or want to use DevOps in Azure but don t know where to begin Software Engineering Aspects of Continuous Development and New Paradigms of Software Production and Deployment Jean-Michel Bruel,Manuel Mazzara,Bertrand Meyer,2020-01-18 This book constitutes revised selected papers of the Second International Workshop on Software

Engineering Aspects of Continuous Development and New Paradigms of Software Production and Deployment DEVOPS 2019 held at the Chateau de Villebrumier France in May 2019 The 15 papers presented in this volume were carefully reviewed and selected from 19 submissions They cover a wide range of problems arising from DevOps and related approaches current tools rapid development deployment processes modeling frameworks anomaly detection in software releases DevDataOps microservices and related topics Software Engineering Aspects of Continuous Development and New Paradigms of Software Production and Deployment Jean-Michel Bruel,Manuel Mazzara,Bertrand Meyer,2019-01-18 This book constitutes revised selected papers from the First International Workshop on Software Engineering Aspects of Continuous Development and New Paradigms of Software Production and Deployment DEVOPS 2018 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 DevOps for Developers Michael Hüttermann,2012-10-24 DevOps for Developers delivers a practical thorough introduction to approaches processes and tools to foster collaboration between software development and operations Efforts of Agile software development often end at the transition phase from development to operations This book covers the delivery of software this means the last mile with lean practices for shipping the software to production and making it available to the end users together with the integration of operations with earlier project phases elaboration construction transition DevOps for Developers describes how to streamline the software delivery process and improve the cycle time that is the time from inception to delivery It will enable you to deliver software faster in better quality and more aligned with individual requirements and basic conditions And above all work that is aligned with the DevOps approach makes even more fun Provides patterns and toolchains to integrate software development and operations Delivers an one stop shop for kick starting with DevOps Provides guidance how to streamline the software delivery process DevOps for Digital Leaders Aruna Ravichandran,Kieran Taylor,Peter Waterhouse,2016-11-09 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

DevOps - A Business Perspective Oleg Skrynnik, 2018-12-14 This book explains the management aspects of DevOps for those who are professionally engaged in information and technology management 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

Embracing DevOps Release Management Joel Kruger, 2024-04-12 Unlock the power of DevOps release management to elevate your software development with early quality checks testing automation and QA integration reshaping your software delivery life cycle for excellence Key Features Understand the SDLC and the most popular release management models Learn what makes DevOps unique and how CI CD pipelines enforce good DevOps release management Drive a culture driven release management initiative in your organization that breaks down silos Purchase of the print or Kindle book includes a free PDF eBook Book Description At the core of software development lies the imperative of swiftly and reliably releasing new features

and updates emphasizing the vital role of release management in the DevOps methodology Discover how software development teams can elevate their processes by incorporating quality checks and shifting left moving testing automation and QA procedures much earlier into the SDLC However release management is still tasked with application monitoring overseeing infrastructure components and managing change orders and schedules This book offers insights into the essence of DevOps Release Management illuminating its nuances and providing basic strategies for its implementation You ll explore how CI CD pipelines enforce good DevOps release management and master techniques to optimize them You ll also learn how to foster a culture of cross functional product development that minimizes waste and maximizes value to the customer By the end of the book you ll have gained a comprehensive understanding of DevOps release management its benefits and practical implementation strategies Equipped with this knowledge you ll be able to assess your own development processes and identify areas for improvement ultimately leading to increased efficiency collaboration and value creation What you will learn Discover the significance and anatomy of the SDLC Understand the history of release management and how various models work Grasp DevOps release management and basic strategies to implement it Construct optimized CI CD pipelines capable of early issue detection Implement the shift left approach to enhance value delivery to customers at record speed Foster a culture of cross functional collaboration in your team Make DevOps release management pragmatic and accessible Overcome common pitfalls in DevOps release management Who this book is for This book is a comprehensive introduction for those who are new to DevOps release management but it s also valuable for DevOps engineers and release managers looking to enhance their skills and knowledge If you re looking to adopt key practices to shift left this book will enable you to build high quality products in record time

DevOps Foundation Courseware - English Oleg Skrynnik,2019-01-15 Besides the DevOps Foundation Courseware English ISBN 9789401803595 publication you are advised to obtain the publication DevOps A Business Perspective ISBN 978 940 180 372 4 DevOps enables organizations to decrease time to market for new releases software or services by encouraging a collaborative approach from development and operations teams The adoption of DevOps creates an environment where productivity is increased through the automation of processes around infrastructure and workflows DevOps as a phenomenon associated with new automation tools programming techniques or technologies It differs from other books by the structural nature of the narrative perhaps excessively structured approach and by the attempt to cover fully the phenomenon of DevOps at a basic fundamental level

Modern DevOps Practices Gaurav Agarwal,2024-01-12 Enhance DevOps workflows by integrating the functionalities of Git Docker Kubernetes Argo CD Ansible Terraform Istio and more with the help of practical examples and expert tips Key Features Explore containers as a service CaaS and infrastructure automation in the public cloud Secure and ship software continuously to production with DevOps GitOps SecOps and automation Operate distributed and scalable microservices apps in the cloud with a modern service mesh Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionDevOps and the cloud have changed how we

look at software development and operations like never before leading to the rapid growth of various DevOps tools techniques and practices This updated edition helps you pick up the right tools by providing you with everything you need to get started with your DevOps journey The book begins by introducing you to modern cloud native architecture and then teaches you about the architectural concepts needed to implement the modern way of application development The next set of chapters helps you get familiarized with Git Docker Kubernetes Ansible Terraform Packer and other similar tools to enable you to build a base As you advance you ll explore the core elements of cloud integration AWS ECS GKE and other CaaS services The chapters also discuss GitOps continuous integration and continuous delivery GitHub actions Jenkins and Argo CD to help you understand the essence of modern app delivery Later you ll operate your container app in production using a service mesh and apply AI in DevOps Throughout the book you ll discover best practices for automating and managing your development lifecycle infrastructure containers and more By the end of this DevOps book you ll be well equipped to develop and operate applications using modern tools and techniques What you will learn Explore modern DevOps practices with Git and GitOps Master container fundamentals with Docker and Kubernetes Become well versed in AWS ECS Google Cloud Run and Knative Discover how to efficiently build and manage secure Docker images Understand continuous integration with Jenkins on Kubernetes and GitHub Actions Get to grips with using Argo CD for continuous deployment and delivery Manage immutable infrastructure on the cloud with Packer Terraform and Ansible Operate container applications in production using Istio and learn about AI in DevOps Who this book is for If you are a software engineer system administrator or operations engineer looking to step into the world of DevOps within public cloud platforms this book is for you Existing DevOps engineers will also find this book helpful as it covers best practices tips and tricks for implementing DevOps with a cloud native mindset Although no containerization experience is necessary a basic understanding of the software development life cycle and delivery will help you get the most out of this book

Driving DevOps with Value Stream Management Cecil 'Gary' Rupp,Helen Beal,2021-08-31 A practical guide to implementing Value Stream Management to guide your strategic investments in DevOps capabilities and deliver customer centric value quickly and economically Key FeaturesAddress DevOps implementation issues including culture toolchain costs improving work and information flows and product team alignmentImplement proven VSM methodology to improve IT value stream flowsLeverage VSM platforms to view analyze and improve end to end value deliveryBook Description Value Stream Management VSM opens the door to maximizing your DevOps pipeline investments by improving flows and eliminating waste VSM and DevOps together deliver value stream improvements across enterprises for a competitive advantage in the digital world Driving DevOps with Value Stream Management provides a comprehensive review and analysis of industry proven VSM methods and tools to integrate streamline and orchestrate activities within a DevOps oriented value stream You ll start with an introduction to the concepts of delivering value and understand how VSM methods and tools support improved value delivery from a Lean production

perspective The book covers the complexities of implementing modern CI CD and DevOps pipelines and then guides you through an eight step VSM methodology with the help of a use case showing an Agile team s efforts to install a CI CD pipeline Free from marketing hype or vendor bias this book presents the current VSM tool vendors and customer use cases that showcase their products strengths As you advance through the book you ll learn four approaches to implementing a DevOps pipeline and get guidance on choosing the best fit By the end of this VSM book you ll be ready to develop and execute a plan to streamline your software delivery pipelines and improve your organization s value stream delivery What you will learn Integrate Agile systems thinking and lean development to deliver customer centric value Find out how to choose the most appropriate value stream for your initial and follow on VSM projects Establish better flows with integrated automated and orchestrated DevOps and CI CD pipelines Apply a proven eight step VSM methodology to drive lean IT value stream improvements Discover the key strengths of modern VSM tools and their customer use case scenarios Understand how VSM drives DevOps pipeline improvements and value delivery transformations across enterprises Who this book is for This book will help corporate executives managers IT team members and other stakeholders involved in digital business transformations to improve the flow of customer value through their IT based value streams It will provide you with the practical guidance you need while adopting Lean Agile Value Stream Management and DevOps capabilities on an enterprise scale to enable business agility A basic understanding of how CI CD and DevOps pipelines improve software delivery capabilities via integrated and automated toolchains will help you to make the most of the book

97 Things Every Software Architect Should Know Richard Monson-Haefel, 2009-02-05 In this truly unique technical book today s leading software architects present valuable principles on key development issues that go way beyond technology More than four dozen architects including Neal Ford Michael Nygard and Bill de hOra offer advice for communicating with stakeholders eliminating complexity empowering developers and many more practical lessons they ve learned from years of experience Among the 97 principles in this book you ll find useful advice such as Don t Put Your Resume Ahead of the Requirements Nitin Borwankar Chances Are Your Biggest Problem Isn t Technical Mark Ramm Communication Is King Clarity and Leadership Its Humble Servants Mark Richards Simplicity Before Generality Use Before Reuse Kevlin Henney For the End User the Interface Is the System Vinayak Hegde It s Never Too Early to Think About Performance Rebecca Parsons To be successful as a software architect you need to master both business and technology This book tells you what top software architects think is important and how they approach a project If you want to enhance your career 97 Things Every Software Architect Should Know is essential reading

AWS Certified DevOps Engineer - Professional: : Architecting Cloud Solutions for Software Engineers Anand Vemula, 2023-11-15 The book AWS Certified DevOps Engineer Professional Architecting Cloud Solutions for Software Engineers is a comprehensive guide that caters to a diverse range of professionals in the field of software engineering and cloud architecture This subchapter Target Audience for the Book aims to provide an overview of

the individuals who would greatly benefit from the content within First and foremost this book is ideal for Software Engineers who want to enhance their skills and knowledge in implementing and managing DevOps practices within the AWS cloud environment It covers a wide range of topics including continuous integration and delivery infrastructure as code and various AWS services and tools that are essential for a successful DevOps implementation The book is also tailored for AWS Certified Engineers who have already acquired the foundational AWS certification and are looking to further specialize in the field of DevOps It provides valuable insights and practical guidance to help them prepare for the AWS Certified DevOps Engineer Professional exam covering advanced topics specific to DevOps practices and cloud architecture Software Architects Cloud Architects and Platform Architects will find this book invaluable in understanding how to design and architect cloud solutions that are optimized for scalability security and performance It explores various architectural patterns and best practices enabling these professionals to create robust and efficient cloud infrastructure for their organizations For Compliance Professionals the book offers a comprehensive understanding of how to implement and maintain compliance standards and best practices within an AWS cloud environment It covers various security and compliance frameworks such as the AWS Well Architected Framework and the shared responsibility model providing guidance on how to ensure regulatory compliance Lastly the book caters to DevOps Architects who are responsible for designing and implementing CI CD pipelines and managing infrastructure as code It delves into advanced techniques and strategies for automating software delivery leveraging AWS services like AWS CodePipeline AWS CodeBuild and AWS CloudFormation In summary AWS Certified DevOps Engineer Professional Architecting Cloud Solutions for Software Engineers is a must have resource for professionals in the niches of AWS Certified DevOps Engineer Professional CI CD Pipeline Management and Infrastructure as Code IaC It equips them with the knowledge and skills needed to excel in their roles and provides a comprehensive guide to successfully architecting and implementing cloud solutions within the AWS ecosystem

Solutions Architect's Handbook
Saurabh Shrivastava, Neelanjali Srivastav, 2020-03-21

From fundamentals and design patterns to the different strategies for creating secure and reliable architectures in AWS cloud learn everything you need to become a successful solutions architect

Key Features Create solutions and transform business requirements into technical architecture with this practical guide Understand various challenges that you might come across while refactoring or modernizing legacy applications Delve into security automation DevOps and validation of solution architecture

Book Description Becoming a solutions architect gives you the flexibility to work with cutting edge technologies and define product strategies This handbook takes you through the essential concepts design principles and patterns architectural considerations and all the latest technology that you need to know to become a successful solutions architect This book starts with a quick introduction to the fundamentals of solution architecture design principles and attributes that will assist you in understanding how solution architecture benefits software projects across enterprises You ll learn what a cloud migration and application modernization framework looks like and will

use microservices event driven cache based and serverless patterns to design robust architectures You ll then explore the main pillars of architecture design including performance scalability cost optimization security operational excellence and DevOps Additionally you ll also learn advanced concepts relating to big data machine learning and the Internet of Things IoT Finally you ll get to grips with the documentation of architecture design and the soft skills that are necessary to become a better solutions architect By the end of this book you ll have learned techniques to create an efficient architecture design that meets your business requirements What you will learn Explore the various roles of a solutions architect and their involvement in the enterprise landscape Approach big data processing machine learning and IoT from an architect s perspective and understand how they fit into modern architecture Discover different solution architecture patterns such as event driven and microservice patterns Find ways to keep yourself updated with new technologies and enhance your skills Modernize legacy applications with the help of cloud integration Get to grips with choosing an appropriate strategy to reduce cost Who this book is for This book is for software developers system engineers DevOps engineers architects and team leaders working in the information technology industry who aspire to become solutions architect professionals A good understanding of the software development process and general programming experience with any language will be useful

Solutions Architect's Handbook Saurabh Shrivastava, Neelanjali Srivastav, 2022-01-17 Third edition out now with coverage on Generative AI clean architecture edge computing and more Key Features Turn business needs into end to end technical architectures with this practical guide Assess and overcome various challenges while updating or modernizing legacy applications Future proof your architecture with IoT machine learning and quantum computing Book Description Becoming a solutions architect requires a hands on approach and this edition of the Solutions Architect s Handbook brings exactly that This handbook will teach you how to create robust scalable and fault tolerant solutions and next generation architecture designs in a cloud environment It will also help you build effective product strategies for your business and implement them from start to finish This new edition features additional chapters on disruptive technologies such as Internet of Things IoT quantum computing data engineering and machine learning It also includes updated discussions on cloud native architecture blockchain data storage and mainframe modernization with public cloud The Solutions Architect s Handbook provides an understanding of solution architecture and how it fits into an agile enterprise environment It will take you through the journey of solution architecture design by providing detailed knowledge of design pillars advanced design patterns anti patterns and the cloud native aspects of modern software design By the end of this handbook you ll have learned the techniques needed to create efficient architecture designs that meet your business requirements What you will learn Explore the various roles of a solutions architect in the enterprise landscape Implement key design principles and patterns to build high performance cost effective solutions Choose the best strategies to secure your architectures and increase their availability Modernize legacy applications with the help of cloud integration Understand how

big data processing machine learning and IoT fit into modern architecture Integrate a DevOps mindset to promote collaboration increase operational efficiency and streamline production Who this book is for This book is for software developers system engineers DevOps engineers architects and team leaders who already work in the IT industry and aspire to become solutions architect professionals Existing solutions architects who want to expand their skillset or get a better understanding of new technologies will also learn valuable new skills To get started you ll need a good understanding of the real world software development process and general programming experience in any language *DevOps Culture and Practice with OpenShift* Tim Beattie, Mike Hepburn, Noel O'Connor, Donal Spring, 2021-08-23 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

This book delves into Devops A Software Architects Perspective Sei Series In Software Engineering. Devops A Software Architects Perspective Sei Series In Software Engineering is a vital topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Devops A Software Architects Perspective Sei Series In Software Engineering, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Devops A Software Architects Perspective Sei Series In Software Engineering
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 - Chapter 5: Conclusion
 2. In chapter 1, this book will provide an overview of Devops A Software Architects Perspective Sei Series In Software Engineering. This chapter will explore what Devops A Software Architects Perspective Sei Series In Software Engineering is, why Devops A Software Architects Perspective Sei Series In Software Engineering is vital, and how to effectively learn about Devops A Software Architects Perspective Sei Series In Software Engineering.
 3. In chapter 2, the author will delve into the foundational concepts of Devops A Software Architects Perspective Sei Series In Software Engineering. This chapter will elucidate the essential principles that must be understood to grasp Devops A Software Architects Perspective Sei Series In Software Engineering in its entirety.
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 5. In chapter 4, the author will scrutinize the relevance of Devops A Software Architects Perspective Sei Series In Software Engineering in specific contexts. This chapter will explore how Devops A Software Architects Perspective Sei Series In Software Engineering is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, this book will draw a conclusion about Devops A Software Architects Perspective Sei Series In Software Engineering. This chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Devops A Software Architects Perspective Sei Series In Software Engineering.

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