DevOps with Kubernetes accelerating software delivery with container orchestrators Copy

DevOps with Kubernetes 2017-10-16 learn to implement devops using docker kubernetes about this book learning devops container and kubernetes within one book leverage kubernetes as a platform to deploy scale and run containers efficiently a practical guide towards container management and orchestration who this book is for this book is targeted for anyone who wants to learn containerization and clustering in a practical way using kubernetes no prerequisite skills required however essential devops skill and public private cloud knowledge will accelerate the reading speed if you re advanced readers you can also get a deeper understanding of all the tools and technique described in the book what you will learn fundamental and advanced devops skills and tools get a comprehensive understanding for container learn how to move your application to container world learn how to manipulate your application by kubernetes learn how to work with kubernetes in popular public cloud improve time to market with kubernetes and continuous delivery learn how to monitor log and troubleshoot your application with kubernetes in detail containerization is said to be the best way to implement devops google developed kubernetes which orchestrates containers efficiently and is considered the frontrunner in container orchestration kubernetes is an orchestrator that creates and manages your containers on clusters of servers this book will guide you from simply deploying a container to administrate a kubernetes cluster and then you will learn how to do monitoring logging and continuous deployment in devops the initial stages of the book will introduce
the fundamental devops and the concept of containers it will move on to how to containerize applications and deploy them into the book will then introduce networks in kubernetes we then move on to advanced devops skills such as monitoring logging and continuous deployment in kubernetes it will proceed to introduce permission control for kubernetes resources via attribute based access control and role based access control the final stage of the book will cover deploying and managing your container clusters on the popular public cloud amazon services and google cloud platform at the end of the book other orchestration frameworks such as docker swarm mode amazon ecs and apache mesos will be discussed style and approach readers will be taken through fundamental devops skills and kubernetes concept and administration with detailed examples it introduces comprehensive devops topics including microservices automation tools containers monitoring logging continuous delivery and popular public cloud environments at each step readers will learn how to leverage kubernetes in their everyday lives and transform their original delivery pipeline for fast and efficient delivery

Accelerate 2018-03-27 winner of the shingo publication award accelerate your organization to win in the marketplace how can we apply technology to drive business value for years we ve been told that the performance of software delivery teams doesn t matter that it can t provide a competitive advantage to our companies through four years of groundbreaking research to include data collected from the state of devops reports conducted with puppet dr nicole forsgren jez humble and gene kim set out to find a way to measure software delivery performance and what drives it using rigorous statistical methods this book presents both the findings and the science behind that research making the information accessible for readers to apply in their own organizations readers will discover how to measure the performance of their teams and what capabilities they should
invest in to drive higher performance this book is ideal for
management at every level

**DevOps with Kubernetes 2019-01-31** leverage the power of
kubernetes to build an efficient software delivery pipeline key
features learn about devops containers and kubernetes all within
one handy booka practical guide to container management and
orchestration learn how to monitor log and troubleshoot your
kubernetes applications book description
kubernetes has been widely adopted across public clouds and on premise data centers
as we re living in an era of microservices knowing how to use and
manage kubernetes is an essential skill for everyone in the it
industry this book is a guide to everything you need to know
about kubernetes from simply deploying a container to
administrating kubernetes clusters wisely you ll learn about
devops fundamentals as well as deploying a monolithic
application as microservices and using kubernetes to orchestrate
them you will then gain an insight into the kubernetes network
extensions authentication and authorization with the devops
spirit in mind you ll learn how to allocate resources to your
application and prepare to scale them efficiently knowing the
status and activity of the application and clusters is crucial so we
ll learn about monitoring and logging in kubernetes having an
improved ability to observe your services means that you will be
able to build a continuous delivery pipeline with confidence at
the end of the book you ll learn how to run managed kubernetes
services on three top cloud providers google cloud platform
amazon services and microsoft azure what you will learn
fundamental and advanced devops skills and tools get a
comprehensive understanding of containers dockerize an
application administer and manage kubernetes cluster extend
the cluster functionality with custom resources understand
kubernetes network and service mesh implement kubernetes
logging and monitoring manage kubernetes services in amazon
services google cloud platform and microsoft azure who this book
is for this book is for anyone who wants to learn containerization and clustering in a practical way using Kubernetes. No prerequisite skills are required, however, essential DevOps skills and public-private cloud knowledge will accelerate the reading speed. If you're advanced, you can get a deeper understanding of all the tools and technique described in the book.

**Operating Continuously**

2023-05-30

Continuous delivery doesn't stop with deployment. Modern software teams rely on an emerging set of best practices post-deployment to continuously improve their software. With this practical guide, CTOS software architects and senior engineering leaders will learn what these practices are and how to apply them to their existing operations. Author John Kodumal, Co-founder and CTO at LaunchDarkly, provides actionable insights into setting up and maintaining a smooth operational process post-deployment. You'll learn new approaches to releasing software, controlling systems at runtime, and measuring the impact of change. Armed with this knowledge, you can easily anticipate the next planning and building phase, feeding back into the software development lifecycle. This book helps you understand why mature incident management processes are an essential part of the CI/CD story. Use the tools and processes necessary to measure the impact of change to production systems. Learn how to use canary launches and feature flags to release faster with less risk. Set up effective incident management systems to reduce the impact of broken changes. Explore an emerging class of techniques that extend the practice beyond deployment. Use experimentation and impact analysis to continuously improve.

**60 Minute Software**

1995-12-22

60 minute software proven solutions for software developers and MIS professionals. The latest volume in the revolutionary Ernst Young Information Management series provides an in-depth examination of a key issue concerning development cycle time compression in the development of business software and its impact on the ability of
businesses to meet new customer product or market requirements based on a three year study by ernst young s center for business transformation 60 minute software offers a variety of practical solutions that can be implemented quickly and efficiently acceleration strategies that have been used by such companies as ameritech ibm and hewlett packard among others are analyzed in depth the results are of vital importance in light of the increasing demands on is professionals in a technology driven environment 60 minute software examines strategic vs tactical improvement issues myths that slow down the improvement process why some cycle times can t be compressed and shouldn t be management styles for processes with different characteristics projected vs actual effects strategies that have decelerated process times how fast can we really get the limits to cycle time compression implementing a cycle time reduction program by identifying the main problems with cycle time compression offering strategies to address them and reviewing the successes and failures in applying acceleration strategies 60 minute software points to the lessons to be learned from the efforts of leading is organizations and the best practices they have developed

Accelerate DevOps with GitHub 2022-09-09 take your devops and devsecops game to the next level by leveraging the power of the github toolset in practice key features release software faster and with confidence increase your productivity by spending more time on software delivery and less on fixing bugs and administrative tasks deliver high quality software that is more stable scalable and secure book description this practical guide to devops uses github as the devops platform and shows how you can leverage the power of github for collaboration lean management and secure and fast software delivery the chapters provide simple solutions to common problems thereby helping teams that are already on their devops journey to further advance into devops and speed up their software delivery
performance from finding the right metrics to measure your success to learning from other teams success stories without merely copying what they've done this book has it all in one place as you advance you'll find out how you can leverage the power of github to accelerate your value delivery by making work visible with github projects measuring the right metrics with github insights using solid and proven engineering practices with github actions and advanced security and moving to event based and loosely coupled software architecture by the end of this github book you'll have understood what factors influence software delivery performance and how you can measure your capabilities thus realizing where you stand in your journey and how you can move forward what you will learn effectively measure software delivery performance adopt devops and lean management techniques in your teams plan track and visualize your work using github issues and projects use continuous delivery with github actions and packages scale quality through testing in production and chaos engineering shift left security and secure your entire software supply chain use devsecops practices with github advanced security secure your code with code scanning secret scanning and dependabot who this book is for this book is for developers solutions architects devops engineers and sres as well as for engineering or product managers who want to enhance their software delivery performance whether you're new to devops already have experience with github enterprise or come from a platform such as azure devops team foundation server gitlab bitbucket puppet chef or jenkins but struggle to achieve maximum performance you'll find this book beneficial

DevOps for the Modern Enterprise 2018-04-03 many organizations are facing the uphill battle of modernizing their legacy it infrastructure most have evolved over the years by taking lessons from traditional or legacy manufacturing creating a production process that puts the emphasis on the process
instead of the people performing the tasks allowing the organization to treat people like resources to try to achieve high quality outcomes but those practices and ideas are failing modern it where collaboration and creativeness are required to achieve high performing high quality success mirco hering a thought leader in managing it within legacy organizations lays out a roadmap to success for it managers showing them how to create the right ecosystem how to empower people to bring their best to work every day and how to put the right technology in the driver's seat to propel their organization to success but just having the right methods and tools will not magically transform an organization the cultural change that is the hardest is also the most impactful using principles from agile lean and devops as well as first hand examples from the enterprise world hering addresses the different challenges that legacy organizations face as they transform into modern it departments

**Accelerating Digital Transformation** 2022-11-20 this book celebrates the 10 year anniversary of software center a collaboration between 18 european companies and five swedish universities by presenting some of the most impactful and relevant journal or conference papers that researchers in the center have published over the last decade the book is organized around the five themes around which research in software center is organized i.e. continuous delivery continuous architecture metrics customer data and ecosystems driven development and ai engineering the focus of the continuous delivery theme is to help companies to continuously build high quality products with the right degree of automation the continuous architecture theme addresses challenges that arise when balancing the need for architectural quality and more agile ways of working with shorter development cycles the metrics theme studies and provides insight to understand monitor and improve software processes products and organizations the fourth theme customer data and ecosystem driven development helps companies make
sense of the vast amounts of data that are continuously collected from products in the field eventually the theme of AI engineering addresses the challenge that many companies struggle with in terms of deploying machine and deep learning models in industrial contexts with production quality each theme has its own part in the book and each part has an introduction chapter and then a carefully selected reprint of the most important papers from that theme this book mainly aims at researchers and advanced professionals in the areas of software engineering who would like to get an overview about the achievement made in various topics relevant for industrial large scale software development and management and to see how research benefits from a close cooperation between industry and academia

Accelerate 2018 application performance management apm in the digital enterprise enables it professionals to be more successful in managing their company’s applications it explores the fundamentals of application management examines how the latest technological trends impact application management and provides best practices for responding to these changes the recent surge in the use of containers as a way to simplify management and deploy applications has created new challenges and the convergence of containerization cloud mobile virtualization analytics and automation is reshaping the requirements for application management this book serves as a guide for understanding these dramatic changes and how they impact the management of applications showing how to create a management strategy define the underlying processes and standards and how to select the appropriate tools to enable management processes offers a complete framework for implementing effective application management using clear tips and solutions for those responsible for application management draws upon primary research to give technologists a current understanding of the latest technologies and processes needed to more effectively manage large scale applications includes real
world case studies and business justifications that support application management investments

Application Performance Management (APM) in the Digital Enterprise

2017-02-11 dx進むビジネスはITオンラインを基準に変化が加速している
この大きな流れを受けるのがソフトウェア開発である またソフトウェア業界としてはアジャイルやdevopsなどの手法を開発して時代の移り変わりの速度に合わせるようにいかに効率的にサービスを提供できるかを試行錯誤してきた 本書は高速なデリバリーを実現することを目的とした4つの基本的なチームタイプと3つのインタラクションパターンに基づく組織設計とチームインタラクションのための実践的な適応モデルを紹介する これはソフトウェアの組織設計における大きな前進でありチームの相互作用と相互関係を明確に定義した方法を提示することでチーム間の問題を組織の自己運営のための貴重なシグナルに変え結果として得られるソフトウェアアーキテクチャをより明確で持続可能なものにするこれにより組織に適したチームパターンを選択して進化させソフトウェアを健全な状態に保つことでバリューストリームを最適化するのに役立たせることができるだろう 目次 part i デリバリーの手段としてのチームchapter1 組織図の問題 chapter2 コンウェイの法則が重要な理由 chapter3 チームファースト思考 part Ⅱ フローを機能させるチームトポロジー chapter4 静的なチームトポロジーチームのアンチパターン chapter5 4つの基本的なチームタイプ chapter6 チームファーストな境界を決める part Ⅲ イノベーションと高速なデリバリーのためにチームインタラクションを進化させる chapter7 チームインタラクションモード chapter8 組織的センシングでチーム構造を進化させる chapter9 まとめ

次世代デジタル運用モデル

チームトポロジー 価値あるソフトウェアをすばやく届ける適応型組織設計

2021-12-01 build an end to end continuous delivery pipeline on google cloud and secure your software supply chain using gcp tools and services including cloud code cloud workstations cloud build artifact registry and cloud deploy key features gain hands on experience building an end to end software delivery pipeline using google cloud services deploy your applications on gke cloud run and across hybrid and multi cloud environments secure pipelines with artifact scanning dependency vulnerability checks signed provenance and admission control purchase of the print or kindle book includes a free pdf ebook book description continuous delivery a cornerstone of modern software engineering facilitates quick and secure software delivery using a robust toolkit encompassing automated builds testing source code
management artifact storage and deployment whether you integrate tools from different providers or use a set of managed services from a single cloud provider the goal is to streamline setup integration and management this book focuses on continuous delivery on google cloud starting with an introduction to continuous delivery and secure software supply chain concepts this book uses hands on exercises to demonstrate how to continuously test your application with skaffold and cloud code leverage ai assisted code generation with cloud code and cloud workstations and automate your continuous integration with cloud build you’ll see how to store and scan your software artifacts on artifact registry orchestrate deployments with cloud deploy and release your software on gke and cloud run configured to admit only trusted code using an example application you’ll implement tools for creating an end to end delivery pipeline using google cloud services by the end of this book you’ll be able to build a secure software delivery pipeline from development to production using google cloud managed services and best practices what you will learn create an end to end continuous delivery pipeline using cloud build artifact registry and cloud deploy develop build and deploy container based applications with skaffold and cloud code experiment with ai assisted code generation in cloud code automate continuous integration with cloud build triggers automate deployment on gke and cloud run through cloud deploy enhance pipeline security with artifact analysis binary authorization and slsa apply best practices including logging and monitoring who this book is for this book is for devops platform and cloud engineers tasked with managing application deployment and creating continuous delivery pipelines who want to automate workflows in a fully managed scalable and secure platform software developers involved in application delivery and interested in harnessing google cloud tools to optimize development flow status and feedback loop will also find this book useful prior knowledge of
google cloud fundamentals including cloud apis and iam software
delivery containerization and kubernetes will enhance the
reading experience

Secure Continuous Delivery on Google Cloud 2024-04-12 build
and deploy mobile business apps that smoothly integrate with
enterprise it for today's enterprises mobile apps can have a truly
transformational impact however to maximize their value you
can't build them in isolation your new mobile apps must reflect
the revolutionary mobile paradigm and delight today's mobile
users but they must also integrate smoothly with existing
systems and leverage previous generations of it investment in
this guide a team of ibm's leading experts show how to meet all
these goals drawing on extensive experience with pioneering
enterprise clients they cover every facet of planning building
integrating and deploying mobile apps in large scale production
environments you'll find proven advice and best practices for
architecture cloud integration security user experience coding
testing and much more each chapter can stand alone to help you
solve specific real world problems together they help you
establish a flow of devops activities and lifecycle processes fully
optimized for enterprise mobility

Enterprise Class Mobile Application Development
2015-11-19 the organization pursuing digital transformation must
embrace new ways to use and deploy integration technologies so
they can move quickly in a manner appropriate to the goals of
multicloud decentralization and microservices the integration
layer must transform to allow organizations to move boldly in
building new customer experiences rather than forcing models
for architecture and development that pull away from
maximizing the organization's productivity many organizations
have started embracing agile application techniques such as
microservice architecture and are now seeing the benefits of that
shift this approach complements and accelerates an enterprise's
api strategy businesses should also seek to use this approach to
modernize their existing integration and messaging infrastructure to achieve more effective ways to manage and operate their integration services in their private or public cloud. This IBM Redbooks publication explores the merits of what we refer to as agile integration: a container-based, decentralized, and microservice-aligned approach for integration solutions that meet the demands of agility, scalability, and resilience required by digital transformation. It also discusses how the IBM Cloud Pak for Integration marks a significant leap forward in integration technology by embracing both a cloud-native approach and container technology to achieve the goals of agile integration. The target audiences for this book are cloud integration architects, IT specialists, and application developers.

**Accelerating Modernization with Agile Integration**

2020-07-01 Software development continues to be an ever-evolving field as organizations require new and innovative programs that can be implemented to make processes more efficient, productive, and cost-effective. Agile practices, particularly, have shown great benefits for improving the effectiveness of software development and its maintenance due to their ability to adapt to change. It is integral to remain up to date with the most emerging tactics and techniques involved in the development of new and innovative software. The research anthology on agile software development and testing is a comprehensive resource on the emerging trends of software development and testing. This text discusses the newest developments in agile software and its usage spanning multiple industries featuring a collection of insights from diverse authors. This research anthology offers international perspectives on agile software covering topics such as global software engineering, knowledge management, and product development. This comprehensive resource is valuable to software developers, software engineers, computer engineers, IT directors, students, managers, faculty researchers, and academicians.
Research Anthology on Agile Software, Software Development, and Testing 2021-11-26 a guide to successfully operating in a lean agile organization for solutions architects and enterprise architects key features develop the right combination of processes and technical excellence to address architectural challenges explore a range of architectural techniques to modernize legacy systems discover how to design and continuously improve well architected sustainable software systems book description many organizations have embraced agile methodologies to transform their ability to rapidly respond to constantly changing customer demands however in this melee many enterprises often neglect to invest in architects by presuming architecture is not an intrinsic element of agile software development since the role of an architect is not predefined in agile many organizations struggle to position architects often resulting in friction with other roles or a failure to provide a clear learning path for architects to be productive this book guides architects and organizations through new agile ways of incrementally developing the architecture for delivering an uninterrupted continuous flow of values that meets customer needs you’ll explore various aspects of agile architecture and how it differs from traditional architecture the book later covers agile architects responsibilities and how architects can add significant value by positioning themselves appropriately in the agile flow of work through examples you’ll also learn concepts such as architectural decision backlog the last responsible moment value delivery architecting for change devops and evolutionary collaboration by the end of this agile book you’ll be able to operate as an architect in agile development initiatives and successfully architect reliable software systems what you will learn acquire clarity on the duties of architects in agile development understand architectural styles such as domain driven design and microservices identify the pitfalls of traditional architecture and learn how to develop solutions understand the
principles of value and data driven architecture
discover devops and continuous delivery from an architect's perspective
adopt lean agile documentation and governance
develop a set of personal and interpersonal qualities
find out how to lead the transformation to achieve organization wide agility
who this book is for: this agile study guide is for architects currently working on agile development projects or aspiring to work on agile software delivery irrespective of the methodology they are using. you will also find this book useful if you're a senior developer or a budding architect looking to understand an agile architect's role by embracing agile architecture strategies and a lean agile mindset. to understand the concepts covered in this book easily you need to have prior knowledge of basic agile development practices.

**Becoming an Agile Software Architect**

2021-03-19 this book presents the proceedings of the international conference on cyber physical systems and control cps c 2019 held in Peter the Great St. Petersburg Polytechnic University which is celebrating its 120th anniversary in 2019. The cps c 2019 was dedicated to the 35th anniversary of the partnership between Peter the Great St. Petersburg Polytechnic University and Leibniz University of Hannover. Cyber physical systems (cPSS) are a new generation of control systems and techniques that help promote prospective interdisciplinary research. A wide range of theories and methodologies are currently being investigated and developed in this area to tackle various complex and challenging problems. Accordingly, cPSS represent a scientific and engineering discipline that is set to make an impact on future systems of industrial and social scale that are characterized by the deep integration of real-time processing, sensing, and actuation into logical and physical heterogeneous domains. The cps c 2019 brought together researchers and practitioners from all over the world and to discuss cross-cutting fundamental scientific and engineering principles that underline the integration of cyber and physical...
elements across all application fields the participants represented research institutions and universities from Austria, Belgium, Bulgaria, China, Finland, Germany, the Netherlands, Russia, Syria, Ukraine, the USA, and Vietnam. These proceedings include 75 papers arranged into five sections namely keynote papers, fundamentals, applications, technologies, and education and social aspects.

**Cyber-Physical Systems and Control** 2019-11-29: the complete guide to increasing the DevOps maturity of your organization while adhering to AWS Well Architected principles.

Key features:
- Increase your organization’s DevOps maturity level from both strategic and tactical standpoint.
- Get hands-on AWS experience with ready to deploy code examples covering enterprise scenarios.
- Advance your career with practical advice to ensure customer satisfaction and stakeholder buy-in.

Purchase of the print or Kindle book includes a free PDF eBook.

Description: DevOps and AWS are the two key enablers for the success of any modern software run business. DevOps accelerates software delivery while AWS offers a plethora of services allowing developers to prioritize business outcomes without worrying about undifferentiated heavy lifting. This book focuses on the synergy between them, equipping you with strong foundations, hands-on examples, and a strategy to accelerate your DevOps journey on AWS. AWS DevOps Simplified is a practical guide that starts with an introduction to AWS DevOps offerings and aids you in choosing a cloud service that fits your company’s operating model. Following this, it provides hands-on tutorials on the GitOps approach to software delivery covering immutable infrastructure and pipelines using tools such as Packer, CDK, and CodeBuild, CodeDeploy. Additionally, it provides you with a deep understanding of AWS container services and how to implement observability and DevSecOps best practices to build and operate your multi-account, multi-region AWS environments. By the end of this book, you’ll be equipped with solutions and ready to deploy.
code samples that address common devops challenges faced by enterprises hosting workloads in the cloud what you will learn develop a strong and practical understanding of aws devops services manage infrastructure on aws using tools such as packer and cdk implement observability to bring key system behaviors to the surface adopt the devsecops approach by integrating aws and open source solutions gain proficiency in using aws container services for scalable software management map your solution designs with aws s well architected framework discover how to manage multi account multi region aws environments learn how to organize your teams to boost collaboration who this book is forthis book is for software professional who build or operate software on aws if you have basic knowledge of aws console or cli this book will help you build or enhance your devops skills by developing a solid foundational understanding of aws offerings you ll also find it useful if you re looking to optimize your software delivery cycles and build reliable cost optimized secure and sustainable solutions on aws AWS DevOps Simplified 2023-09-29 expert guidance on how to use amazon services to supercharge your digital services business in transforming your business with aws getting the most out of using aws to modernize and innovate your digital services renowned international consultant and sought after speaker philippe abdoulaye delivers a practical and accessible guide to using amazon services to modernize your business and the digital services you offer this book provides you with a concrete action plan to build a team capable of creating world class digital services and long term competitive advantages you ll discover what separates merely average digital service organizations from the truly outstanding as well as how moving to the cloud will enable your business to deliver your services faster better and more efficiently this book also includes a comprehensive overview of building industry leading digital service delivery capabilities including discussions of the development lifecycle
best practices and aws based development infrastructure
explanations of how to implement a digital business
transformation strategy an exploration of key roles like devops
continuous delivery continuous deployment continuous
integration automation and devsecops hands on treatments of
aws application management tools including elastic beanstalk
codedeploy and codepipeline perfect for executives managers
and other business leaders attempting to clarify and implement
their organization’s digital vision and strategy transforming your
business with aws is a must read reference that answers the why
and most importantly the how of digital transformation with
amazon services

Transforming Your Business with AWS 2021-10-06 continuous
delivery doesn’t stop with deployment modern software teams
rely on an emerging set of best practices postdeployment to
continuously improve their software with this practical guide ctos
software architects and senior engineering leaders will learn
what these practices are and how to apply them to their existing
operations author john kodumal cofounder and cto at
launchdarkly provides actionable insights into setting up and
maintaining a smooth operational process postdeployment you’ll
learn new approaches to releasing software controlling systems
at runtime and measuring the impact of change armed with this
knowledge you can easily anticipate the next planning and
building phase feeding back into the software development
lifecycle this book helps you understand why mature incident
management processes are an essential part of the ci cd story
use the tools and processes necessary to measure the impact of
change to production systems learn how to use canary launches
and feature flags to release faster with less risk set up effective
incident management systems to reduce the impact of broken
changes explore an emerging class of techniques that extend the
practice beyond deployment use experimentation and impact
analysis to continuously improve
**Operating Continuously** 2023-04-10 this open access book constitutes the proceedings of the 23rd international conference on agile software development xp 2022 which was held in copenhagen denmark in june 2022 xp is the premier agile software development conference combining research and practice it is a unique forum where agile researchers practitioners thought leaders coaches and trainers get together to present and discuss their most recent innovations research results experiences concerns challenges and trends xp conferences provide an informal environment to learn and trigger discussions and welcome both people new to agile and seasoned agile practitioners this year s conference was held with the theme agile in the era of hybrid work the 13 full papers and 1 short paper presented in this volume were carefully reviewed and selected from 40 submissions they were organized in topical sections named agile practices agile processes and agile in the large

**Agile Processes in Software Engineering and Extreme Programming** 2022-06-08 this volume constitutes the refereed proceedings of the 27th european conference on systems software and services process improvement eurospi conference held in düsseldorf germany in september 2020 the 50 full papers and 13 short papers presented were carefully reviewed and selected from 100 submissions they are organized in topical sections on visionary papers spi manifesto and improvement strategies spi and emerging software and systems engineering paradigms spi and standards and safety and security norms spi and team performance agile innovation spi and agile emerging software engineering paradigms digitalisation of industry infrastructure and e mobility good and bad practices in improvement functional safety and cybersecurity experiences with agile and lean standards and assessment models recent innovations virtual reality the conference was partially held virtually due to the covid 19 pandemic
Systems, Software and Services Process Improvement
2020-08-10 applying methodologies of software process improvement spi is an effective way for businesses to remain competitive in the software industry however many organizations find implementing software process initiatives challenging agile estimation techniques and innovative approaches to software process improvement reviews current spi techniques and applications through discussions on current and future trends as well as the presentation of case studies on spi implementation ideal for use by academics students and policy makers as well as industry professionals and managers this publication provides a complete overview of current tools and methodologies regarding software process improvement

Agile Estimation Techniques and Innovative Approaches to Software Process Improvement 2014-02-28 this book constitutes the refereed proceedings of the 14th software quality days conference swqd 2022 held in vienna austria during may 17 19 2022 the software quality days swqd conference started in 2009 and has grown to the biggest conference on software quality in europe the program of the swqd conference is designed to encompass a stimulating mixture of practical presentations and new research topics in scientific presentations the guiding conference topic of the swqd 2022 is what s the next big thing in software engineering and quality the 4 full papers presented in this volume were carefully reviewed and selected from 8 submissions the contributions were organized in two topical sections named ai in software engineering and quality assurance for software intensive systems the book also contains two invited talks

Software Quality: The Next Big Thing in Software Engineering and Quality 2022-04-11 globalization rapid technology churn and massive economic shifts have made it more difficult than ever to deliver high value enterprise software in enterprise software delivery ibm distinguished engineer alan w
brown guides decision makers in understanding these new challenges choosing today's best solutions and successfully anticipating future trends alan presents detailed actionable techniques for building software supply chains that improve agility and innovation while responding to growing cost pressure using real world case studies he introduces the modern global software factory demonstrating how to integrate and leverage global outsourced teams collaborative application lifecycle management and cloud based virtual infrastructures drawing on his extensive experience leading ibm rational software strategy and consulting with ibm enterprise customers alan illuminates everything from software r d to metrics coverage includes understanding recent dramatic changes in enterprise software delivery requirements and practices overcoming false assumptions outdated data and delivery models and inexperience with strategy innovation education or research incorporating integrators and partners in centers of excellence that specialize in delivering business value establishing team based practices that encourage agility scalability and quality building adaptive software factories that integrate real time feedback and respond rapidly to change using virtualized collaborative infrastructure to connect worldwide teams for developing software assembling solutions and delivering results transcending barriers related to geography organization skills and culture if you're an enterprise software leader strategist or practitioner this book can help you improve every facet of performance you care about including agility quality predictability innovation and value

Enterprise Software Delivery 2013 communication between man and machine is vital to completing projects in the current day and age without this constant connectiveness as we enter an era of big data project completion will result in utter failure agile approaches for successfully managing and executing projects in the fourth industrial revolution addresses changes wrought by
industry 4.0 and its effects on project management as well as adaptations and adjustments that will need to be made within project life cycles and project risk management highlighting such topics as agile planning cloud projects and organization structure. It is designed for project managers, executive management, students, and academicians.

**Agile Approaches for Successfully Managing and Executing Projects in the Fourth Industrial Revolution**

2019-03-15 This book aims to facilitate and improve development work related to all documents and information required by functional safety standards. Proof of compliance (POC) is important for the assessor and certification bodies when called upon to confirm that the manufacturer has developed a software system according to the required safety standards. While POC documents add functionality to the product, neither for the developer nor for the customer, they do add confidence and trust to the product and ease certification. As such, they are important for the product's value in spite of this added value, the documentation needed for POC is often developed late in the project and in a haphazard manner. This book aims at developers, assessors, certification bodies, and purchasers of safety instrumented systems and informs the reader about the most important POC documents. A typical POC documentation encompasses 50 to 200 documents, several of which are named in the safety standards, e.g., 82 documents in IEC 61508 2010 series, 101 documents in EN 50128 series, and 106 work products in ISO 26262 2018 series. These documents also include further references typically one to twenty of them and the total number of pages developed by the manufacturer varies between 2000 and 10000 pages. The book provides guidance and examples of what to include in the relevant plans and documents.

**Functional Safety and Proof of Compliance**

2022-01-03 Develop faster with DevOps. DevOps embraces a culture of unifying the creation and distribution of technology in a way that
allows for faster release cycles and more resource efficient product updating devops for dummies provides a guidebook for those on the development or operations side in need of a primer on this way of working inside devops evangelist emily freeman provides a roadmap for adopting the management and technology tools as well as the culture changes needed to dive head first into devops identify your organization's needs create a devops framework change your organizational structure manage projects in the devops world devops for dummies is essential reading for developers and operations professionals in the early stages of devops adoption

**DevOps For Dummies** 2019-07-29 get the summary of nicole forsgren jex humble and gene kim's accelerate in 20 minutes please note this is a summary not the original book accelerate by nicole forsgren jex humble and gene kim presents a research based analysis of the relationship between software delivery performance and organizational success the authors argue that software is a critical accelerator for businesses and that certain technical process and cultural capabilities are essential for positive outcomes they advocate for a capabilities model over traditional maturity models emphasizing continuous improvement and adaptability

**Summary of Nicole Forsgren, Jex Humble and Gene Kim's Accelerate** 2024-01-18 embark on a profound journey to mastering back end development in the ever evolving realm of technology mastering the art of back end development is crucial for creating robust and scalable web applications that power modern digital experiences mastering back end development is your definitive guide to navigating the intricate world of server side programming databases and apis whether you're a seasoned developer or an aspiring programmer this book equips you with the knowledge and skills needed to excel in crafting powerful and efficient back end systems about the book mastering back end development takes you on a transformative
journey through the intricacies of server side programming from foundational concepts to advanced techniques from databases and apis to security and performance this book covers it all each chapter is meticulously designed to provide both a deep understanding of the principles and practical applications in real world scenarios key features foundational understanding build a strong foundation by comprehending the core technologies of back end development including server side languages and databases database design and management explore database design principles learning how to create efficient database structures and perform complex queries server side languages master server side programming languages like python ruby php or node js and understand how to create dynamic web applications api development dive into building restful apis understanding api design principles authentication and how to enable communication between front end and back end systems security and authentication learn how to implement security measures including data encryption user authentication and protection against common web vulnerabilities caching and performance optimization gain insights into strategies for caching optimizing database queries and improving the overall performance of back end systems scalability and deployment explore techniques for designing scalable architectures and deploying back end applications to cloud platforms challenges and emerging trends discover challenges in back end development from maintaining data integrity to managing server resources and explore emerging trends shaping the future of server side programming who this book is for mastering back end development is designed for developers programmers software engineers students and anyone passionate about creating powerful web applications whether you re aiming to enhance your skills or embark on a journey toward becoming a back end development expert this book provides the insights and tools to navigate the complexities of building robust digital systems 2023
Mastering Back-end development 2012-01-10

It organizations face pressure to increase productivity improve application performance support global collaboration improve data protection and minimize costs in today's WAN centered environments. Traditional LAN oriented infrastructure approaches are insufficient to meet these goals. Application acceleration and WAN optimization fundamentals introduces a better solution integrating today's new generation of accelerator solutions to efficiently and effectively scale networks beyond traditional capabilities while improving performance and minimizing costs through consolidation. TED GREVERS and JOEL CHRISTNER begin by reviewing the challenges network professionals face in delivering applications to globally distributed workforces. You learn how accelerators are transforming application business models enabling IT departments to centralize and consolidate resources while also delivering consistently superior performance. Grevers and Christner show how to identify network consumers prioritize traffic and guarantee appropriate throughput and response times to business critical applications. You learn how to use Quality of Service techniques such as packet classification and marking and traffic policing, queuing, scheduling, and shaping next you compare options for integrating accelerators and optimization services into your network and for optimizing content delivery. The authors show how to address application protocol related performance problems that cannot be resolved through compression or flow optimization alone. In the final chapter the authors walk you through several real world scenarios for utilizing accelerator technology. TED GREVERS JR is the Solution Manager for the Cisco Video IPTV systems test and architecture team. He has extensive experience in the content delivery network CDN market focusing on enterprise and service provider content delivery and application optimization needs. JOEL CHRISTNER CCIE NO 15311 is the Manager of Technical Marketing for the Cisco
application delivery business unit adbu he has extensive experience with application protocols acceleration technologies lan wan infrastructure and storage networking grevers and christner are key contributors to the design and architecture of cisco application delivery and application acceleration solutions provide high performance access to remote data content video rich media and applications understand how accelerators can improve network performance and minimize bandwidth consumption use netflow to baseline application requirements and network utilization ensure network resources are allocated based on business priorities identify performance barriers arising from networks protocols operating systems hardware file systems and applications employ application specific acceleration components to mitigate the negative impact of latency and bandwidth consumption integrate content delivery networks cdn to centrally manage the acquisition security and distribution of content to remote locations leverage wan optimization technologies to improve application throughput mitigate the impact of latency and loss and minimize bandwidth consumption optimize the performance of wans and business critical wan applications this book is part of the cisco press fundamentals series books in this series introduce networking professionals to new networking technologies covering network topologies sample deployment concepts protocols and management techniques category cisco press networking covers network optimization

Application Acceleration and WAN Optimization Fundamentals 2023-08-18 discover various cloud services alongside modern software development practices and tools with the guidance of two industry leaders in devops purchase of the print or kindle book includes a free pdf ebook key features modernize continuous delivery in the cloud with strategic goals and objectives master continuous delivery with the right tools applications and use cases perform multi cluster and multi cloud
deployments efficiently book descriptionmany organizations are embracing cloud technology to remain competitive but implementing and adopting development processes while modernizing a cloud based ecosystem can be challenging strategizing continuous delivery in cloud helps you modernize continuous delivery and achieve infrastructure application convergence in the cloud you ll learn the differences between cloud based and traditional delivery approaches and develop a tailored strategy you ll discover how to secure your cloud delivery environment ensure software security run different test types and test in the pre production and production stages you ll also get to grips with the prerequisites for onboarding cloud based continuous delivery for organizational and technical aspects then you ll explore key aspects of readiness to overcome core challenges in your cloud journey including gitops progressive delivery controllers feature flagging differences between cloud based and traditional tools and implementing cloud chaos engineering by the end of this book you ll be well equipped to select the right cloud environment and technologies for cd and be able to explore techniques for implementing cd in the cloud what you will learn uncover the foundation for modernizing continuous delivery and prepare for continuous delivery in cloud build fast efficient secure and interoperable software for real world results understand end to end continuous delivery for multi cloud hybrid and on premise set up and scale continuous delivery in the cloud for maximum return implement cost optimization for continuous delivery in the cloud discover trends and advancements in cd with cloud native technologies who this book is forthis book is for developers site reliability engineers devops architects and engineers looking to strategize plan and implement continuous delivery in the cloud you must have a basic understanding of ci cd concepts and be familiar with cloud ecosystem devops or ci cd pipelines

Strategizing Continuous Delivery in the Cloud 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 features 
address devops implementation issues including culture toolchain costs improving work and information flows and product team alignment 
implement proven vsm methodology to improve it value stream flows 
leverage vsm platforms to view analyze and improve end to end value delivery 
book 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

Driving DevOps with Value Stream Management
2024-03-09 in blending design thinking with devops practices bridging concepts with devops for superior innovation emily c wong offers a compelling guide to merging the creative problem solving approach of design thinking with the technical agility of devops this book navigates the pathway towards revolutionizing product development emphasizing a synergy that accelerates innovation improves functionality and enhances user satisfaction wong s insights equip professionals with strategies to foster collaboration across teams streamline processes and create a culture of continuous improvement in the fast paced tech industry

Blending Design Thinking with DevOps Practices
2020-08-21 currently most organizations are dependent on is ict in order to support their business strategies is ict can promote the implementation of strategies and enhancers of optimization of the various aspects of the business in market enterprises and social organizations digital economy and icts are important tools that can empower social entrepreneurship initiatives to develop
fund and implement new and innovative solutions to social cultural and environmental problems the handbook of research on multidisciplinary approaches to entrepreneurship innovation and icts is an essential reference source that discusses the digitalization techniques of the modern workforce as well as important tools empowering social entrepreneurship initiatives featuring research on topics such as agile business analysis multicultural workforce and human resource management this book is ideally designed for business managers entrepreneurs it consultants researchers industry professionals human resource consultants academicians and students

**Handbook of Research on Multidisciplinary Approaches to Entrepreneurship, Innovation, and ICTs**

2020-03-13 leverage kubernetes and container architecture to successfully run production ready workloads key featuresimplement kubernetes to orchestrate and scale applications proficiently leverage the latest features of kubernetes to resolve common as well as complex problems in a cloud native environment gain hands on experience in securing monitoring and troubleshooting your application book description kubernetes is a popular open source orchestration platform for managing containers in a cluster environment with this kubernetes cookbook you ll learn how to implement kubernetes using a recipe based approach the book will prepare you to create highly available kubernetes clusters on multiple clouds such as amazon services aws google cloud platform gcp azure alibaba and on premises data centers starting with recipes for installing and configuring kubernetes instances you ll discover how to work with kubernetes clients services and key metadata you ll then learn how to build continuous integration continuous delivery ci cd pipelines for your applications and understand various methods to manage containers as you advance you ll delve into kubernetes integration with docker and jenkins and even perform a batch process and configure data volumes you ll get to grips with
methods for scaling security monitoring logging and troubleshooting additionally this book will take you through the latest updates in kubernetes including volume snapshots creating high availability clusters with kops running workload operators new inclusions around kubectl and more by the end of this book you ll have developed the skills required to implement kubernetes in production and manage containers proficiently what you will learn: deploy cloud native applications on kubernetes automate testing in the devops workflow discover and troubleshoot common storage issues dynamically scale containerized services to manage fluctuating traffic needs understand how to monitor your containerized devops environment build devsecops into ci cd pipelines who this book is for this kubernetes book is for developers it professionals and devops engineers and teams who want to use kubernetes to manage scale and orchestrate applications in their organization basic understanding of kubernetes and containerization is necessary

*Kubernetes - A Complete DevOps Cookbook* 2011-10-25 many companies have a complex process for purchasing software that is required by it projects or better by the business usually software is purchased by a centralized procurement function and is either purchased on a project by project basis or as a large periodic software contract unfortunately purchasing software products does not automatically mean that these products are exploited throughout the organization providing the maximum possible value to the business units several issues call for a structured approach that gets the most business value out of software already purchased the objectives of this approach are to create maximum awareness throughout the organization of the software purchased track software use in it projects and act if products are not used at all used improperly or insufficiently used facilitate use of software products in projects especially when software products are complex and require a lot of integration we
can summarize the overall objective of this approach as ensuring that the business units in an organization obtain the maximum possible value of software products purchased which is also the scope of this ibm redbooks publication

Value Realization from Efficient Software Deployment

2010-12-10 shipping imperfect software is like going into debt when you incur debt the illusion of doing things faster can lead to exponential growth in the cost of maintaining software software debt takes five major forms technical quality configuration management design and platform experience in today's rush to market software debt is inevitable and that's okay if you're careful about the debt you incur and if you quickly pay it back in managing software debt leading agile expert chris sterling shows how understanding software debt can help you move products to market faster with a realistic plan for refactoring them based on experience writing for all agile software professionals sterling explains why you're going into software debt whether you know it or not and why the interest on that debt can bring projects to a standstill next he thoroughly explains each form of software debt showing how to plan for it intelligently and repay it successfully you'll learn why accepting software debt is not the same as deliberate sloppiness and you'll learn how to use the software debt concept to systematically improve architectural agility coverage includes managing tensions between speed and perfection and recognizing that you'll inevitably ship some not quite right code planning to minimize interest payments by paying debts quickly building architectures that respond to change and help enterprises run more smoothly incorporating emergent architecture concepts into daily activities using agile collaboration and refactoring techniques delivering code and other software internals that reduce the friction of future change using early automated testing to move past the break fix mentality scripting and streamlining both deployment and rollback implementing team configuration patterns and
knowledge sharing approaches that make software debt easier to repay clearing away technical impediments in existing architectures using the yagni you ain't gonna need it approach to strip away unnecessary complexity using this book's techniques senior software leadership can deliver more business value managers can organize and support development teams more effectively and teams and team members can improve their performance throughout the development lifecycle

**Managing Software Debt** 2015-05-31 as the volume of global internet traffic increases the internet is beginning to suffer from a broad spectrum of performance degrading infrastructural limitations that threaten to jeopardize the continued growth of new innovative services in answer to this challenge computer scientists seek to maintain the original design principles of the internet while allowing for a more dynamic approach to the manner in which networks are designed and operated the handbook of research on redesigning the future of internet architectures covers some of the hottest topics currently being debated by the internet community at large including internet governance privacy issues service delivery automation advanced networking schemes and new approaches to internet traffic forwarding and path computation mechanics targeting students network engineers and technical strategists this book seeks to provide a broad and comprehensive look at the next wave of revolutionary ideas poised to reshape the very foundation of the internet as we know it

**Handbook of Research on Redesigning the Future of Internet Architectures** 2024-04-04 serverless computing has emerged as a transformative technology gaining prominence over traditional cloud computing it is characterized by reduced costs lower latency and the elimination of server side management overhead and is driven by the increasing adoption of containerization and microservices architectures however there is a significant lack of comprehensive resources for
academic research purposes in this field serverless computing concepts technology and architecture addresses this gap and provides a comprehensive exploration of the fundamental concepts characteristics challenges applications and futuristic approaches of serverless computing. This book serves as a valuable reference for doctorate and post doctorate research scholars undergraduates and postgraduates in fields such as computer science information technology electronics engineering and other related disciplines. Serverless computing concepts technology and architecture is poised to be a one stop reference point for those seeking to understand and harness the potential of serverless computing. It will serve as a prominent guide for researchers in this field for years to come enriching their knowledge and advancing the study of serverless computing.

Serverless Computing Concepts, Technology and Architecture

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