

Effective Devops Building Collaboration Affinity

Effective DevOps with AWS Nathaniel Felsen 2017-07-31 Scale gracefully and maintain outstanding performance with your AWS-based infrastructure using DevOps principles About This Book Implement DevOps principles to take full advantage of the AWS stack and services Take expert look at solving problems faced by real developers and operation teams and learn to overcome them Learn from expert insights of the author who has worked with Silicon Valley's most high-profile companies Who This Book Is For This book is for developers, DevOps engineers and teams who want to build and use AWS for their software infrastructure. Basic computer science knowledge is required for this book. What You Will Learn Find out what it means to practice DevOps and what its principles are Build repeatable infrastructures using templates and configuration management Deploy multiple times a day by implementing continuous integration and continuous deployment pipelines Use the latest technologies, including containers and serverless computing, to scale your infrastructure Collect metrics and logs and implement an alerting strategy Make your system robust and secure In Detail The DevOps movement has transformed the way modern tech companies work. AWS which has been on the forefront of the Cloud computing revolution has also been a key contributor of this DevOps movement creating a huge range of managed services that help you implement the DevOps principles. In this book, you'll see how the most successful tech start-ups launch and scale their services on AWS and how you can too. Written by a lead member of Mediums DevOps team, this book explains how to treat infrastructure as code, meaning you can bring resources online and offline as necessary with the code as easily as you control your software. You will also build a continuous integration and continuous deployment pipeline to keep your app up to date. You'll find out how to scale your applications to offer maximum performance to users anywhere in the world, even when traffic spikes with the latest technologies, such as containers and serverless computing. You will also take a deep dive into monitoring and alerting to make sure your users have the best experience when using your service. Finally, you'll get to grips with ensuring the security of your platform and data. Style and approach This is a practical, hands-on, comprehensive guide to AWS, helping readers understand AWS in a step by step manner.

Engineering and Management of Data Centers Jorge Marx Gómez 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.

Collaborating in DevOps Culture Jennifer Davis 2019 Enterprises are learning that a large measure of success for adopting devops is the spirit of collaboration it instills among teams. While companies introduce devops to solve technical issues and shorten the development life cycle, many soon realize that people working together is a key part of the process. This practical report provides managers with practices and

strategies for fostering collaboration within their organizations. Authors Jennifer Davis and Ryn Daniels (Effective DevOps) explain how collaboration among development and operations teams is about building trust, empathy, and psychological safety. You'll learn how to promote these essential building blocks and help teams apply them through each stage of your development lifecycle. Discover how to empower employees, create more productive and innovative teams, and build a respectful workplace. Build durable, long-lasting relationships with colleagues by instilling trust, empathy, and team psychological safety Promote effective communication to increase understanding, assert influence, give recognition, and build community Strengthen engineering effectiveness by putting collaboration principles into practice throughout the development lifecycle Get actionable advice for promoting effective collaboration during your product's discovery, development, and production phases.

Dependability Engineering Fausto Pedro García Márquez 2018-06-06 The new technology and system communication advances are being employed in any system, being more complex. The system dependability considers the technical complexity, size, and interdependency of the system. The stochastic characteristic together with the complexity of the systems as dependability requires to be under control the Reliability, Availability, Maintainability, and Safety (RAMS). The dependability contemplates, therefore, the faults/failures, downtimes, stoppages, worker errors, etc. Dependability also refers to emergent properties, i.e., properties generated indirectly from other systems by the system analyzed. Dependability, understood as general description of system performance, requires advanced analytics that are considered in this book. Dependability management and engineering are covered with case studies and best practices. The diversity of the issues will be covered from algorithms, mathematical models, and software engineering, by design methodologies and technical or practical solutions. This book intends to provide the reader with a comprehensive overview of the current state of the art, case studies, hardware and software solutions, analytics, and data science in dependability engineering.

Learning DevOps Mikael Krief 2022-03-31 Implement modern DevOps techniques to increase business productivity, agility, reliability, security, and scalability Key Features Learn how to use business resources effectively for improved productivity and collaboration Use infrastructure as code practices to build large-scale cloud infrastructure Leverage the ultimate open source DevOps tools to achieve continuous integration and continuous delivery (CI/CD) Book DescriptionIn the implementation of DevOps processes, the choice of tools is crucial to the sustainability of projects and collaboration between developers and ops. This book presents the different patterns and tools for provisioning and configuring an infrastructure in the cloud, covering mostly open source tools with a large community contribution, such as Terraform, Ansible, and Packer, which are assets for automation. This DevOps book will show you how to containerize your applications with Docker and Kubernetes and walk you through the construction of DevOps pipelines in Jenkins as well as Azure pipelines before covering the tools and importance of testing. You'll find a complete chapter on DevOps practices and tooling for open source projects before getting to grips with security integration in DevOps using Inspec, Hashicorp Vault, and Azure Secure DevOps kit. You'll also learn about the reduction of downtime with blue-green deployment and feature flags techniques before finally covering common DevOps best practices for all your projects. By the end of this book, you'll have built a solid foundation in DevOps and developed the skills necessary to enhance a traditional software delivery process using modern software delivery tools and techniques. What you will learn Understand the basics of infrastructure as code patterns and practices Get an overview of Git command and Git flow Install and write Packer, Terraform, and Ansible code for provisioning and configuring cloud infrastructure based on Azure examples Use Vagrant to create a local development environment Containerize applications with Docker and Kubernetes Apply DevSecOps for testing compliance and securing DevOps infrastructure Build DevOps CI/CD pipelines with Jenkins, Azure Pipelines, and GitLab CI Explore blue-green deployment and DevOps practices for open sources projects Who this book is for If you are an application developer or a system administrator interested in understanding continuous integration, continuous delivery, and

containerization with DevOps tools and techniques, this book is for you. Knowledge of DevOps fundamentals and Git principles is required.

The Routledge Companion to Managing Digital Outsourcing Erik Beulen 2020-07-27 This unique comprehensive collection presents the latest multi-disciplinary research in strategic digital outsourcing and digital business strategy, providing a management decision-making framework for successful long-term relationships and collaboration based on trust and governance. Part I: Innovation in Business Models and Digital Outsourcing takes an internal company perspective on strategic digital outsourcing, and the importance of trust in outsourcing relationships. Part II: Inter-organizational Relations and Transfer explores topics underpinning service recipients and service suppliers' relationships including governance, knowledge transfer and legal aspects. Part III: From On-site to Cloud discusses the challenges presented by moving to a cloud environment, including risks and controls. Part IV: Developments to Come explores emerging technologies and their impact on digital outsourcing such as blockchain and the Internet of Things. In a fiercely competitive market, companies must transform their business models and embrace new approaches. This Companion provides a comprehensive management overview of strategic digital outsourcing and is an invaluable resource for researchers and advanced students in business and strategic information management, as well as a timely resource for systems professionals.

Real-Life Infrastructure as Code with AWS CDK Andre Sionek 2025-01-01 Dive into the world of Infrastructure as Code (IaC) with 'Real-Life Infrastructure as Code with AWS CDK'. Perfect for developers and data engineers, this guide offers practical examples, best practices, and expert insights into building and managing cloud infrastructure using AWS CDK. Whether you're looking to streamline deployments, enhance scalability, or secure your cloud environments, this book equips you with the knowledge to leverage IaC principles effectively. Transform your development workflow and bring your projects from concept to production. This book will show you how to build a modern software platform in Python using AWS CDK. Even if you use a different language, you will find this book useful because I focus on architecture patterns rather than syntax details. The book is divided into three parts: Foundations, Real-Life Examples, and Best Practices. begin with an introduction to IaC and CDK to help you quickly learn and refresh some concepts. Then, we dive into a series of real-life implementations of various services and components that you can use to build your software platform. All examples are complete and fully functional, as I have personally deployed them. Finally, I discuss some best practices that I have learned from experience and implemented in the examples. You'll learn: * AWS CDK and IaC concepts. * Cloud computing concepts and services, including the AWS Well-Architected Framework. * How to build a cloud-native software platform using CDK. * Create functional constructs to build your cloud application. * How to create a microservices architecture with CDK.

Learning DevOps Mikael Krief 2019-10-25 Simplify your DevOps roles with DevOps tools and techniques Key Features Learn to utilize business resources effectively to increase productivity and collaboration Leverage the ultimate open source DevOps tools to achieve continuous integration and continuous delivery (CI/CD) Ensure faster time-to-market by reducing overall lead time and deployment downtime Book DescriptionThe implementation of DevOps processes requires the efficient use of various tools, and the choice of these tools is crucial for the sustainability of projects and collaboration between development (Dev) and operations (Ops). This book presents the different patterns and tools that you can use to provision and configure an infrastructure in the cloud. You'll begin by understanding DevOps culture, the application of DevOps in cloud infrastructure, provisioning with Terraform, configuration with Ansible, and image building with Packer. You'll then be taken through source code versioning with Git and the construction of a DevOps CI/CD pipeline using Jenkins, GitLab CI, and Azure Pipelines. This DevOps handbook will also guide you in containerizing and deploying your applications with Docker and Kubernetes. You'll learn how to reduce deployment downtime with blue-green deployment and the feature flags technique, and study DevOps practices for open source projects. Finally, you'll grasp some best practices for reducing the overall application lead time to ensure faster time to market. By the end of this book, you'll have built a solid foundation in DevOps, and developed the skills necessary to enhance a traditional software delivery process using modern software delivery tools and techniques What you will learn Become well versed with DevOps culture and its practices Use Terraform and Packer for cloud

infrastructure provisioning Implement Ansible for infrastructure configuration Use basic Git commands and understand the Git flow process Build a DevOps pipeline with Jenkins, Azure Pipelines, and GitLab CI Containerize your applications with Docker and Kubernetes Check application quality with SonarQube and Postman Protect DevOps processes and applications using DevSecOps tools Who this book is for If you are a developer or a system administrator interested in understanding continuous integration, continuous delivery, and containerization with DevOps tools and techniques, this book is for you.

Effective DevOps Jennifer Davis 2016-05-30 Some companies think that adopting devops means bringing in specialists or a host of new tools. With this practical guide, you'll learn why devops is a professional and cultural movement that calls for change from inside your organization. Authors Ryn Daniels and Jennifer Davis provide several approaches for improving collaboration within teams, creating affinity among teams, promoting efficient tool usage in your company, and scaling up what works throughout your organization's inflection points. Devops stresses iterative efforts to break down information silos, monitor relationships, and repair misunderstandings that arise between and within teams in your organization. By applying the actionable strategies in this book, you can make sustainable changes in your environment regardless of your level within your organization. Explore the foundations of devops and learn the four pillars of effective devops Encourage collaboration to help individuals work together and build durable and long-lasting relationships Create affinity among teams while balancing differing goals or metrics Accelerate cultural direction by selecting tools and workflows that complement your organization Troubleshoot common problems and misunderstandings that can arise throughout the organizational lifecycle Learn from case studies from organizations and individuals to help inform your own devops journey

Future Intent-Based Networking Mikhailo Klymash 2021-12-09 So-called Intent-Based Networking (IBN) is founded on well-known SDN (Software-Defined Networking) and represents one of the most important emerging network infrastructure opportunities. The IBN is the beginning of a new era in the history of networking, where the network itself translates business intentions into appropriate network configurations for all devices. This minimizes manual effort, provides an additional layer of network monitoring, and provides the ability to perform network analytics and take full advantage of machine learning. The centralized, software-defined solution provides process automation and proactive problem solving as well as centralized management of the network infrastructure. With software-based network management, many operations can be performed automatically using intelligent control algorithms (artificial intelligence and machine learning). As a result, network operation costs, application response times and energy consumption are reduced, network reliability and performance are improved, network security and flexibility are enhanced. This will be a benefit for existing networks as well as evolved LTE-based mobile networks, emerging Internet of Things (IoT), Cloud systems, and soon for the future 5G/6G networks. The future networks will reach a whole new level of self-awareness, self-configuration, self-optimization, self-recovery and self-protection. This volume consists of 28 chapters, based on recent research on IBN. The volume is a collection of the most important research for the future intent-based networking deployment provided by different groups of researchers from Ukraine, Germany, Slovak Republic, Switzerland, South Korea, China, Czech Republic, Poland, Brazil, Belarus and Israel. The authors of the chapters from this collection present in depth extended research results in their scientific fields. The presented contents are highly interesting while still being rather practically oriented and straightforward to understand. Herewith we would like to wish all our readers a lot of inspiration by studying of the volume!

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 DescriptionAt 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 Culture and Practice with OpenShift Tim Beattie 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.

Effective Devops Aaron Brookes 2017-05-10 Devops stresses iterative efforts to break down information silos, monitor relationships, and repair misunderstandings that arise between and within teams in your organization. By applying the actionable strategies in this book, you can make sustainable changes in your environment regardless of your level within your organization.. With this practical guide, you'll learn why devops is a professional and cultural movement that calls for change from inside your organization. Author

Aaron Brookes provide several approaches for improving collaboration within teams, creating affinity among teams, promoting efficient tool usage in your company, and scaling up what works throughout your organization's inflection points.

DevOps Adoption Strategies: Principles, Processes, Tools, and Trends Martyn Coupland 2021-07-09 Gain in-depth insight into DevOps relative to your field of expertise and implement effective DevOps culture and processes within your organization Key Features Packed with step-by-step explanations and practical examples to help you get started with DevOps Develop the skills and knowledge you need to tackle the deployment of DevOps tools Discover technology trends such as FinOps and DevSecOps to get more value from DevOps Book Description DevOps is a set of best practices enabling operations and development teams to work together to produce higher-quality work and, among other things, quicker releases. This book helps you to understand the fundamentals needed to get started with DevOps, and prepares you to start deploying technical tools confidently. You will start by learning the key steps for implementing successful DevOps transformations. The book will help you to understand how aspects of culture, people, and process are all connected, and that without any one of these elements DevOps is unlikely to be successful. As you make progress, you will discover how to measure and quantify the success of DevOps in your organization, along with exploring the pros and cons of the main tooling involved in DevOps. In the concluding chapters, you will learn about the latest trends in DevOps and find out how the tooling changes when you work with these specialties. By the end of this DevOps book, you will have gained a clear understanding of the connection between culture, people, and processes within DevOps, and learned why all three are critically important. What you will learn Understand the importance of culture in DevOps Build, foster, and develop a successful DevOps culture Discover how to implement a successful DevOps framework Measure and define the success of DevOps transformation Get to grips with techniques for continuous feedback and iterate process changes Discover the tooling used in different stages of the DevOps life cycle Who this book is for This book is for IT professionals such as support engineers and systems engineers and developers looking to learn DevOps and for those going through DevOps transformation. General knowledge of IT and business processes will be helpful. You'll also find this book useful if you are in a business or service role within technology such as service delivery management. Basic familiarity with DevOps and transformational methods such as value streams and process are needed to get the most out of this book.

Innovative Data Communication Technologies and Application Jennifer S. Raj 2021-02-02 This book presents the latest research in the fields of computational intelligence, ubiquitous computing models, communication intelligence, communication security, machine learning, informatics, mobile computing, cloud computing and big data analytics. The best selected papers, presented at the International Conference on Innovative Data Communication Technologies and Application (ICIDCA 2020), are included in the book. The book focuses on the theory, design, analysis, implementation and applications of distributed systems and networks.

Proceedings of Eighth International Congress on Information and Communication Technology Xin-She Yang 2023-07-25 This book gathers selected high-quality research papers presented at the Eighth International Congress on Information and Communication Technology, held at Brunel University, London, on 20-23 February 2023. It discusses emerging topics pertaining to information and communication technology (ICT) for managerial applications, e-governance, e-agriculture, e-education and computing technologies, the Internet of Things (IoT) and e-mining. Written by respected experts and researchers working on ICT, the book offers a valuable asset for young researchers involved in advanced studies. The work is presented in four volumes.

Technical Debt in Practice Neil Ernst 2021-08-17 The practical implications of technical debt for the entire software lifecycle; with examples and case studies. Technical debt in software is incurred when developers take shortcuts and make ill-advised technical decisions in the initial phases of a project, only to be confronted with the need for costly and labor-intensive workarounds later. This book offers advice on how to avoid technical debt, how to locate its sources, and how to remove it. It focuses on the practical implications of technical debt for the entire software life cycle, with examples and case studies from companies that range from Boeing to Twitter. Technical debt is normal; it is part of most iterative development processes. But if debt is ignored, over time it may become unmanageably complex, requiring

developers to spend all of their effort fixing bugs, with no time to add new features--and after all, new features are what customers really value. The authors explain how to monitor technical debt, how to measure it, and how and when to pay it down. Broadening the conventional definition of technical debt, they cover requirements debt, implementation debt, testing debt, architecture debt, documentation debt, deployment debt, and social debt. They intersperse technical discussions with "Voice of the Practitioner" sidebars that detail real-world experiences with a variety of technical debt issues.

Effective DevOps Jennifer Davis 2016 Some companies think that adopting devops means bringing in specialists or a host of new tools. With this practical guide, you'll learn why devops is a professional and cultural movement that calls for change from inside your organization. Authors Ryn Daniels and Jennifer Davis provide several approaches for improving collaboration within teams, creating affinity among teams, promoting efficient tool usage in your company, and scaling up what works throughout your organization's inflection points. Devops stresses iterative efforts to break down information silos, monitor relationships, and repair misunderstandings that arise between and within teams in your organization. By applying the actionable strategies in this book, you can make sustainable changes in your environment regardless of your level within your organization. Explore the foundations of devops and learn the four pillars of effective devops Encourage collaboration to help individuals work together and build durable and long-lasting relationships Create affinity among teams while balancing differing goals or metrics Accelerate cultural direction by selecting tools and workflows that complement your organization Troubleshoot common problems and misunderstandings that can arise throughout the organizational lifecycle Learn from case studies from organizations and individuals to help inform your own devops journey.

Effective DevOps with AWS Yogesh Raheja 2018-09-28 Scale and maintain outstanding performance in your AWS-based infrastructure using DevOps principles Key Features Implement continuous integration and continuous deployment pipelines on AWS Gain insight from an expert who has worked with Silicon Valley's most high-profile companies Implement DevOps principles to take full advantage of the AWS stack and services Book Description The DevOps movement has transformed the way modern tech companies work. Amazon Web Services (AWS), which has been at the forefront of the cloud computing revolution, has also been a key contributor to the DevOps movement, creating a huge range of managed services that help you implement DevOps principles. *Effective DevOps with AWS, Second Edition* will help you to understand how the most successful tech start-ups launch and scale their services on AWS, and will teach you how you can do the same. This book explains how to treat infrastructure as code, meaning you can bring resources online and offline as easily as you control your software. You will also build a continuous integration and continuous deployment pipeline to keep your app up to date. Once you have gotten to grips with all this, we'll move on to how to scale your applications to offer maximum performance to users even when traffic spikes, by using the latest technologies, such as containers. In addition to this, you'll get insights into monitoring and alerting, so you can make sure your users have the best experience when using your service. In the concluding chapters, we'll cover inbuilt AWS tools such as CodeDeploy and CloudFormation, which are used by many AWS administrators to perform DevOps. By the end of this book, you'll have learned how to ensure the security of your platform and data, using the latest and most prominent AWS tools. What you will learn Implement automatic AWS instance provisioning using CloudFormation Deploy your application on a provisioned infrastructure with Ansible Manage infrastructure using Terraform Build and deploy a CI/CD pipeline with Automated Testing on AWS Understand the container journey for a CI/CD pipeline using AWS ECS Monitor and secure your AWS environment Who this book is for *Effective DevOps with AWS* is for you if you are a developer, DevOps engineer, or you work in a team which wants to build and use AWS for software infrastructure. Basic computer science knowledge is required to get the most out of this book.

DevOps Master Courseware Alejandro Pestchanker 2019-10-25 Besides the DevOps Master Courseware (ISBN: 978 94 018 313 7) publication you are advised to obtain the publication *The DevOps Handbook: How to Create World-Class Agility, Reliability, and Security in Technology Organizations* (ISBN: 978 19 427 8800 3). The word DevOps is a contraction of 'Development' and 'Operations'. DevOps is a set of best practices that emphasize the collaboration and communication of IT-professionals (developers, operators, and support staff) in the lifecycle of applications and services, leading to:

- Continuous Integration: merging all

developed working copies to a shared mainline sever Besides the DevOps Master Courseware (ISBN: 978 94 018 362 5) publication you are advised to obtain the publication *The DevOps Handbook: How to Create World-Class Agility, Reliability, and Security in Technology Organizations* (ISBN: 978 19 427 8800 3). The word DevOps is a contraction of 'Development' and 'Operations'. DevOps is a set of best practices that emphasize the collaboration and communication of IT-professionals (developers, operators, and support staff) in the lifecycle of applications and services, leading to:

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

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

- The First Way is to enable the work to move fast from left to right, from Development to Operations to the customer.
- The Second Way is to enable feedback to go fast from right to left, from all stakeholders back into the value stream.
- The Third Way is to enable learning by creating a high-trust culture of experimentation and risk-taking. Moreover, the crucial subjects of security in all stages, and maintaining compliance during change are covered. The certification has been developed in cooperation with experts in the DevOps work field. Recommended per knowledge: Pre-knowledge of Agile, Lean and/or IT Service Management, for instance through the EXIN Agile Scrum Foundation exam, LITA Lean IT Foundation exam or EXIN IT Service Management Foundation based on ISO/IEC 20000 exam, is recommended.

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Effective DevOps Building Collaboration Affinity

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