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The DevOps 2.0 Toolkit: Automating the Continuous ...

The DevOps 2.0 Toolkit is the perfect primer for anyone looking into continuous delivery or automation. You ' ll learn all the core fundamentals before learning how to automate these tasks.

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DevOps is a big field and it ' s growing every year. If you can learn both sides of the coin you ' ll become a true asset to any team you join. Book Contents

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Mountain View, Calif., November 16, 2020 – Today Codefresh launched a new initiative – GitOps 2.0 – which seeks to solve limitations that have existed in GitOps and promote best practices for the future. Codefresh ' s support for the new standard includes several new tools aimed at improving the experience and speed of continuous integration and delivery (CI/CD) with GitOps, all to help ...

Codefresh Launches First Components of GitOps 2.0 Offering ...

Building on The DevOps 2.0 Toolkit and The DevOps 2.1 Toolkit: Docker Swarm, Viktor Farcic brings his latest exploration of the Docker technology as he records his journey to explore two new programs, self-adaptive and self-healing systems within Docker. The DevOps 2.2 Toolkit: Self-Sufficient Docker Clusters is the latest book in Viktor Farcic ' s series that helps you build a full DevOps Toolkit.

Automating the Continuous Deployment Pipeline with Containerized Microservices About This Book*
First principles of devops, Ansible, Docker, Kubernetes, microservices* Architect your software in a better and more efficient way with microservices packed as immutable containers* Practical guide describing an extremely modern and advanced devops toolchain that can be improved continuously Who This Book Is For If you are an intermediate-level developer who wants to master the whole microservices development and deployment lifecycle using some of the latest and greatest practices and tools, this is the book for you. Familiarity with the basics of Devops and Continuous Deployment will be useful. What You Will Learn * Get to grips with the fundamentals of Devops* Architect efficient software in a better and more efficient way with the help of microservices* Use Docker, Kubernetes, Ansible, Ubuntu,

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Docker Swarm and more* Implement fast, reliable and continuous deployments with zero-downtime and ability to roll-back* Learn about centralized logging and monitoring of your cluster* Design self-healing systems capable of recovery from both hardware and software failuresIn DetailBuilding a complete modern devops toolchain requires not only the whole microservices development and a complete deployment lifecycle, but also the latest and greatest practices and tools. Victor Farcic argues from first principles how to build a devops toolchain. This book shows you how to chain together Docker, Kubernetes, Ansible, Ubuntu, and other tools to build the complete devops toolkit.Style and approach This book follows a unique, hands-on approach familiarizing you to the Devops 2.0 toolkit in a very practical manner. Although there will be a lot of theory, you won't be able to complete this book by reading it in a metro on a way to work. You'll need to be in front of your computer and get your hands dirty.

"This book is about techniques that help us architect software in a better and more efficient way: With microservices packed as immutable containers, then tested and deployed continuously to servers that are automatically provisioned with configuration management tools. It's about fast, reliable and continuous deployments with zero-downtime and the ability to roll-back. It's about scaling to any number of servers, designing self-healing systems capable of recovering from both hardware and software failures, and about centralized logging and monitoring of a cluster. We will cover some of the latest and greatest practices and a variety of tools such as: Docker, Kubernetes, Ansible, Ubuntu, Docker Swarm, Docker Compose, and Consul."--Back cover.

This book is about different techniques that help us architect software in a better and more efficient way:

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With microservices packed as immutable containers, tested and deployed continuously to servers that are automatically provisioned with configuration management tools. It's about fast, reliable and continuous deployments with zero downtime and ability to roll-back. It's about scaling to any number of servers, the design of self-healing systems capable of recuperation from both hardware and software failures and about centralized logging and monitoring of the cluster. In other words, this book envelops the whole microservices development and deployment lifecycle using some of the latest and greatest practices and tools. We'll use Docker, Kubernetes, Ansible, Ubuntu, Docker Swarm and Docker Compose, Consul, Registrator, confd and more. We'll go through many practices and even more tools. Finally, while there will be a lot of theory, this is a hands-on book. You won't be able to complete it by reading it on the metro, on the way to work. You'll have to read this book in front of your computer and get your hands dirty.

Learn from an expert on how to use Kubernetes, the most adopted container orchestration platform. About This Book Get a detailed, hands-on exploration of everything from the basic to the most advanced aspects of Kubernetes Explore the tools behind not only the official project but also the third-party add-ons Learn how to create a wide range of tools, including clusters, Role Bindings, and Ingress Resources with default backends, among many applicable, real-world creations Discover how to deploy and manage highly available and fault-tolerant applications at scale with zero downtime Who This Book Is For This book is for professionals experienced with Docker, looking to get a detailed overview from the basics to the advanced features of Kubernetes. What You Will Learn Let Viktor show you the wide range of features available in Kubernetes—from the basic to the most advanced features Learn how to use the tools not only from the official project but also from the wide range of third-party add-ons

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Understand how to create a pod, how to Scale Bids with Replica Sets, and how to install both Kubectl and Minikube Explore the meaning of terms such as container scheduler and Kubernetes Discover how to create a local Kubernetes cluster and what to do with it In Detail Building on The DevOps 2.0 Toolkit, The DevOps 2.1 Toolkit: Docker Swarm, and The DevOps 2.2 Toolkit: Self-Sufficient Docker Clusters, Viktor Farcic brings his latest exploration of the DevOps Toolkit as he takes you on a journey to explore the features of Kubernetes. The DevOps 2.3 Toolkit: Kubernetes is a book in the series that helps you build a full DevOps Toolkit. This book in the series looks at Kubernetes, the tool designed to, among other roles, make it easier in the creation and deployment of highly available and fault-tolerant applications at scale, with zero downtime. Within this book, Viktor will cover a wide range of emerging topics, including what exactly Kubernetes is, how to use both first and third-party add-ons for projects, and how to get the skills to be able to call yourself a “ Kubernetes ninja. ” Work with Viktor and dive into the creation and exploration of Kubernetes with a series of hands-on guides. Style and approach Readers join Viktor Farcic as he continues his exploration of DevOps and begins to explore the opportunities presented by Kubernetes.

An advanced exploration of the skills and knowledge required for operating Kubernetes clusters, with a focus on metrics gathering and alerting, with the goal of making clusters and applications inside them autonomous through self-healing and self-adaptation. Key Features The sixth book of DevOps expert Viktor Farcic's bestselling DevOps Toolkit series, with an overview of advanced core Kubernetes techniques,-oriented towards monitoring and alerting. Takes a deep dive into monitoring, alerting, logging, auto-scaling, and other subjects aimed at making clusters resilient, self-sufficient, and self-adaptive Discusses how to customise and create dashboards and alerts Book Description Building on

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The DevOps 2.3 Toolkit: Kubernetes, and The DevOps 2.4 Toolkit: Continuous Deployment to Kubernetes, Viktor Farcic brings his latest exploration of the Docker technology as he records his journey to monitoring, logging, and autoscaling Kubernetes. The DevOps 2.5 Toolkit: Monitoring, Logging, and Auto-Scaling Kubernetes: Making Resilient, Self-Adaptive, And Autonomous Kubernetes Clusters is the latest book in Viktor Farcic's series that helps you build a full DevOps Toolkit. This book helps readers develop the necessary skillsets needed to be able to operate Kubernetes clusters, with a focus on metrics gathering and alerting with the goal of making clusters and applications inside them autonomous through self-healing and self-adaptation. Work with Viktor and dive into the creation of self-adaptive and self-healing systems within Kubernetes. What you will learn Autoscaling Deployments and Statefulsets based on resource usage Autoscaling nodes of a Kubernetes cluster Debugging issues discovered through metrics and alerts Extending HorizontalPodAutoscaler with custom metrics Visualizing metrics and alerts Collecting and querying logs Who this book is for Readers with an advanced-level understanding of Kubernetes and hands-on experience.

Discover DevOps secrets from leading experts. Viktor Farcic interviews DevOps industries voices including Mike Kail, Greg Bledsoe, Jeff Sussna, James Turnbull, Kohsuke Kawaguchi, Liz Keogh, and more. Key Features Leading DevOps experts share their insights into modern DevOps practice Engage with the real-world challenges of putting DevOps to work Strengthen your DevOps practices now and prepare for future DevOps trends Book Description DevOps promises to break down silos, uniting organizations to deliver high quality output in a cross-functional way. In reality it often results in confusion and new silos: pockets of DevOps practitioners fight the status quo, senior decision-makers demand DevOps paint jobs without committing to true change. Even a clear definition of what DevOps

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is remains elusive. In DevOps Paradox, top DevOps consultants, industry leaders, and founders reveal their own approaches to all aspects of DevOps implementation and operation. Surround yourself with expert DevOps advisors. Viktor Farcic draws on experts from across the industry to discuss how to introduce DevOps to chaotic organizations, align incentives between teams, and make use of the latest tools and techniques. With each expert offering their own opinions on what DevOps is and how to make it work, you will be able to form your own informed view of the importance and value of DevOps as we enter a new decade. If you want to see how real DevOps experts address the challenges and resolve the paradoxes, this book is for you. What you will learn Expert opinions on: Introducing DevOps into real-world, chaotic business environments Deciding between adopting cutting edge tools or sticking with tried-and-tested methods Initiating necessary business change without positional power Managing and overcoming fear of change in DevOps implementations Anticipating future trends in DevOps and how to prepare for them Getting the most from Kubernetes, Docker, Puppet, Chef, and Ansible Creating the right incentives for DevOps success across an organization The impact of new techniques, such as Lambda, serverless, and schedulers, on DevOps practice Who this book is for Anybody interested in DevOps will gain a lot from this book. If you want to get beyond the simplistic ideals and engage with the deep challenges of putting DevOps to work in the real world, this book is for you.

Viktor Farcic's latest book, The DevOps 2.1 Toolkit: Docker Swarm, shows you how to successfully integrate Docker Swarm into your DevOps toolset. About This Book Expand your DevOps Toolkit with the DevOps thought leader, Viktor Farcic Build, test, deploy, and monitor services inside Docker Swarm clusters Translate your understanding to different hosting providers like AWS, Azure, and DigitalOcean Go beyond simple deployment to explore how to create a continuous deployment process Extend the

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deep understanding you gained from Viktor's DevOps 2.0 Toolkit book Who This Book Is For This book is for professionals interested in the full microservices life cycle combined with continuous deployment and containers. Target audience could be architects who want to know how to design their systems around microservices. It could be DevOps wanting to know how to apply modern configuration management practices and continuously deploy applications packed in containers. It is for developers who would like to take the process back into their hands as well as for managers who would like to gain a better understanding of the process used to deliver software from the beginning to the end. This book is for everyone wanting to know more about the software development life cycle starting from requirements and design, through the development and testing all the way until deployment and post-deployment phases. We'll create the processes taking into account the best practices developed by and for some of the biggest companies. What You Will Learn Learn all aspects of Docker Swarm from building, testing, deploying, and monitoring services inside Docker Swarm clusters, available since Docker 1.12. Master the deeper logic of DevOps with Viktor, so that you can successfully apply that logic across any specific set of tools you're working with. Translate a deep understanding to different hosting providers like AWS, Azure, DigitalOcean, among others. You'll go beyond simple deployment: you will explore with Viktor how to create a continuous deployment process. Accomplish zero-downtime deployments, and what to do in case of a failover. Know how to run services at scale, how to monitor the systems, and how to make it heal itself. In Detail Viktor Farcic's latest book, The DevOps 2.1 Toolkit: Docker Swarm, takes you deeper into one of the major subjects of his international best seller, The DevOps 2.0 Toolkit, and shows you how to successfully integrate Docker Swarm into your DevOps toolset. Viktor shares with you his expert knowledge in all aspects of building, testing, deploying, and monitoring services inside Docker Swarm clusters. You'll go through all the tools required for running a

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cluster. You'll travel through the whole process with clusters running locally on a laptop. Once you're confident with that outcome, Viktor shows you how to translate your experience to different hosting providers like AWS, Azure, and DigitalOcean. Viktor has updated his DevOps 2.0 framework in this book to use the latest and greatest features and techniques introduced in Docker. We'll go through many practices and even more tools. While there will be a lot of theory, this is a hands-on book. You won't be able to complete it by reading it on the metro on your way to work. You'll have to read this book while in front of the computer and get your hands dirty. Style and approach We'll go through many practices and even more tools. While there will be a lot of theory, this is a hands-on book. You'll have to read this book while in front of the computer and get your hands dirty. The goal is not to master one particular set of tools, but to learn the logic behind them so that you can apply it to your job in various contexts.

An exploration of continuous deployment to a Kubernetes cluster, using a wide range of Kubernetes platforms with instructions on how to develop a pipeline on a few of the most commonly used CI/CD platforms. Key Features The fifth book of DevOps expert Viktor Farcic's bestselling DevOps Toolkit series, with a discussion of the difference between continuous delivery vs. continuous deployment, and which is best for the user Guides readers through the continuous deployment process using Jenkins in a Kubernetes cluster Provides an overview of the best practices for building, testing, and deploying applications through fully automated pipelines. Book Description Building on The DevOps 2.3 Toolkit: Kubernetes, Viktor Farcic brings his latest exploration of the Docker technology as he records his journey to continuously deploying applications with Jenkins into a Kubernetes cluster. The DevOps 2.4 Toolkit: Continuously Deploying Applications with Jenkins to a Kubernetes Cluster is the latest book in Viktor Farcic's series that helps you build a full DevOps Toolkit. This book guides readers through the

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process of building, testing, and deploying applications through fully automated pipelines. Within this book, Viktor will cover a wide-range of emerging topics, including an exploration of continuous delivery and deployment in Kubernetes using Jenkins. It also shows readers how to perform continuous integration inside these clusters, and discusses the distribution of Kubernetes applications, as well as installing and setting up Jenkins. Work with Viktor and dive into the creation of self-adaptive and self-healing systems within Docker. What you will learn Gain an understanding of continuous deployment Learn how to build, test, and deploy applications into Kubernetes Execute continuous integration inside containers Who this book is for Readers with an intermediate level understanding of Kubernetes and hands-on experience.

Building on The DevOps 2.0 Toolkit and The DevOps 2.1 Toolkit: Docker Swarm, Viktor Farcic brings his latest exploration of the Docker technology as he records his journey to explore two new programs, self-adaptive and self-healing systems within Docker. The DevOps 2.2 Toolkit: Self-Sufficient Docker Clusters is the latest book in Viktor Farcic's series that helps you build a full DevOps Toolkit. This book in the series looks at Docker, the tool designed to make it easier in the creation and running of applications using containers. In this latest entry, Viktor combines theory with a hands-on approach to guide you through the process of creating self-adaptive and self-healing systems. Within this book, Viktor will cover a wide-range of emerging topics, including what exactly self-adaptive and self-healing systems are, how to choose a solution for metrics storage and query, the creation of cluster-wide alerts and what a successful self-sufficient system blueprint looks like. Work with Viktor and dive into the creation of self-adaptive and self-healing systems within Docker.

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Lean Software Development: An Agile Toolkit Adapting agile practices to your development organization Uncovering and eradicating waste throughout the software development lifecycle Practical techniques for every development manager, project manager, and technical leader Lean software development: applying agile principles to your organization In *Lean Software Development*, Mary and Tom Poppendieck identify seven fundamental "lean" principles, adapt them for the world of software development, and show how they can serve as the foundation for agile development approaches that work. Along the way, they introduce 22 "thinking tools" that can help you customize the right agile practices for any environment. Better, cheaper, faster software development. You can have all three – if you adopt the same lean principles that have already revolutionized manufacturing, logistics and product development. Iterating towards excellence: software development as an exercise in discovery Managing uncertainty: "decide as late as possible" by building change into the system. Compressing the value stream: rapid development, feedback, and improvement Empowering teams and individuals without compromising coordination Software with integrity: promoting coherence, usability, fitness, maintainability, and adaptability How to "see the whole" – even when your developers are scattered across multiple locations and contractors Simply put, *Lean Software Development* helps you refocus development on value, flow, and people – so you can achieve breakthrough quality, savings, speed, and business alignment.

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