Devops With Kubernetes Accelerating Software Delivery With Container Orchestrators

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Marcus Robinson - How we used Value Stream Mapping to accelerate DevOps adoption Accelerate your CI/CD on Kubernetes with Jenkins X (James Strachan) Kubernetes GitOps with Jenkins X: DevOps and Docker Live Show (Ep 57) *What is DevOps? - In Simple English* Introduction to Linode Kubernetes Engine for beginners ~~CI CD Build Test and Deploy to Kubernetes Cluster on Azure Cloud Live Webinar May 2- 2020 8x~~ ~~'Continuous delivery' Capabilities from Accelerate book~~ *DevOps Tutorial for Beginners | Learn DevOps in 7 Hours - Full Course | DevOps Training | Edureka Team Topologies at Parts Unlimited - Manuel Pais* **Top 10 DevOps Tools | Which DevOps Tool Should I Learn | DevOps Tutorial | DevOps Training | Edureka** Monoliths vs Microservices is Missing the Point—Start with Team Cognitive Load - Team Topologies ~~DevOps DORA Metrics - Accelerate Value Streams Flow~~ *DevOps Skills in 2020 Kubernetes in 5 mins* **Do you need Coding/Programming to become GOOD DevOps/Cloud Engineer? The Best DevOps Tools for 2020 (What DevOps Tools to Use)**

Which DevOps tools should I Learn to become a DevOps Engineer

What's the Difference Between DevOps and SRE? (class SRE implements DevOps)**What is DevOps? Easy way**

Scrum vs Kanban - What's the Difference?Introduction to Microservices, Docker, and Kubernetes

The Key to High Performance: What the Data Says - Dr. Nicole Forsgren~~Delight Your DevOps Teams By Accelerating Change - ServiceNow~~ *Top 5 MUST READ Books for DevOps Cloud-Native DevOps with Kubernetes and Serverless (Cloud Next '19 UK)* CI CD Pipeline Using Jenkins | Continuous Integration and Deployment | DevOps Tutorial | Edureka Nicole Forsgren, Jez Humble - The Secrets of High Performance- What the Data Says Level-up Your DevOps with GitHub Actions and Kubernetes A Leader's Guide to DevOps Practices and Culture Kubernetes CI CD with AWS EKS and Jenkins X - Henryk Konsek *Devops With Kubernetes Accelerating Software*
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DevOps with Kubernetes: Accelerating software delivery ...
Kubeadm is a tool with built-in commands to start a minimal Kubernetes cluster. It is used for bootstrapping a cluster and not provisioning machines. Using kubeadm, you can run some basic commands to bootstrap a cluster, create a token to join a cluster, revert changes made to a Kubernetes cluster, etc.

7 Kubernetes Management Software for DevOps
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DevOps has revolutionized software development. It empowers organizations around the world to deliver applications and services at lightning speed by eliminating bottlenecks in the traditional coding pipeline. Using DevOps practices, teams can provide value to their company in a fraction of the time.

The Role of CloudBees and Kubernetes in Moving DevOps to ...
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Using containerization to deliver software at-scale with zero downtime Overview A global professional services firm wanted to learn how to release software at scale with automated testing and a containerized development approach. The firm's existing tax application deployment process was slow and infrequent — only being released once or twice a year — which was [...]

Accelerating Software Delivery with Automated Testing and ...
Kubernetes (K8s) has emerged as the prominent container orchestration platform for building cloud native applications. It represents a massive opportunity to accelerate digital transformation, leverage cloud-based technologies, and differentiate an enterprise's products and services through innovation.

What Enterprise RFPs Require from Kubernetes and Container ...
Low-code development is not a new concept, but since the onset of the COVID-19 pandemic earlier this year, it has become increasingly popular. Low code

Low Code: A Modern Approach to Software ... - devops.com
DevOps with Kubernetes: Accelerating software delivery with container orchestrators, 2nd Edition Paperback – January 31, 2019. Enter your mobile number or email address below and we'll send you a link to download the free Kindle App. Then you can start reading Kindle books on your smartphone, tablet, or computer - no Kindle device required.

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DevOps with Kubernetes - Second Edition
DevOps with Kubernetes: Accelerating software delivery with container orchestrators eBook: Hideto Saito, Hui-Chuan Chloe Lee, Cheng-Yang Wu: Amazon.ca: Kindle Store

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"From project planning and source code management to CI/CD and monitoring, GitLab is a complete DevOps platform, delivered as a single application. Only GitLab enables Concurrent DevOps to make the software lifecycle 200% faster."

The first single application for the entire DevOps ...
55% of Gremlin customers run Chaos Engineering experiments on Kubernetes to mitigate failure and optimize performanceSan Jose, CA, Nov. 17, 2020 (GLOBE NEWSWIRE) -- Gremlin, a platform for safely and securely running Chaos Engineering experiments, today announced new features to "soundproof" Kubernetes and help engineers prevent noisy neighbors in a cluster. The idea of sharing resources ...

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 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 Web 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.

Leverage the power of Kubernetes to build an efficient software delivery pipeline. Key Features Learn about DevOps, containers, and Kubernetes all within one handy book A 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 Web Services, and Microsoft Azure. What you will learn Learn fundamental and advanced DevOps skills and tools Get a comprehensive understanding of containers Dockerize an application Administrate 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 Web 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 skill 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.

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 orchestrationWho This Book Is ForThis 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* 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 KubernetesIn DetailContainerization 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 Web 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 approachReaders 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.

Kubernetes is one of the most popular, sophisticated, and fast-evolving container orchestrators. In this book, you'll learn the essentials and find out about the advanced administration and orchestration techniques in Kubernetes. Readers will also learn to manage containers using the latest version of Kubernetes with a recipe-based approach.

Kubernetes is the operating system of the cloud native world, providing a reliable and scalable platform for running containerized workloads. In this friendly, pragmatic book, cloud experts John Arundel and Justin Domingus show you what Kubernetes can do—and what you can do with it. You'll learn all about the Kubernetes ecosystem, and use battle-tested solutions to everyday problems. You'll build, step by step, an example cloud native application and its supporting infrastructure, along with a development environment and continuous deployment pipeline that you can use for your own applications. Understand containers and Kubernetes from first principles; no experience necessary Run your own clusters or choose a managed Kubernetes service from Amazon, Google, and others Use Kubernetes to manage resource usage and the container lifecycle Optimize clusters for cost, performance, resilience, capacity, and scalability Learn the best tools for developing, testing, and deploying your applications Apply the latest industry practices for security, observability, and monitoring Adopt DevOps principles to help make your development teams lean, fast, and effective

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.

Many companies move workloads to the cloud only to encounter issues with legacy processes and organizational structures. How do you design new operating models for this environment? This practical book shows IT managers, CIOs, and CTOs how to address the hardest part of any cloud transformation: the people and the processes. Author Mike Kavis (Architecting the Cloud) explores lessons learned from enterprises in the midst of cloud transformations. Youâ??ll learn how to rethink your approach from a technology, process, and organizational standpoint to realize the promise of cost optimization, agility, and innovation that public cloud platforms provide. Learn the difference between working in a data center and operating in the cloud Explore patterns and anti-patterns for organizing cloud operating models Get best practices for making the organizational change required for a move to the cloud Understand why site reliability engineering is essential for cloud operations Improve organizational performance through value stream mapping

For many organizations, a big part of DevOps' appeal is software automation using infrastructure-as-code techniques. This book presents developers, architects, and infra-ops engineers with a more practical option. You'll learn how a container-centric approach from OpenShift, Red Hat's cloud-based PaaS, can help your team deliver quality software through a self-service view of IT infrastructure. Three OpenShift experts at Red Hat explain how to configure Docker application containers and the Kubernetes cluster manager with OpenShift's developer- and operational-centric tools. Discover how this infrastructure-agnostic container management platform can help companies navigate the murky area where infrastructure-as-code ends and application automation begins. Get an application-centric view of automation—and understand why it's important Learn patterns and practical examples for managing continuous deployments such as rolling, A/B, blue-green, and canary Implement continuous integration pipelines with OpenShift's Jenkins capability Explore mechanisms for separating and managing configuration from static runtime software Learn how to use and customize OpenShift's source-to-image capability Delve into management and operational considerations when working with OpenShift-based application workloads Install a self-contained local version of the OpenShift environment on your computer

The way developers design, build, and run software has changed significantly with the evolution of microservices and containers. These modern architectures use new primitives that require a different set of practices than most developers, tech leads, and architects are accustomed to. With this focused guide, Bilgin Ibryam and Roland Huß from Red Hat provide common reusable elements, patterns, principles, and practices for designing and implementing cloud-native applications on Kubernetes. Each pattern includes a description of the problem and a proposed solution with Kubernetes specifics. Many patterns are also backed by concrete code examples. This book is ideal for developers already familiar with basic Kubernetes concepts who want to learn common cloud native patterns. You'll learn about the following pattern categories: Foundational patterns cover the core principles and practices for building container-based cloud-native applications. Behavioral patterns explore finer-grained concepts for managing various types of container and platform interactions. Structural patterns help you organize containers within a pod, the atom of the Kubernetes platform. Configuration patterns provide insight into how application configurations can be handled in Kubernetes. Advanced patterns covers more advanced topics such as extending the platform with operators.

The overwhelming majority of a software system's lifespan is spent in use, not in design or implementation. So, why does conventional wisdom insist that software engineers focus primarily on the design and development of large-scale computing systems? In this collection of essays and articles, key members of Google's Site Reliability Team explain how and why their commitment to the entire lifecycle has enabled the company to successfully build, deploy, monitor, and maintain some of the largest software systems in the world. You'll learn the principles and practices that enable Google engineers to make systems more scalable, reliable, and efficient—lessons directly applicable to your organization. This book is divided into four sections: Introduction—Learn what site reliability engineering is and why it differs from conventional IT industry practices Principles—Examine the patterns, behaviors, and areas of concern that influence the work of a site reliability engineer (SRE) Practices—Understand the theory and practice of an SRE's day-to-day work: building and operating large distributed computing systems Management—Explore Google's best practices for training, communication, and meetings that your organization can use

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