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While Kubernetes has greatly
simplified the task of deploying
containerized applications,
managing this orchestration

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framework on a daily basis can still be a complex undertaking. With this practical book, site reliability and DevOps engineers will learn how to build, operate, manage, and upgrade a Kubernetes cluster—whether it resides on cloud

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infrastructure or on-premises. Brendan Burns, cofounder of Kubernetes, and Craig Tracey, staff field engineer at Heptio, dissect how Kubernetes works internally and demonstrate ways to maintain, adjust, and improve the cluster to

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suit your particular use case. You'll learn how to make architectural choices for designing a cluster, managing access control, monitoring and alerting, and upgrading Kubernetes. Dive in and discover how to take full advantage

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of this orchestration framework's capabilities. Learn how your cluster operates, how developers use it to deploy applications, and how Kubernetes can facilitate a developer's job Adjust, secure, and tune your cluster by understanding

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Kubernetes APIs and configuration options Detect cluster-level problems early and learn the steps necessary to respond and recover quickly Determine how and when to add libraries, tools, and platforms that build on, extend, or otherwise

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improve a Kubernetes cluster
Apply Kubernetes beyond the basics of Kubernetes clusters by implementing IAM using OIDC and Active Directory, Layer 4 load balancing using MetalLB, advanced service integration, security,

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auditing, and CI/CDKey Features*
Find out how to add enterprise features to a Kubernetes cluster with theory and exercises to guide you* Understand advanced topics including load balancing, externalDNS, IDP integration,

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security, auditing, backup, and CI/CD* Create development clusters for unique testing requirements, including running multiple clusters on a single server to simulate an enterprise environmentBook

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Description Containerization has changed the DevOps game completely, with Docker and Kubernetes playing important roles in altering the flow of app creation and deployment. This book will help you acquire the knowledge and

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tools required to integrate Kubernetes clusters in an enterprise environment. The book begins by introducing you to Docker and Kubernetes fundamentals, including a review of basic Kubernetes objects. You'll then get

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to grips with containerization and understand its core functionalities, including how to create ephemeral multinode clusters using kind. As you make progress, you'll learn about cluster architecture, Kubernetes cluster deployment,

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and cluster management, and get started with application deployment. Moving on, you'll find out how to integrate your container to a cloud platform and integrate tools including MetalLB, externalDNS, OpenID connect (OIDC), pod

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security policies (PSPs), Open Policy Agent (OPA), Falco, and Velero. Finally, you will discover how to deploy an entire platform to the cloud using continuous integration and continuous delivery (CI/CD).By the end of this

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Kubernetes book, you will have learned how to create development clusters for testing applications and Kubernetes components, and be able to secure and audit a cluster by implementing various open-source solutions including

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OpenUnison, OPA, Falco, Kibana, and Velero. What you will learn*
Create a multinode Kubernetes cluster using kind* Implement Ingress, MetalLB, and ExternalDNS* Configure a cluster OIDC using impersonation* Map

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enterprise authorization to Kubernetes* Secure clusters using PSPs and OPA* Enhance auditing using Falco and EFK* Back up your workload for disaster recovery and cluster migration* Deploy to a platform using Tekton, GitLab, and

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ArgoCD Who this book is for This book is for anyone interested in DevOps, containerization, and going beyond basic Kubernetes cluster deployments. DevOps engineers, developers, and system administrators looking to enhance

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their IT career paths will also find this book helpful. Although some prior experience with Docker and Kubernetes is recommended, this book includes a Kubernetes bootcamp that provides a description of Kubernetes objects to

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help you if you are new to the topic or need a refresher.

Start using Kubernetes in complex big data and enterprise applications, including Docker containers. Starting with installing Kubernetes on a single node, the

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book introduces Kubernetes with a simple Hello example and discusses using environment variables in Kubernetes. Next, Kubernetes Microservices with Docker discusses using Kubernetes with all major groups of

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technologies such as relational databases, NoSQL databases, and in the Apache Hadoop ecosystem. The book concludes with using multi container pods and installing Kubernetes on a multi node cluster. /div "a concise but clear

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introduction to containers, Docker and Kubernetes, using simple real-world examples to pass on the core concepts, via repetition, and is a very useful enabler." 10/10 Dave Hay MBCS CITP: review for BCS, The Chartered Institute for IT (<http://>

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[/www.bcs.org/content/conWebDoc/58512](http://www.bcs.org/content/conWebDoc/58512)) What You Will Learn Install Kubernetes on a single node Set environment variables Create multi-container pods using Docker Use volumes Use Kubernetes with the Apache Hadoop ecosystem,

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NoSQL databases, and RDBMSs
Install Kubernetes on a multi-node cluster
Who This Book Is For
Application developers including
Apache Hadoop developers,
database developers and NoSQL
developers.

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Strengthen your applications by adopting Test-Driven Development (TDD), the OpenAPI Specification, Continuous Integration (CI), and container orchestration. Key Features Create production-grade JavaScript applications from

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scratch Build microservices and deploy them to a Docker container for scaling applications Test and deploy your code with confidence using Travis CI Book Description With the over-abundance of tools in the JavaScript ecosystem, it's easy

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to feel lost. Build tools, package managers, loaders, bundlers, linters, compilers, transpilers, typecheckers - how do you make sense of it all? In this book, we will build a simple API and React application from scratch. We begin

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by setting up our development environment using Git, yarn, Babel, and ESLint. Then, we will use Express, Elasticsearch and JSON Web Tokens (JWTs) to build a stateless API service. For the front-end, we will use React, Redux, and

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Webpack. A central theme in the book is maintaining code quality. As such, we will enforce a Test-Driven Development (TDD) process using Selenium, Cucumber, Mocha, Sinon, and Istanbul. As we progress through the book, the

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focus will shift towards automation and infrastructure. You will learn to work with Continuous Integration (CI) servers like Jenkins, deploying services inside Docker containers, and run them on Kubernetes. By following this book, you would gain

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the skills needed to build robust, production-ready applications. What you will learn Practice Test-Driven Development (TDD) throughout the entire book Use Cucumber, Mocha and Selenium to write E2E, integration, unit and UI

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tests Build stateless APIs using Express and Elasticsearch
Document your API using OpenAPI and Swagger Build and bundle front-end applications using React, Redux and Webpack Containerize services using Docker Deploying

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scalable microservices using Kubernetes Who this book is for If you're a JavaScript developer looking to expand your skillset and become a senior JavaScript developer by building production-ready web applications, then this

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book is for you.

Cloud Native DevOps with
Kubernetes

Official Ubuntu Book

Effectively orchestrate Windows
container workloads using
Kubernetes

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Mastering Kubernetes
Getting Started with Docker
Enterprise Edition on IBM Z
Automating the Container
Orchestration Platform
Effectively containerize
applications, integrate enterprise

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systems, and scale applications in your enterprise

This is the Rough Cut version of the printed book Start out running a few Docker container images in Ubuntu, Fedora, RHEL, CoreOS or Project Atomic. End up deploying enterprise-quality, multi-container Kubernetes

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setups in a Linux or cloud environment. In between, learn best practices for building containers from Dockerfile files, integrating them with host storage and networking, and accessing special host privileges. Whether you are a system administrator, software developer or just an enthusiast, Docker Containers: From

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Start to Enterprise launches you into the latest Docker container technology. Examine fun and useful real-world Docker container examples and learn how to leverage them to build your own Dockerized applications. With Docker Containers: From Start to Enterprise you will be able to: install Docker on

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standard Linux or specialized container operating systems; set up a private Docker Registry; create, run and investigate Docker images and containers; pull and push containers between local systems and Docker Registries; integrate Docker containers with host networking and storage.

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orchestrate multiple containers into complex applications with Kubernetes; and employ best practices when developing containerized applications. Learn how to schedule and run application containers using Kubernetes. About This Book Get well-versed with the fundamentals of Kubernetes and get it

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*production-ready for deployments
Confidently manage your container
clusters and networks using Kubernetes
This practical guide will show you
container application examples
throughout to illustrate the concepts and
features of Kubernetes Who This Book Is
For This book is for developers, sys*

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admins, and DevOps engineers who want to automate the deployment process and scale their applications. You do not need any knowledge about Kubernetes. What You Will Learn Download, install, and configure the Kubernetes codebase Understand the core concepts of a Kubernetes cluster Be able to set up and

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access monitoring and logging for Kubernetes clusters Set up external access to applications running in the cluster Understand how CoreOS and Kubernetes can help you achieve greater performance and container implementation agility Run multiple clusters and manage from a single

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control plane Explore container security as well as securing Kubernetes clusters Work with third-party extensions and tools In Detail Kubernetes has continued to grow and achieve broad adoption across various industries, helping you to orchestrate and automate container deployments on a massive scale. This

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book will give you a complete understanding of Kubernetes and how to get a cluster up and running. You will develop an understanding of the installation and configuration process. The book will then focus on the core Kubernetes constructs such as pods, services, replica sets, replication

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controllers, and labels. You will also understand how cluster level networking is done in Kubernetes. The book will also show you how to manage deployments and perform updates with minimal downtime. Additionally, you will learn about operational aspects of Kubernetes such as monitoring and logging.

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Advanced concepts such as container security and cluster federation will also be covered. Finally, you will learn about the wider Kubernetes ecosystem with OCP, CoreOS, and Tectonic and explore the third-party extensions and tools that can be used with Kubernetes. By the end of the book, you will have a complete

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understanding of the Kubernetes platform and will start deploying applications on it. Style and approach
This straightforward guide will help you understand how to move your container applications into production through best practices and a step-by-step walkthrough tied to real-world operational strategies.

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Migrating Linux to Microsoft Azure enables your organization to maximize the existing investments on Linux and become sustainable with efficient migration of existing Linux workloads to Azure.

The Practical Guide to Running Docker on Linux Systems or Cloud

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Environments Whether on your laptop or a remote cloud, Docker can transform how you create, test, deploy, and manage your most critical applications. In Docker Containers , Christopher Negus helps you master Docker containerization from the ground up. You'll start out running a few Docker container images in Ubuntu,

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Fedora, RHEL, CoreOS, or Project Atomic. By the time you've finished, you'll be deploying enterprise-quality, multi-container Kubernetes setups in modern Linux and cloud environments. Writing for system administrators, software developers, and technology enthusiasts, Negus touches on every

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aspect of working with Docker: setting up containerized applications, working with both individual and multiple containers, running containers in cloud environments, and developing containers. Teaching through realistic examples of desktop applications, system services, and games, Negus guides you through

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building and deploying your own Dockerized applications. As you build your expertise, you'll also learn indispensable Docker best practices for building and integrating containers, managing Docker on a day-to-day basis, and much more: • Understanding what Docker is and what you can do with it •

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Installing Docker on standard Linux or specialized container operating systems such as Atomic Host and CoreOS • Setting up a container runtime environment and private Docker Registry • Creating, running, and investigating Docker images and containers • Finding, pulling, saving, loading, and tagging

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container images • Pulling and pushing containers between local systems and Docker Registries • Integrating Docker containers with host networking and storage • Building containers with the docker build command and Dockerfile files • Minimizing space consumption and erasing unneeded containers •

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Accessing special host privileges from within a container • Orchestrating multiple containers into complex applications with Kubernetes • Using super privileged containers in cloud environments • Managing containers in the cloud with Cockpit • Getting started with Docker container development •

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Learning container build techniques from shared Dockerfiles This book is part of the Pearson Content Update Program. As the technology changes, sections of this book will be updated or new sections will be added. The updates will be delivered to you via a free Web Edition of this book, which can be accessed with

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any Internet connection.

Kubernetes and Docker - an Enterprise Guide

Kubernetes – An Enterprise Guide

A hands-on guide to efficiently relocating your Linux workload to Azure

Building, Deploying, and Scaling Modern Applications in the Cloud

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The definitive guide to Docker, Kubernetes, and the Container Ecosystem across Cloud and on-premises (English Edition)

Leverage AIOps and DevSecOps for secure digital transformation

Container Security

Kubernetes is the operating

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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

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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

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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

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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

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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,

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observability, and monitoring Adopt DevOps principles to help make your development teams lean, fast, and effective
A book that will help you become the Mozart of Microservices **KEY FEATURES ●**

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All codes tested on the latest software versions with visual illustrations. ● Covers bleeding-edge DevOps skills to build a future-proof job profile. ● Includes expert advice, industry insights, and

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logical analogies to craft a technical narrative.

DESCRIPTION *“Cracking Containers with Docker and Kubernetes” aims to be a comprehensive guide for learning and referencing all of the essential topics*

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related to creating, managing, and running containers with Docker and Kubernetes. Students and professionals working on Containerized web applications can use this book to lay strong

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conceptual foundations and sharpen their skills. The first few chapters provide an overall picture of resource virtualization in computing and demonstrate the potential of containers. The intermediate chapters

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get to extensive detail about Docker and Kubernetes. You will gain in-demand skills such as Docker and Kubernetes CLI, as well as how to write Dockerfiles, Compose files, and Kubernetes YAML Manifests.

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Topics like Networking, Storage, Access Control, and Security are discussed with real-world implications. The final chapters move Kubernetes and Containers to the cloud while expanding their ecosystem with tools

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for Serverless deployment, logging and monitoring, CI/CD, and more for a highly available production-ready setup. After reading this book you will be able to plan your application's migration to containers,

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prepare for Docker and Kubernetes Certifications, or apply for six digit DevOps jobs. WHAT YOU WILL LEARN ● Learn to create, manage and orchestrate Containers using Docker and Kubernetes. ● Practice

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writing Dockerfiles, Compose Files and Kubernetes YAML Manifests. ● Perform container networking, storage, authorization, security, and scaling in a production environment. ● Explore shipping, CI/CD,

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Service Mesh, Logging & Monitoring in detail. ● Get the Cracking Containers with Docker and Kubernetes know-how of hosted and Serverless Kubernetes on Cloud. WHO THIS BOOK IS FOR This book is intended for students,

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enthusiasts, and professionals in Software Development, DevOps, and Cloud Computing who want to put their career progress on a pedestal by reducing the operational and scaling costs of their web

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applications and optimizing their IT infrastructure utilization. TABLE OF CONTENTS

- 1. Prologue to the Containers*
- 2. Hello Containers!*
- 3. Introduction to Docker*
- 4. Writing Dockerfiles*
- 5. Gearing up*

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the toolbox! 6. Connectivity and Storage 7. Multi Container Applications with Docker Compose 8. Container Orchestration with Docker Swarm 9. Introduction to Kubernetes 10. Workload Orchestration with

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Kubernetes 11. Networking and Storage with Kubernetes 12. Advanced Orchestration with Kubernetes 13. Hosted Kubernetes on Cloud 14. Containers in Production with GKE 15. Serverless Containers 16. The

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Checkpoint

Apply Kubernetes beyond the basics of Kubernetes clusters by implementing IAM using OIDC and Active Directory, Layer 4 load balancing using MetalLB, advanced service

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integration, security, auditing, and CI/CD Key Features Find out how to add enterprise features to a Kubernetes cluster with theory and exercises to guide you Understand advanced topics including

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an enterprise environment

Book Description

Containerization has changed the DevOps game completely, with Docker and Kubernetes playing important roles in altering the flow of app creation and deployment.

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This book will help you acquire the knowledge and tools required to integrate Kubernetes clusters in an enterprise environment. The book begins by introducing you to Docker and Kubernetes fundamentals, including a

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review of basic Kubernetes objects. You'll then get to grips with containerization and understand its core functionalities, including how to create ephemeral multinode clusters using kind. As you make progress,

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you'll learn about cluster architecture, Kubernetes cluster deployment, and cluster management, and get started with application deployment. Moving on, you'll find out how to integrate your container to

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a cloud platform and integrate tools including MetalLB, externalDNS, OpenID connect (OIDC), pod security policies (PSPs), Open Policy Agent (OPA), Falco, and Velero. Finally, you will discover how to deploy an

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entire platform to the cloud using continuous integration and continuous delivery (CI/CD). By the end of this Kubernetes book, you will have learned how to create development clusters for testing applications and

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Kubernetes components, and be able to secure and audit a cluster by implementing various open-source solutions including OpenUnison, OPA, Falco, Kibana, and Velero. What you will learn Create a

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multinode Kubernetes cluster using kind Implement Ingress, MetalLB, and ExternalDNS Configure a cluster OIDC using impersonation Map enterprise authorization to Kubernetes Secure clusters using PSPs

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and OPA Enhance auditing using Falco and EFK Back up your workload for disaster recovery and cluster migration Deploy to a platform using Tekton, GitLab, and ArgoCD Who this book is for This book is for

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anyone interested in DevOps, containerization, and going beyond basic Kubernetes cluster deployments. DevOps engineers, developers, and system administrators looking to enhance their IT career paths will also find

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are new to the topic or need a refresher.

Build and deploy scalable cloud applications using Windows containers and Kubernetes Key Features Run, deploy, and orchestrate containers on the Windows

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*platform with this
Kubernetes book Use
Microsoft SQL Server 2019 as
a data store to deploy
Kubernetes applications
written in .NET Framework
Set up a Kubernetes
development environment and*

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deploy clusters with Windows Server 2019 nodes Book Description With the adoption of Windows containers in Kubernetes, you can now fully leverage the flexibility and robustness of the Kubernetes

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container orchestration system in the Windows ecosystem. This support will enable you to create new Windows applications and migrate existing ones to the cloud-native stack with the same ease as for Linux-

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oriented cloud applications. This practical guide takes you through the key concepts involved in packaging Windows-distributed applications into containers and orchestrating these using Kubernetes. You'll

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also understand the current limitations of Windows support in Kubernetes. As you advance, you'll gain hands-on experience deploying a fully functional hybrid Linux/Windows Kubernetes cluster for

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development, and explore production scenarios in on-premises and cloud environments, such as Microsoft Azure Kubernetes Service. By the end of this book, you'll be well-versed with containerization,

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microservices architecture, and the critical considerations for running Kubernetes in production environments successfully.

What you will learn

Understand containerization as a packaging format for

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applications Create a development environment for Kubernetes on Windows Grasp the key architectural concepts in Kubernetes Discover the current limitations of Kubernetes on the Windows platform

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Provision and interact with a Kubernetes cluster from a Windows machine Create hybrid Windows Kubernetes clusters in on-premises and cloud environments Who this book is for This book is for software developers, system

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administrators, DevOps engineers, and architects working with Kubernetes on Windows, Windows Server 2019, and Windows containers. Knowledge of Kubernetes as well as the Linux environment will help

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you get the most out of this book.

Kubernetes Patterns

Kubernetes and Docker - An Enterprise Guide

Hands-On Kubernetes on Windows

Build and Deploy with

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***Kubernetes, Flannel,
Cockpit, and Atomic
Ansible For Containers and
Kubernetes By Examples
Complete DevOps Gitlab and
Kubernetes
Kubernetes Security and
Observability***

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With the help of top-notch examples and activities, this workshop helps you to get practical with Docker containers. You'll learn its usage, advantages, and best practices to make the software deployment process

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smoother.

Design, deploy, and manage large-scale containers using Kubernetes Key Features Gain insight into the latest features of Kubernetes, including Prometheus and API aggregation Discover ways to

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keep your clusters always available, scalable, and up-to-date Master the skills of designing and deploying large clusters on various cloud platforms Book Description If you are running a number of

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containers and want to be able to automate the way they're managed, it can be helpful to have Kubernetes at your disposal. This Learning Path guides you through core Kubernetes constructs, such as pods,

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services, replica sets, replication controllers, and labels. You'll get started by learning how to integrate your build pipeline and deployments in a Kubernetes cluster. As you cover more chapters in the Learning

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Path, you'll get up to speed with orchestrating updates behind the scenes, avoiding downtime on your cluster, and dealing with underlying cloud provider instability in your cluster. With the help of real-world use

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cases, you'll also explore options for network configuration, and understand how to set up, operate, and troubleshoot various Kubernetes networking plugins. In addition to this, you'll

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gain insights into custom resource development and utilization in automation and maintenance workflows. By the end of this Learning Path, you'll have the expertise you need to progress from an

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intermediate to an advanced level of understanding Kubernetes. This Learning Path includes content from the following Packt products: Getting Started with Kubernetes - Third Edition by Jonathan Baier

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and Jesse White Mastering
Kubernetes - Second Edition
by Gigi Sayfan What you will
learn Download, install, and
configure the Kubernetes
code base Create and
configure custom Kubernetes
resources Use third-party

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resources in your automation workflows Deliver applications as standard packages Set up and access monitoring and logging for Kubernetes clusters Set up external access to applications running in the

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cluster Manage and scale
Kubernetes with hosted
platforms on Amazon Web
Services (AWS), Azure, and
Google Cloud Platform (GCP)
Run multiple clusters and
manage them from a single
control plane Who this book

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is for If you are a developer or a system administrator with an intermediate understanding of Kubernetes and want to master its advanced features, then this book is for you. Basic knowledge of

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networking is required to easily understand the concepts explained.

It is not only a comprehensive course, you are will not find a course similar to this. The course gradually builds upon core

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concepts and then practical application by means of hand-on tutorials. In this course, you'll learn and practice:

1. DevOps Best Practices
2. Creating Kubernetes Cluster
3. Creating Kubernetes Instance

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4. Work in the Google Cloud platform
5. Install GitLab in Ubuntu Linux within the Google Cloud - See Best Practice in action!
6. Work with Best Practices in installing Runner in Gitlab
7. Best practice with CI/CD

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Pipelines, and learn hands-on Pipeline fro Kubernetes

8. GitLab Enterprise

Installation Best Practice on Kubernetes engine 9.

GitLab SSH Keys, AutoDevOps, complete DevOps automation, including agile, waterfall

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approaches much more....
You'll put your new GitLab DevOps automation skills to the test by solving real-world problems faced by enterprise organizations. You will also get complete resources/commands list with

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this course! What you'll learn - You will learn Best Practice applied within the entire DevOps life cycle - Learn Gitlab Enterprise Edition and Deploy on Linux Ubuntu Instance on a Kubernetes Cluster - Create

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Kubernetes Cluster, VM Instances and work with SSH - Gitlab CI/CD Pipeline - Install and Configure Auto DevOps in Gitlab along with Runners for Jobs - Be able to understand complete DevOps life cycle in terms

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of enterprise software
development Course

Prerequisite - Google cloud platform credentials are required. You can register for free. - Basic knowledge of Software Development Life cycle (SDLC) is desirable,

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although not required - Fast Internet Connection - Tech Savvy - CI/CD Workflow is not covered in this course, rather focus on Best practice and Auto DevOps is covered. Per GitLab Auto DevOps is currently in Beta

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and not recommended for production use. Target Audience - DevOps Engineers - Web Developers - Enterprise Architects and Solution Design Specialists - Anyone who wants to learn Best Practices within the

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DevOps Life cycle - Anyone who wants to learn more about Kubernetes - Hands-on - Anyone who wants to learn about GitLab - The only single product for the complete DevOps lifecycle! Master the art of container

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management utilizing the power of Kubernetes. About This Book This practical guide demystifies Kubernetes and ensures that your clusters are always available, scalable, and up to date Discover new

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features such as autoscaling, rolling updates, resource quotas, and cluster size Master the skills of designing and deploying large clusters on various cloud platforms Who This Book Is For The book is

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for system administrators and developers who have intermediate level of knowledge with Kubernetes and are now waiting to master its advanced features. You should also have basic networking

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knowledge. This advanced-level book provides a pathway to master Kubernetes. What You Will Learn Architect a robust Kubernetes cluster for long-time operation Discover the advantages of running

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Kubernetes on GCE, AWS, Azure, and bare metal See the identity model of Kubernetes and options for cluster federation Monitor and troubleshoot Kubernetes clusters and run a highly available Kubernetes Create

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and configure custom
Kubernetes resources and use
third-party resources in
your automation workflows
Discover the art of running
complex stateful
applications in your
container environment

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Deliver applications as standard packages In Detail Kubernetes is an open source system to automate the deployment, scaling, and management of containerized applications. If you are running more than just a few

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containers or want automated management of your containers, you need Kubernetes. This book mainly focuses on the advanced management of Kubernetes clusters. It covers problems that arise when you start

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using container orchestration in production. We start by giving you an overview of the guiding principles in Kubernetes design and show you the best practises in the fields of security, high availability,

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and cluster federation. You will discover how to run complex stateful microservices on Kubernetes including advanced features as horizontal pod autoscaling, rolling updates, resource quotas,

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and persistent storage back ends. Using real-world use cases, we explain the options for network configuration and provides guidelines on how to set up, operate, and troubleshoot various Kubernetes

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networking plugins. Finally, we cover custom resource development and utilization in automation and maintenance workflows. By the end of this book, you'll know everything you need to know to go from intermediate

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to advanced level. Style and approach Delving into the design of the Kubernetes platform, the reader will be exposed to the advanced features and best practices of Kubernetes. This book will be an advanced level

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book which will provide a
pathway to master Kubernetes
Mastering MongoDB 4.x
Kubernetes Cookbook
Reusable Elements for
Designing Cloud-Native
Applications
Covering 18.04, 18.10, 19.04

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**From Start to Enterprise
Production Kubernetes
Dive into the Future of
Infrastructure**

A journey toward
containerized
applications in

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production with a cloud-portable, secure, robust and highly available Docker Enterprise platform. Key Features Get an insider's view into the container

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movement and Docker
Enterprise Manage the
transformation
associated with
enterprise container
adoption Walk through
the enterprise container

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adoption journey Book
Description While known
mostly as the open
source engine behind
tens of millions of
server nodes, Docker
also offers commercially

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supported enterprise tooling known as the Docker Enterprise. This platform leverages the deep roots from Docker Engine - Community (formerly Docker CE) and

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Kubernetes, but adds support and tooling to efficiently operate a secure container platform at scale. With hundreds of enterprises on board, best practices

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and adoption patterns are emerging rapidly. These learning points can be used to inform adopters and help manage the enterprise transformation

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associated with enterprise container adoption. This book starts by explaining the case for Docker Enterprise, as well as its structure and

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reference architecture. From there, we progress through the PoC, pilot and production stages as a working model for adoption, evolving the platform's design and

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configuration for each stage and using detailed application examples along the way to clarify and demonstrate important concepts. The book concludes with

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Docker's impact on other emerging software technologies, such as Blockchain and Serverless computing. By the end of this book, you'll have a better

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understanding of what it takes to get your enterprise up and running with Docker Enterprise and beyond. What you will learn Understand why

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containers are important to an enterprise. Understand the features and components of Docker Enterprise 2. Find out about the PoC, pilot, and production adoption.

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phases Get to know the best practices for installing and operating Docker Enterprise Understand what is important for a Docker Enterprise in production

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Run Kubernetes on Docker Enterprise Who this book is for This book is for Software Architects, DevOps Engineers, Tech Ops, Docker professionals, or any IT

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professional working with Docker and containers who wants to move containerized workloads to production. This book discusses the enterprise adoption of

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Docker and Kubernetes, therefore a basic understanding of Docker concepts will be helpful.

This book is for anyone who needs to run

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software using Docker and orchestrate it on Kubernetes. Whether you're a developer, a DevOps manager or a technician, this book should help you create

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Docker containers then plan and run them as Kubernetes workloads. I assume that you have no previous knowledge about containers or containers orchestration. I made my

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best to keep this book small, so that you can learn Kubernetes and Docker quickly without getting lost in petty details. If you are looking for a reference

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book where you'll find answers to all the questions you may have within the next 4 years of your Kubernetes practice, you'll find other heavy books for

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that. My purpose is to swiftly provide you with the tools you need to create and run your first cloud-ready application using Kubernetes and Docker,

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then be able to look for more by yourself when needed. Plus this book is packed with exercises and samples where you create, run and manage your own applications as

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Docker containers on your machine then on a Kubernetes cluster. Read this book, and you can create and run your first Kubernetes application within a

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week.

Leverage the lethal combination of Docker and Kubernetes to automate deployment and management of Java applications About This

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Book Master using Docker and Kubernetes to build, deploy and manage Java applications in a jiff Learn how to create your own Docker image and customize your own

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cluster using Kubernetes
Empower the journey from
development to
production using this
practical guide. Who
This Book Is For The
book is aimed at Java

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developers who are eager to build, deploy, and manage applications very quickly using container technology. They need have no knowledge of Docker and Kubernetes.

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What You Will Learn

Package Java

applications into Docker

images Understand the

running of containers

locally Explore

development and

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deployment options with
Docker Integrate Docker
into Maven builds Manage
and monitor Java
applications running on
Kubernetes clusters
Create Continuous

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Delivery pipelines for
Java applications
deployed to Kubernetes
In Detail Imagine
creating and testing
Java EE applications on
Apache Tomcat Server or

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Wildfly Application server in minutes along with deploying and managing Java applications swiftly. Sounds too good to be true? But you have a

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reason to cheer as such scenarios are only possible by leveraging Docker and Kubernetes. This book will start by introducing Docker and delve deep into its

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networking and persistent storage concepts. You will then proceed to learn how to refactor monolith application into separate services by

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building an application and then packaging it into Docker containers. Next, you will create an image containing Java Enterprise Application and later run it using

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Docker. Moving on, the book will focus on Kubernetes and its features and you will learn to deploy a Java application to Kubernetes using Maven

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and monitor a Java application in production. By the end of the book, you will get hands-on with some more advanced topics to further extend your

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knowledge about Docker and Kubernetes. Style and approach An easy-to-follow, practical guide that will help Java developers develop, deploy, and manage Java

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applications
efficiently.

Master core Kubernetes
concepts important to
enterprises from
security, policy, and
management point-of-

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view. Learn to deploy a service mesh using Istio, build a CI/CD platform, and provide enterprise security to your clusters. Key Features Extensively

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revised edition to cover the latest updates and new releases along with two new chapters to introduce Istio Get a firm command of Kubernetes from a dual

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perspective of an admin
as well as a developer
Understand advanced
topics including load
balancing, externalDNS,
global load balancing,
authentication

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integration, policy,
security, auditing,
backup, Istio and CI/CD
Book Description

Kubernetes has taken the world by storm, becoming the standard

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infrastructure for DevOps teams to develop, test, and run applications. With significant updates in each chapter, this revised edition will

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help you acquire the knowledge and tools required to integrate Kubernetes clusters in an enterprise environment. The book introduces you to Docker

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and Kubernetes fundamentals, including a review of basic Kubernetes objects. You'll get to grips with containerization and understand its core

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functionalities such as creating ephemeral multinode clusters using Kind. The book has replaced PodSecurityPolicies (PSP) with

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OPA/Gatekeeper for PSP-like enforcement. You'll integrate your container into a cloud platform and tools including MetalLB, externalDNS, OpenID connect (OIDC),

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Open Policy Agent (OPA), Falco, and Velero. After learning to deploy your core cluster, you'll learn how to deploy Istio and how to deploy both monolithic

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applications and microservices into your service mesh. Finally, you will discover how to deploy an entire GitOps platform to Kubernetes using continuous

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integration and continuous delivery (CI/CD). What you will learn Create a multinode Kubernetes cluster using Kind Implement Ingress, MetalLB, ExternalDNS,

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and the new sandbox project, K8GBConfigure a cluster OIDC and impersonation Deploy a monolithic application in Istio service mesh Map enterprise

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authorization to
Kubernetes Secure
clusters using OPA and
GateKeeper Enhance
auditing using Falco and
ECK Back up your
workload for disaster

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recovery and cluster migration Deploy to a GitOps platform using Tekton, GitLab, and ArgoCD Who this book is for This book is for anyone interested in

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DevOps ,
containerization, and
going beyond basic
Kubernetes cluster
deployments. DevOps
engineers, developers,
and system

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administrators looking to enhance their IT career paths will also find this book helpful. Although some prior experience with Docker and Kubernetes is

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recommended, this book includes a Kubernetes bootcamp that provides a description of Kubernetes objects to help you if you are new to the topic or need a

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refresher.

Docker Containers

(includes Content Update Program)

Effectively Containerize Applications, Integrate Enterprise Systems, and

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Scale Applications in
Your Enterprise

Become an expert in
container management
with the power of
Kubernetes

Ubuntu Unleashed 2019

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Edition

The Complete Kubernetes
Guide

Kubernetes: Up and
Running

Hybrid Cloud Apps with
OpenShift and Kubernetes

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Save time managing Containers, Kubernetes and OpenShift with Ansible automation technology with some real-life examples. Every successful IT department needs automation nowadays for bare metal servers, virtual machines, cloud, containers, and

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edge computing. Automate your IT journey with Ansible automation technology. I'm going to teach you example by example how to accomplish the most common Containers, Kubernetes, OpenShift and System Administrator tasks. You are

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going to start with the installation of Ansible in RedHat Enterprise Linux, Ubuntu, and macOS using the most command package manager and archives. Each of the 10+ lessons summarizes a module: from the most important parameter to

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some demo of code and real-life usage. Each code is battle proved in the real life. Console interaction and verification are included in every video. You are going to save tons of time automating the container management automating with

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some lines of code and these are only some of the long lists included in the course. Simplify your system administrator journey with Docker, podman, Kubernetes and OpenShift tools. These are technologies very requested in the market

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nowadays. Are you ready to automate your day with Ansible? The industry favorite Linux guide Linux Bible, 10th Edition is the ultimate hands-on Linux user guide, whether you're a true beginner or a more advanced user navigating recent changes.

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this updated tenth edition covers the latest versions of Red Hat Enterprise Linux (RHEL 8), Fedora 30, and Ubuntu 18.04 LTS. It includes information on cloud computing, with new guidance on containerization, Ansible automation, and

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Kubernetes and OpenShift. With a focus on RHEL 8, this new edition teaches techniques for managing storage, users, and security, while emphasizing simplified administrative techniques with Cockpit. Written by a Red Hat expert, this book

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provides the clear explanations and step-by-step instructions that demystify Linux and bring the new features seamlessly into your workflow. This useful guide assumes a base of little or no Linux knowledge, and takes you step by step through what you

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*need to know to get the job done.
Get Linux up and running quickly
Master basic operations and
tackle more advanced tasks Get
up to date on the recent changes
to Linux server system
management Bring Linux to the
cloud using Openstack and*

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Cloudforms Simplified Linux administration through the Cockpit Web Interface Automated Linux Deployment with Ansible Learn to navigate Linux with Amazon (AWS), Google (GCE), and Microsoft Azure Cloud services Linux Bible, 10th Edition

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is the one resource you need, and provides the hands-on training that gets you on track in a flash. In the race to compete in today's fast-moving markets, large enterprises are busy adopting new technologies for creating new products, processes, and

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business models. But one obstacle on the road to digital transformation is placing too much emphasis on technology, and not enough on the types of processes technology enables. What if different lines of business could build their own services

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and applications—and decision-making was distributed rather than centralized? This report explores the concept of a digital business platform as a way of empowering individual business sectors to act on data in real time. Much innovation in a digital

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enterprise will increasingly happen at the edge, whether it involves business users (from marketers to data scientists) or IoT devices. To facilitate the process, your core IT team can provide these sectors with the digital tools they need to

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innovate quickly. This report explores: Key cultural and organizational changes for developing business capabilities through cross-functional product teams A platform for integrating applications, data sources, business partners, clients, mobile

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apps, social networks, and IoT devices Creating internal API programs for building innovative edge services in low-code or no-code environments Tools including Integration Platform as a Service, Application Platform as a Service, and Integration

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Software as a Service The challenge of integrating microservices and serverless architectures Event-driven architectures for processing and reacting to events in real time You'll also learn about a complete pervasive integration solution as

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a core component of a digital business platform to serve every audience in your organization. Selling your CTO on the merits of OpenShift and Kubernetes is only the beginning. To operate and scale OpenShift, you also need to know how to manage and expose

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resources to application teams and continuously deliver changes to the applications running in these environments. With this practical book, new and experienced developers and operators will learn specific techniques for operationalizing

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OpenShift and Kubernetes in the enterprise. Industry experts Michael Elder, Jake Kitchener, and Brad Topol show you how to run OpenShift and Kubernetes in production and deliver your applications to a highly available, secure, and scalable platform.

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You'll learn how to build a strong foundation in advanced cluster operational topics, such as tenancy management, scheduling and capacity management, cost management, continuous delivery, and more. Examine the fundamental concepts of

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Kubernetes architecture Get different Kubernetes and OpenShift environments up and running Dive into advanced resource management topics, including capacity planning Learn how to support high availability inside a single cluster

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Use production-level approaches for continuous delivery and code promotion across clusters

Explore hybrid cloud use cases, including multicluster provisioning, upgrading, and policy support Devise and deliver disaster recovery strategies

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Docker Containers

Expert techniques to run high-volume and fault-tolerant database solutions using

MongoDB 4.x, 2nd Edition

10+ Automation Examples To Automate Containers, Kubernetes and OpenShift

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Be ready to create and run your containerized and orchestrated application next week.

Learn to build and deploy robust JavaScript applications using Cucumber, Mocha, Jenkins, Docker, and Kubernetes
Docker and Kubernetes for Java

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Developers

Designing Distributed Systems

Kubernetes is one of the most popular, sophisticated, and fast-evolving container orchestrators. In this book, you'll learn the essentials and

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find out about the advanced administration in Kubernetes. We'll take you through a step-by-step hands-on approach, which will familiarize you with the Kubernetes ecosystem. Legend has it that Google

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deploys over two billion application containers a week. How's that possible? Google revealed the secret through a project called Kubernetes, an open source cluster orchestrator (based on its

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internal Borg system) that radically simplifies the task of building, deploying, and maintaining scalable distributed systems in the cloud. This practical guide shows you how Kubernetes

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and container technology can help you achieve new levels of velocity, agility, reliability, and efficiency. Authors Kelsey Hightower, Brendan Burns, and Joe Beda—who've worked on Kubernetes at

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Google and other organizations—explain how this system fits into the lifecycle of a distributed application. You will learn how to use tools and APIs to automate scalable distributed

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systems, whether it is for online services, machine-learning applications, or a cluster of Raspberry Pi computers. Explore the distributed system challenges that Kubernetes addresses

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Dive into containerized application development, using containers such as Docker Create and run containers on Kubernetes, using the docker image format and container runtime Explore

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specialized objects essential for running applications in production Reliably roll out new software versions without downtime or errors Get examples of how to develop and deploy real-world

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**applications in Kubernetes
Leverage the power of
MongoDB 4.x to build and
administer fault-tolerant
database applications Key
Features Master the new
features and capabilities of**

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MongoDB 4.x Implement advanced data modeling, querying, and administration techniques in MongoDB
Includes rich case-studies and best practices followed by expert MongoDB developers

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Book Description MongoDB is the best platform for working with non-relational data and is considered to be the smartest tool for organizing data in line with business needs. The recently released MongoDB

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4.x supports ACID transactions and makes the technology an asset for enterprises across the IT and fintech sectors. This book provides expertise in advanced and niche areas of

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managing databases (such as modeling and querying databases) along with various administration techniques in MongoDB, thereby helping you become a successful MongoDB expert. The book

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helps you understand how the newly added capabilities function with the help of some interesting examples and large datasets. You will dive deeper into niche areas such as high-performance

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configurations, optimizing SQL statements, configuring large-scale sharded clusters, and many more. You will also master best practices in overcoming database failover, and master recovery and

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backup procedures for database security. By the end of the book, you will have gained a practical understanding of administering database applications both on premises

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and on the cloud; you will also be able to scale database applications across all servers. What you will learn Perform advanced querying techniques such as indexing and expressions Configure,

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monitor, and maintain a highly scalable MongoDB environment Master replication and data sharding to optimize read/write performance Administer MongoDB-based applications

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**on premises or on the cloud
Integrate MongoDB with big
data sources to process huge
amounts of data Deploy
MongoDB on Kubernetes
containers Use MongoDB in
IoT, mobile, and serverless**

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environments Who this book is for This book is ideal for MongoDB developers and database administrators who wish to become successful MongoDB experts and build scalable and fault-tolerant

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applications using MongoDB. It will also be useful for database professionals who wish to become certified MongoDB professionals. Some understanding of MongoDB and basic database

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concepts is required to get the most out of this book.

Operators are a way of packaging, deploying, and managing Kubernetes applications. A Kubernetes application doesn't just run on

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Kubernetes; it's composed and managed in Kubernetes terms. Operators add application-specific operational knowledge to a Kubernetes cluster, making it easier to automate complex,

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stateful applications and to augment the platform. Operators can coordinate application upgrades seamlessly, react to failures automatically, and streamline repetitive maintenance like

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backups. Think of Operators as site reliability engineers in software. They work by extending the Kubernetes control plane and API, helping systems integrators, cluster administrators, and

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application developers reliably deploy and manage key services and components. Using real-world examples, authors Jason Dobies and Joshua Wood demonstrate how to use Operators today

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and how to create Operators for your applications with the Operator Framework and SDK. Learn how to establish a Kubernetes cluster and deploy an Operator Examine a range of Operators from

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usage to implementation
Explore the three pillars of the Operator Framework: the Operator SDK, the Operator Lifecycle Manager, and Operator Metering Build Operators from the ground up

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using the Operator SDK Build, package, and run an Operator in development, testing, and production phases Learn how to distribute your Operator for installation on Kubernetes clusters

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A companion guide for agile container adoption

Enterprise DevOps for Architects

Migrating Linux to Microsoft Azure

The The Docker Workshop

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Managing Kubernetes Building Enterprise JavaScript Applications Operating Kubernetes Clusters in the Real World

An architect's guide to designing, implementing, and integrating

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DevOps in the enterprise Key Features Design a DevOps architecture that is aligned with the overall enterprise architecture Design systems that are ready for AIOps and make the move toward NoOps Architect and implement

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DevSecOps pipelines, securing the DevOps enterprise Book

Description Digital transformation is the new paradigm in enterprises, but the big question remains: is the enterprise ready for transformation using native technology embedded

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in Agile/DevOps? With this book, you'll see how to design, implement, and integrate DevOps in the enterprise architecture while keeping the Ops team on board and remaining resilient. The focus of the book is not to introduce the

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hundreds of different tools that are available for implementing DevOps, but instead to show you how to create a successful DevOps architecture. This book provides an architectural overview of DevOps, AIOps, and DevSecOps – the

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three domains that drive and accelerate digital transformation. Complete with step-by-step explanations of essential concepts, practical examples, and self-assessment questions, this DevOps book will help you to successfully

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integrate DevOps into enterprise architecture. You'll learn what AIOps is and what value it can bring to an enterprise. Lastly, you will learn how to integrate security principles such as zero-trust and industry security frameworks into

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DevOps with DevSecOps. By the end of this DevOps book, you'll be able to develop robust DevOps architectures, know which toolsets you can use for your DevOps implementation, and have a deeper understanding of next-level DevOps

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by implementing Site Reliability Engineering (SRE). What you will learn Create DevOps architecture and integrate it with the enterprise architecture Discover how DevOps can add value to the quality of IT delivery Explore strategies to scale

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DevOps for an enterprise Architect
SRE for an enterprise as next-level
DevOps Understand AIOps and
what value it can bring to an
enterprise Create your AIOps
architecture and integrate it into
DevOps Create your DevSecOps

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architecture and integrate it with the existing DevOps setup Apply zero-trust principles and industry security frameworks to DevOps Who this book is for This book is for enterprise architects and consultants who want to design DevOps systems

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for the enterprise. It provides an architectural overview of DevOps, AIOps, and DevSecOps. If you're looking to learn about the implementation of various tools within the DevOps toolchain in detail, this book is not for you.

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Kubernetes has become an essential part of the daily work for most system, network, and cluster administrators today. But to work effectively together on a production-scale Kubernetes system, they must be able to speak the same language.

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This book provides a clear guide to the layers of complexity and abstraction that come with running a Kubernetes network. Authors James Strong and Vallery Lancey bring you up to speed on the intricacies that Kubernetes has to

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offer for large container deployments. If you're to be effective in troubleshooting and maintaining a production cluster, you need to be well versed in the abstraction provided at each layer. This practical book shows you how.

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Learn the Kubernetes networking model Choose the best interface for your clusters from the CNCF Container Network Interface project Explore the networking and Linux primitives that power Kubernetes Quickly troubleshoot networking

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issues and prevent downtime

Examine cloud networking and

Kubernetes using the three major

providers: Amazon Web Services,

Google Cloud, and Microsoft Azure

Learn the pros and cons of various

network tools--and how to select the

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best ones for your stack

What is the difference between a virtual machine and a Docker container? A virtual machine (VM) is like a house. It is fully contained with its own plumbing and heating and cooling system. If you want

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another house, you build a new foundation, with new walls, new plumbing, and its own heating and cooling system. VMs are large. They start their own operating systems. Containers are like apartments in an apartment building. They share

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infrastructure. They can be many different sizes. You can have different sizes depending on the needs. Containers "live" in a Docker host. If you build a house, you need many resources. If you build an apartment building, each unit shares

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resources. Like an apartment, Docker is smaller and satisfies specific needs, is more agile, and more easily changed. This IBM® Redbooks® publication examines the installation and operation of Docker Enterprise Edition on the

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IBM Z® platform.

Schedule and run application containers using Kubernetes Key Features Get to grips with a wide range of tools to monitor and secure your deployments Manage your container clusters and networks

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using Kubernetes Get well-versed with the fundamentals of Kubernetes Book Description
Kubernetes has continued to grow and achieve broad adoption across various industries, helping you to orchestrate and automate container

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deployments on a massive scale.

Based on the recent release of Kubernetes 1.12, *Getting Started with Kubernetes* gives you a complete understanding of how to install a Kubernetes cluster. The book focuses on core Kubernetes

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constructs, such as pods, services, replica sets, replication controllers, and labels. You will understand cluster-level networking in Kubernetes, and learn to set up external access to applications running in the cluster. As you make

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your way through the book, you'll understand how to manage deployments and perform updates with minimal downtime. In addition to this, you will explore operational aspects of Kubernetes , such as monitoring and logging, later

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moving on to advanced concepts such as container security and cluster federation. You'll get to grips with integrating your build pipeline and deployments within a Kubernetes cluster, and be able to understand and interact with open

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source projects. In the concluding chapters, you'll orchestrate updates behind the scenes, avoid downtime on your cluster, and deal with underlying cloud provider instability within your cluster. By the end of this book, you'll have a complete

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understanding of the Kubernetes platform and will start deploying applications on it. What you will learn Download, install, and configure the Kubernetes code base Set up and access monitoring and logging for Kubernetes clusters Set

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up external access to applications running in the cluster Learn how to manage and scale kubernetes with hosted platforms on AWS, Azure, and GCP Run multiple clusters and manage them from a single control plane Discover top tools for

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deploying and managing a Kubernetes cluster Learn how to get production ready and harden Kubernetes operations, networking, and storage Who this book is for Getting Started with Kubernetes is for developers, system

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administrators, and DevOps engineers who want to automate the deployment process and scale their applications. No prior knowledge of Kubernetes is required.

Ubuntu Linux Bible

Extend your containerization

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strategy by orchestrating and managing large-scale container deployments, 3rd Edition

Learn Kubernetes & Docker - .NET Core, Java, Node.JS, PHP or Python

Kubernetes Microservices with

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Docker

Kubernetes Operators

Linux Bible

Fundamental Technology Concepts
that Protect Containerized
Applications

Kubernetes has become the

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dominant container orchestrator, but many organizations that have recently adopted this system are still struggling to run actual production workloads. In this practical book, four software engineers from VMware bring their shared experiences running

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Kubernetes in production and provide insight on key challenges and best practices. The brilliance of Kubernetes is how configurable and extensible the system is, from pluggable runtimes to storage integrations. For platform engineers, software developers,

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infosec, network engineers, storage engineers, and others, this book examines how the path to success with Kubernetes involves a variety of technology, pattern, and abstraction considerations. With this book, you will: Understand what the

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path to production looks like when using Kubernetes Examine where gaps exist in your current Kubernetes strategy Learn Kubernetes's essential building blocks--and their trade-offs Understand what's involved in making Kubernetes a viable

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location for applications Learn better ways to navigate the cloud native landscape

This IBM® Redpaper™ publication shows you how to deploy a database instance within a container using an IBM Cloud™ Private cluster on IBM Z®. A

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preinstalled IBM Spectrum™ Scale 5.0.3 cluster file system provides back-end storage for the persistent volumes bound to the database. A container is a standard unit of software that packages code and all its dependencies, so the application

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runs quickly and reliably from one computing environment to another. By default, containers are ephemeral. However, stateful applications, such as databases, require some type of persistent storage that can survive service restarts or container crashes. IBM

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provides several products helping organizations build an environment on an IBM Z infrastructure to develop and manage containerized applications, including dynamic provisioning of persistent volumes. As an example for a

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stateful application, this paper describes how to deploy the relational database MariaDB using a Helm chart. The IBM Spectrum Scale V5.0.3 cluster file system is providing back-end storage for the persistent volumes. This document provides step-by-step

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guidance regarding how to install and configure the following components: IBM Cloud Private 3.1.2 (including Kubernetes) Docker 18.03.1-ce IBM Storage Enabler for Containers 2.0.0 and 2.1.0 This Redpaper demonstrates how we set up the

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example for a stateful application in our lab. The paper gives you insights about planning for your implementation. IBM Z server hardware, the IBM Z hypervisor z/VM[®], and the IBM Spectrum Scale cluster file system are prerequisites to set up the

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example environment. The Redpaper is written with the assumption that you have familiarity with and basic knowledge of the software products used in setting up the environment. The intended audience includes the following

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roles: Storage administrators

IT/Cloud administrators

Technologists IT specialists

The best reference for Ubuntu

Linux Ubuntu Linux is a popular, powerful, and versatile operating system. Now you can get the most out of everything Ubuntu

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Linux has to offer with the Ubuntu Linux Bible. This complete and comprehensive guide introduces you to Ubuntu and shows you how to use it to its fullest, whether you're a typical desktop user or a system administrator. You'll learn to do everything from

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reading email to configuring wireless networks. You'll reap huge rewards from this book, regardless of how much prior experience you have with Ubuntu. Get started with Ubuntu Linux and see what's in the newest version (20.04) Learn how to read

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emails, surf the web, and create and publish documents Take on system administration tasks, like creating and managing users and adding new disks to the system Discover how to use Ubuntu Linux in an enterprise or personal environment Figure out how to

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set up Ubuntu Linux servers for the web, email, shared printing, and more Find out why Ubuntu Linux is the most popular Linux operating system in the world Securing, observing, and troubleshooting containerized workloads on Kubernetes can be

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daunting. It requires a range of considerations, from infrastructure choices and cluster configuration to deployment controls and runtime and network security. With this practical book, you'll learn how to adopt a holistic security and observability

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strategy for building and securing cloud native applications running on Kubernetes. Whether you're already working on cloud native applications or are in the process of migrating to its architecture, this guide introduces key security and observability concepts and

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best practices to help you unleash the power of cloud native applications. Authors Brendan Creane and Amit Gupta from Tigera take you through the full breadth of new cloud native approaches for establishing security and observability for

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applications running on Kubernetes. Learn why you need a security and observability strategy for cloud native applications and determine your scope of coverage Understand key concepts behind the book's security and observability

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approach Explore the technology choices available to support this strategy Discover how to share security responsibilities across multiple teams or roles Learn how to architect Kubernetes security and observability for multicloud and hybrid environments

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Cracking Containers with Docker and Kubernetes

Learn how to use Docker containers effectively to speed up the development process

Patterns and Paradigms for Scalable, Reliable Services

Practical solutions to container

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orchestration, 2nd Edition

Getting Started with Kubernetes

Deploying a Database Instance in an IBM Cloud Private Cluster on IBM Z

IBM Z

Mastering Docker Enterprise

To facilitate scalability and resilience, many

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organizations now run applications in cloud native environments using containers and orchestration. But how do you know if the deployment is secure? This practical

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book examines key underlying technologies to help developers, operators, and security professionals assess security risks and determine appropriate

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solutions. Author Liz Rice, Chief Open Source Officer at Isovalent, looks at how the building blocks commonly used in container-based systems are constructed in Linux.

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You'll understand what's happening when you deploy containers and learn how to assess potential security risks that could affect your deployments. If you run container

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applications with kubectl or docker and use Linux command-line tools such as ps and grep, you're ready to get started. Explore attack vectors that affect container deployments Dive

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*into the Linux constructs
that underpin containers
Examine measures for
hardening containers
Understand how
misconfigurations can
compromise container*

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isolation Learn best practices for building container images Identify container images that have known software vulnerabilities Leverage secure connections between

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containers Use security tooling to prevent attacks on your deployment The way developers design, build, and run software has changed significantly with the evolution of

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microservices and containers. These modern architectures use new primitives that require a different set of practices than most developers, tech leads, and architects are

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accustomed to. With this focused guide, Bilgin Ibryam and Roland Huß from Red Hat provide common reusable elements, patterns, principles, and practices for designing

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and implementing cloud-native applications on Kubernetes. Each pattern includes a description of the problem and a proposed solution with Kubernetes specifics. Many patterns

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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

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native patterns. You'll learn about the following pattern categories:

Foundational patterns cover the core principles and practices for building container-based cloud-

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*native applications.
Behavioral patterns
explore finer-grained
concepts for managing
various types of container
and platform interactions.
Structural patterns help*

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you organize containers within a pod, the atom of the Kubernetes platform. Configuration patterns provide insight into how application configurations can be handled in

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Kubernetes. Advanced patterns covers more advanced topics such as extending the platform with operators.

Covers 18.04, 18.10, 19.04, and 19.10 Ubuntu

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Unleashed 2019 Edition is filled with unique and advanced information for everyone who wants to make the most of the Ubuntu Linux operating system. This new edition has been

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thoroughly updated, including two new chapters, by a long-time Ubuntu community leader to reflect the exciting new Ubuntu 18.04 LTS release, with forthcoming online

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updates for 18.10, 19.04, and 19.10 when they are released. Linux writer Matthew Helmke covers all you need to know about Ubuntu 18.04 LTS installation,

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configuration, productivity, multimedia, development, system administration, server operations, networking, virtualization, security, DevOps, and more—including

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intermediate-to-advanced techniques you won't find in any other book. Helmke presents up-to-the-minute introductions to Ubuntu's key productivity and web development tools,

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programming languages, hardware support, and more. You'll find new or improved coverage of the Ubuntu desktop experience, common web servers and software stacks,

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containers like Docker and Kubernetes, as well as a wealth of systems administration information that is stable and valuable over many years. Configure and use the

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command line Automate
tasks and use shell
scripting Provide secure
remote access and
configure a secure VPN
Manage kernels and modules*

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*Administer file, print, email, proxy, LDAP, DNS, and HTTP servers (Apache, Nginx, or alternatives)
Learn about new options for managing large numbers of servers Work with*

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databases (both SQL and the newest NoSQL alternatives) Get started with virtualization and cloud deployment, including information about containers Learn the

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basics about popular programming languages including Python, PHP, Perl, and gain an introduction to new alternatives such as Go and Rust

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Networking and Kubernetes