

Kubernetes Manifest Template

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Cloud Native DevOps with Kubernetes John Arundel,Justin Domingus,2019-03-08 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

Learning Helm Matt Butcher,Matt Farina,Josh Dolitsky,2021-01-20 Get up to speed with Helm, the preeminent package manager for the Kubernetes container orchestration system. This practical guide shows you how to efficiently create, install, and manage the applications running inside your containers. Helm maintainers Matt Butcher, Matt Farina, and Josh Dolitsky explain how this package manager fits into the Kubernetes ecosystem and provide an inside look at Helm's design and best practices. More than 70% of the organizations that work with Kubernetes use Helm today. While the Helm community provides thousands of packages, or charts, to help you get started, this book walks developers and DevOps engineers through the process of creating custom charts to package applications. If you have a working understanding of Kubernetes, you're ready to go. Explore primary features including frequently used Helm commands Learn how to build and deploy Helm charts from scratch Use Helm to manage complexity and achieve repeatable deployments Package an application and its dependencies for easy installation Manage the entire lifecycle of applications on Kubernetes Explore ways to extend Helm to add features and functionality Learn features for testing, handling dependencies, and providing security

Kubernetes Cookbook Sébastien Goasguen,Michael Hausenblas,2018-02-14 If your organization is preparing to move toward a cloud-native computing architecture, this cookbook shows you how to successfully use Kubernetes, the de-facto

standard for automating the deployment, scaling, and management of containerized applications. With more than 80 proven recipes, developers, system administrators, and architects will quickly learn how to get started with Kubernetes and understand its powerful API. Through the course of the book, authors Sébastien Goasguen and Michael Hausenblas provide several detailed solutions for installing, interacting with, and using Kubernetes in development and production. You'll learn how to adapt the system to your particular needs and become familiar with the wider Kubernetes ecosystem. Each standalone chapter features recipes written in O'Reilly's popular problem-solution-discussion format. Recipes in this cookbook focus on: Creating a Kubernetes cluster Using the Kubernetes command-line interface Managing fundamental workload types Working with services Exploring the Kubernetes API Managing stateful and non-cloud native apps Working with volumes and configuration data Cluster-level and application-level scaling Securing your applications Monitoring and logging Maintenance and troubleshooting.

Learning Helm Matt Butcher, Matt Farina, Josh Dolitsky, 2021-01-20 Get up to speed with Helm, the preeminent package manager for the Kubernetes container orchestration system. This practical guide shows you how to efficiently create, install, and manage the applications running inside your containers. Helm maintainers Matt Butcher, Matt Farina, and Josh Dolitsky explain how this package manager fits into the Kubernetes ecosystem and provide an inside look at Helm's design and best practices. More than 70% of the organizations that work with Kubernetes use Helm today. While the Helm community provides thousands of packages, or charts, to help you get started, this book walks developers and DevOps engineers through the process of creating custom charts to package applications. If you have a working understanding of Kubernetes, you're ready to go. Explore primary features including frequently used Helm commands Learn how to build and deploy Helm charts from scratch Use Helm to manage complexity and achieve repeatable deployments Package an application and its dependencies for easy installation Manage the entire lifecycle of applications on Kubernetes Explore ways to extend Helm to add features and functionality Learn features for testing, handling dependencies, and providing security

DevSecOps for Azure David Okeyode, Joylynn Kirui, 2024-08-28 Gain holistic insights and practical expertise in embedding security within the DevOps pipeline, specifically tailored for Azure cloud environments Key Features Learn how to integrate security into Azure DevOps workflows for cloud infrastructure Find out how to integrate secure practices across all phases of the Azure DevOps workflow, from planning to monitoring Harden the entire DevOps workflow, from planning and coding to source control, CI, and cloud workload deployment Purchase of the print or Kindle book includes a free PDF eBook Book Description Businesses must prioritize security, especially when working in the constantly evolving Azure cloud. However, many organizations struggle to maintain security and compliance. Attackers are increasingly targeting software development processes, making software supply chain security crucial. This includes source control systems, build systems, CI/CD platforms, and various artifacts. With the help of this book, you'll be able to enhance security and compliance in Azure

software development processes. Starting with an overview of DevOps and its relationship with Agile methodologies and cloud computing, you'll gain a solid foundation in DevSecOps principles. The book then delves into the security challenges specific to DevOps workflows and how to address them effectively. You'll learn how to implement security measures in the planning phase, including threat modeling and secure coding practices. You'll also explore pre-commit security controls, source control security, and the integration of various security tools in the build and test phases. The book covers crucial aspects of securing the release and deploy phases, focusing on artifact integrity, infrastructure as code security, and runtime protection. By the end of this book, you'll have the knowledge and skills to implement a secure code-to-cloud process for the Azure cloud.

What you will learn

- Understand the relationship between Agile, DevOps, and the cloud
- Secure the use of containers in a CI/CD workflow
- Implement a continuous and automated threat modeling process
- Secure development toolchains such as GitHub Codespaces, Microsoft Dev Box, and GitHub
- Integrate continuous security throughout the code development workflow, pre-source and post-source control contribution
- Integrate SCA, SAST, and secret scanning into the build process to ensure code safety
- Implement security in release and deploy phases for artifact and environment compliance

Who this book is for

This book is for security professionals and developers transitioning to a public cloud environment or moving towards a DevSecOps paradigm. It's also designed for DevOps engineers, or anyone looking to master the implementation of DevSecOps in a practical manner. Individuals who want to understand how to integrate security checks, testing, and other controls into Azure cloud continuous delivery pipelines will also find this book invaluable. Prior knowledge of DevOps principles and practices, as well as an understanding of security fundamentals will be beneficial.

Kubernetes in Action Marko Luksa, 2017-12-14

Summary

Kubernetes in Action is a comprehensive guide to effectively developing and running applications in a Kubernetes environment. Before diving into Kubernetes, the book gives an overview of container technologies like Docker, including how to build containers, so that even readers who haven't used these technologies before can get up and running. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications.

About the Technology

Kubernetes is Greek for helmsman, your guide through unknown waters. The Kubernetes container orchestration system safely manages the structure and flow of a distributed application, organizing containers and services for maximum efficiency. Kubernetes serves as an operating system for your clusters, eliminating the need to factor the underlying network and server infrastructure into your designs.

About the Book

Kubernetes in Action teaches you to use Kubernetes to deploy container-based distributed applications. You'll start with an overview of Docker and Kubernetes before building your first Kubernetes cluster. You'll gradually expand your initial application, adding features and deepening your knowledge of Kubernetes architecture and operation. As you navigate this comprehensive guide, you'll explore high-value topics like monitoring, tuning, and scaling.

What's Inside

Kubernetes' internals

- Deploying containers across a cluster
- Securing clusters
- Updating applications with zero downtime
- About the

Reader Written for intermediate software developers with little or no familiarity with Docker or container orchestration systems. About the Author Marko Luksa is an engineer at Red Hat working on Kubernetes and OpenShift. Table of Contents PART 1 - OVERVIEW Introducing Kubernetes First steps with Docker and Kubernetes PART 2 - CORE CONCEPTS Pods: running containers in Kubernetes Replication and other controllers: deploying managed pods Services: enabling clients to discover and talk to pods Volumes: attaching disk storage to containers ConfigMaps and Secrets: configuring applications Accessing pod metadata and other resources from applications Deployments: updating applications declaratively StatefulSets: deploying replicated stateful applications PART 3 - BEYOND THE BASICS Understanding Kubernetes internals Securing the Kubernetes API server Securing cluster nodes and the network Managing pods' computational resources Automatic scaling of pods and cluster nodes Advanced scheduling Best practices for developing apps Extending Kubernetes

Mastering GitHub Actions Eric Chapman, 2024-03-22 Explore the full spectrum of GitHub Actions to unlock your team's potential and become a pro in no time Key Features Master GitHub events to foster a self-service mindset Elevate your GitHub Actions knowledge to a whole new level through real-world examples Learn how to integrate with popular cloud-based products within your workflows Purchase of the print or Kindle book includes a free PDF eBook Book Description Navigating GitHub Actions often leaves developers grappling with inefficiencies and collaboration bottlenecks. Mastering GitHub Actions offers solutions to these challenges, ensuring smoother software development. With 16 extensive chapters, this book simplifies GitHub Actions, walking you through its vast capabilities, from team and enterprise features to organization defaults, self-hosted runners, and monitoring tools. You'll learn how to craft reusable workflows, design bespoke templates, publish actions, incorporate external services, and introduce enhanced security measures. Through hands-on examples, you'll gain best-practice insights for team-based GitHub Actions workflows and discover strategies for maximizing organization accounts. Whether you're a software engineer or a DevOps guru, by the end of this book, you'll be adept at amplifying productivity and leveraging automation's might to refine your development process. What you will learn Explore GitHub Actions' features for team and business settings Create reusable workflows, templates, and standardized processes to reduce overhead Get to grips with CI/CD integrations, code quality tools, and communication Understand self-hosted runners for greater control of resources and settings Discover tools to optimize GitHub Actions and manage resources efficiently Work through examples to enhance projects, teamwork, and productivity Who this book is for This book is for developers with a foundation in CI/CD, code quality tools, and team communication keen on exploring GitHub Actions. It's ideal for DevOps engineers, system administrators, software developers, IT specialists, automation aficionados, and university students focused on software integration and deployment. Those familiar with GitHub's ecosystem will find this content insightful.

Kubernetes for Full-Stack Developers ,2020-02-04 This book is designed to help newcomers and experienced users alike

learn about Kubernetes. Its chapters are designed to introduce core Kubernetes concepts and to build on them to a level where running an application on a production cluster is a familiar, repeatable, and automated process. From there, more advanced topics are introduced, like how to manage a Kubernetes cluster itself.

Architecture Modernization Nick Tune, Jean-Georges Perrin, 2024-02-20 Proven techniques and principles for modernizing legacy systems into new architectures that deliver serious competitive advantage. For a business to thrive, it needs a modern software architecture that is aligned with its corporate architecture. This book presents concrete practices that sync software, product, strategy, team dynamics, and work practices. You'll evolve your technical and social architecture together, reducing needless dependencies and achieving faster flow of innovation across your organization. In *Architecture Modernization: Socio-technical alignment of software, strategy, and structure* you'll learn how to: Identify strategic ambitions and challenges using listening and mapping tours Visualize your business landscape and crucial capabilities with Wardley Mapping Create a product taxonomy as a framework for your architecture Run big picture EventStorming workshops to map business domains Apply Team Topologies patterns to identify and refine value streams Design loosely coupled, domain-aligned software architectures Build internal developer platforms for rapid, reliable evolution Implement data mesh principles and tools to revolutionize data engineering Deliver compelling modernization roadmaps focused on continuous value *Architecture Modernization: Socio-technical alignment of software, strategy, and structure* shows you how to turn the practice of architecting systems into a transformative process for your entire company. Chapter-by-chapter, you'll identify the reasons and benefits of modernization, design an architecture that works for your business, and then implement your new approach in a progressive and sustainable manner. Every technique is illustrated with insightful industry examples and an interactive Miro board that lets you dig deeper. Forewords by Matthew Skelton and Xin Yao. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology The decisions you make about your software are inherently connected to the decisions you make about your business. Why not turn the mundane task of modernizing legacy systems into a transformative process for your entire company? This book shows you how! It reveals a socio-technical approach to align your software and products with organizational dynamics and ways of working. About the book *Architecture Modernization: Socio-technical alignment of software, strategy, and structure* presents a clear path for upgrading your entire organization when you re-imagine your software. In it, you'll learn to combine practices like Domain-Driven Design, Event Storming, and Wardley Mapping to discover user needs, design optimal architecture, and avoid falling back into old habits. Provocative examples from Danske, Salesforce, the UK Government, and others show the real-world result of each approach, identifying techniques you can apply effectively in your own business. What's inside Uncover cross-org challenges and opportunities A product-centric approach to architecture Envision architecture as a portfolio to prioritize investment About the reader For CTOs, tech leads, and principal engineers who

decide on architecture and organization design. About the author Nick Tune helps organizations modernize their architectures through empowered product teams and continuous delivery. Jean-Georges Perrin builds innovative and modern data platforms. The technical editor on this book was Kamil Nicieja. Table of Contents 1 What is architecture modernization? 2 Preparing for the journey 3 Business objectives 4 Listening and mapping tours 5 Wardley Mapping 6 Product taxonomy 7 Big picture EventStorming 8 Product and domain modernization 9 Identifying domains and subdomains 10 Strategic IT portfolio 11 Team Topologies 12 Loosely coupled software architecture 13 Internal developer platforms 14 Data mesh revolutionizing data engineering 15 Architecture modernization enabling teams 16 Strategy and roadmaps 17 Learning and upskilling

Argo CD in Practice Liviu Costea, Spiros Economakis, Alexander Matyushentsev, 2022-11-18 Build CD pipelines following GitOps principles like declarative and immutable changes stored in version control, all continuously reconciled by Argo CD, and minimize the failure of deployments. Purchase of the print or Kindle book includes a free eBook in the PDF format. Key Features Discover how to apply GitOps principles to build real-world CD pipelines Understand Argo CD components and how they work together to reconcile cloud native applications Learn to run Argo CD in production with declarative config changes, security, observability, disaster recovery, and more Book Description GitOps follows the practices of infrastructure as code (IaC), allowing developers to use their day-to-day tools and practices such as source control and pull requests to manage apps. With this book, you'll understand how to apply GitOps bootstrap clusters in a repeatable manner, build CD pipelines for cloud-native apps running on Kubernetes, and minimize the failure of deployments. You'll start by installing Argo CD in a cluster, setting up user access using single sign-on, performing declarative configuration changes, and enabling observability and disaster recovery. Once you have a production-ready setup of Argo CD, you'll explore how CD pipelines can be built using the pull method, how that increases security, and how the reconciliation process occurs when multi-cluster scenarios are involved. Next, you'll go through the common troubleshooting scenarios, from installation to day-to-day operations, and learn how performance can be improved. Later, you'll explore the tools that can be used to parse the YAML you write for deploying apps. You can then check if it is valid for new versions of Kubernetes, verify if it has any security or compliance misconfigurations, and that it follows the best practices for cloud-native apps running on Kubernetes. By the end of this book, you'll be able to build a real-world CD pipeline using Argo CD. What you will learn Understand GitOps principles and how they relate to IaC Discover how Argo CD lays the foundation for reconciling Git state with the cluster state Run Argo CD in production with an emphasis on reliability and troubleshooting Bootstrap Kubernetes clusters with essential utilities following the GitOps approach Set up a CD pipeline and minimize the failure of deployments Explore ways to verify and validate the YAML you put together when working with Kubernetes Understand the democratization of GitOps and how the GitOps engine will enable its further adoption Who this book is for If you're a software developer, DevOps engineer, or SRE who is

responsible for building CD pipelines for projects running on Kubernetes and wants to advance in your career, this book is for you. Basic knowledge of Kubernetes, Helm, or Kustomize and CD pipelines will help you to get the most out of this book.

Terraform Cookbook Kerim Satirli, Taylor Dolezal, 2024-10-03 Cloud services and SaaS software permeate every company's IT landscape, requiring a shift from manually provisioned services to a more structured approach, with codification at its core. Terraform provides tools to manage the lifecycle of your IT landscape across thousands of different cloud providers and SaaS platforms. By defining your infrastructure as code you can safely and predictably make changes, modularize crucial building blocks, and create reusable service components. Each recipe in this cookbook addresses a specific problem and prefaces the solution with detailed insights into the how and why. If you're just starting with Terraform and codified infrastructure, this book will help you create a solid foundation, on which you can build for years to come. If you're an advanced user, this guide will help you reaffirm your knowledge and take it to the next level, as you challenge yourself with more complex infrastructure, spread across multiple providers. Recipes include: Strategies on how to use Terraform with Version Control Systems Validation and testing patterns for Terraform-managed infrastructure Methods for importing pre-existing resources Transforming infrastructure services into reusable components Integrating Terraform with other HashiCorp tools Deploying Containerized Workloads

Certified Argo Project Associate (CAPA) QuickTechie | A career growth machine., 2025-01-19 About the Certified Argo Project Associate (CAPA) Certification The Certified Argo Project Associate (CAPA) certification, as detailed on QuickTechie.com, is designed to validate an individual's proficiency in navigating the Argo Project ecosystem. This associate-level certification is ideal for engineers, data scientists, and anyone eager to showcase their understanding of the various Argo tools and their applications. What the CAPA Demonstrates: A CAPA certification, as explained by QuickTechie.com, confirms a candidate's grasp of the fundamental concepts surrounding each Argo tool. It goes beyond basic knowledge by ensuring that certified individuals understand when to use specific tools, why they are appropriate for a given scenario, and how these tools can be effectively integrated. The certification signifies a solid understanding of the Argo Project ecosystem, including its terminology and best practices related to DevOps, GitOps, and Platform Engineering, as noted by QuickTechie.com. Key Areas of Knowledge: The CAPA exam, as indicated by QuickTechie.com, evaluates a candidate's competency across the following domains: Argo Workflows (36%): This section focuses on the fundamentals of Argo Workflows, including generating and consuming artifacts, working with workflow templates and the workflow specification, using Directed-Acyclic Graphs (DAGs), and running data processing jobs. A certified professional, as referenced by QuickTechie.com, should be able to leverage Argo Workflows effectively. Argo CD (34%): This domain, mentioned by QuickTechie.com, covers Argo CD fundamentals, synchronizing applications, using Argo CD applications, configuring Argo CD with Helm and Kustomize, and identifying common reconciliation patterns. The exam assesses the candidate's ability to

manage application deployment and synchronization with Argo CD, per QuickTechie.com. Argo Rollouts (18%): The CAPA certification, as per the content on QuickTechie.com, also tests understanding of Argo Rollouts, including fundamentals, employing common progressive rollout strategies, and describing analysis templates and analysis runs. The candidate, according to QuickTechie.com, should be able to manage application updates efficiently using Argo Rollouts. Argo Events (12%): This area, as detailed on QuickTechie.com, requires understanding of Argo Events fundamentals, as well as the components and architecture of the system. The exam aims to confirm a candidate's knowledge of event-driven automation within the Argo ecosystem, as referred by QuickTechie.com. Exam Format and Resources: The CAPA exam, as listed on QuickTechie.com, is an online, proctored, multiple-choice assessment. QuickTechie.com provides links to resources such as the Linux Foundation Global Certification & Confidentiality Agreement, Candidate Handbook, Frequently Asked Questions, and Important Instructions. Importantly, as highlighted on QuickTechie.com, there are no prerequisites for taking this exam.

Microservices in .NET, Second Edition Christian Gammelgaard, 2021-11-23 *Microservices in .NET, Second Edition* teaches you to build and deploy microservices using ASP.NET and Azure services. Summary In *Microservices in .NET, Second Edition* you will learn how to: Build scalable microservices that are reliable in production Optimize microservices for continuous delivery Design event-based collaboration between microservices Deploy microservices to Kubernetes Set up Kubernetes in Azure *Microservices in .NET, Second Edition* is a comprehensive guide to building microservice applications using the .NET stack. After a crystal-clear introduction to the microservices architectural style, it teaches you practical microservices development skills using ASP.NET. This second edition of the bestselling original has been revised with up-to-date tools for the .NET ecosystem, and more new coverage of scoping microservices and deploying to Kubernetes. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Microservice architectures connect independent components that must work together as a system. Integrating new technologies like Docker and Kubernetes with Microsoft's familiar ASP.NET framework and Azure cloud platform enables .NET developers to create and manage microservices efficiently. About the book *Microservices in .NET, Second Edition* teaches you to build and deploy microservices using ASP.NET and Azure services. It lays out microservice architecture simply, and then guides you through several real-world projects, such as building an ecommerce shopping cart. In this fully revised edition, you'll learn about scoping microservices, deploying to Kubernetes, and operations concerns like monitoring, logging, and security. What's inside Optimize microservices for continuous delivery Design event-based collaboration between microservices Deploy microservices to Kubernetes Set up Kubernetes in Azure About the reader For C# developers. No experience with microservices required. About the author Christian Horsdal is an independent consultant with more than 20 years of experience building projects from large-scale microservice systems to tiny embedded systems. Table of Contents PART 1 GETTING STARTED WITH MICROSERVICES 1 Microservices at a glance 2 A basic shopping cart microservice 3

Deploying a microservice to Kubernetes PART 2 BUILDING MICROSERVICES 4 Identifying and scoping microservices 5 Microservice collaboration 6 Data ownership and data storage 7 Designing for robustness 8 Writing tests for microservices PART 3 HANDLING CROSS-CUTTING CONCERNS: BUILDING A REUSABLE MICROSERVICE PLATFORM 9 Cross-cutting concerns: Monitoring and logging 10 Securing microservice-to-microservice communication 11 Building a reusable microservice platform PART 4 BUILDING APPLICATIONS 12 Creating applications over microservices

Microservices: Novice To Ninja Rob Botwright, 2019-01-01 [MICROSERVICES: NOVICE TO NINJA](#) [Are you ready to level up your microservices game? Dive into the ultimate guide with our comprehensive book bundle, Microservices: Novice to Ninja.](#) [BOOK 1 - MICROSERVICES 101:](#) [Embark on your journey into the world of distributed systems with our beginner's guide. Learn the fundamentals of microservices architecture, from decoupling to scalability. Perfect for those new to the concept!](#) [BOOK 2 - ARCHITECTING MICROSERVICES:](#) [Take your skills to the next level with strategies for designing scalable and resilient systems. Discover essential design patterns and principles like bounded contexts and aggregates. Build systems that can adapt and evolve effortlessly!](#) [BOOK 3 - MASTERING MICROSERVICES:](#) [Ready for the big leagues? Learn advanced techniques for optimizing performance and security. Dive into performance tuning, security best practices, and more. Become a master of microservices optimization!](#) [BOOK 4 - MICROSERVICES MASTERY:](#) [Unlock expert insights into deployment, monitoring, and maintenance. Automate deployment pipelines, monitor system health, and troubleshoot issues like a pro. Ensure your microservices are always running smoothly!](#) [With Microservices: Novice to Ninja, you'll have everything you need to build, design, and deploy distributed services like a true expert. Don't miss out on this essential book bundle for mastering microservices architecture!](#)

Kubernetes for Developers Joseph Heck, 2018-04-06 A developer's field-guide to designing scalable services using Kubernetes Key Features Develop and run your software using containers within a Kubernetes environment Get hands-on experience of using Kubernetes with DevOps concepts such as continuous integration, benchmark testing, monitoring, and so on Pragmatic example-based approach showing how to use Kubernetes in the development process Book Description Kubernetes is documented and typically approached from the perspective of someone running software that has already been built. Kubernetes may also be used to enhance the development process, enabling more consistent testing and analysis of code to help developers verify not only its correctness, but also its efficiency. This book introduces key Kubernetes concepts, coupled with examples of how to deploy and use them with a bit of Node.js and Python example code, so that you can quickly replicate and use that knowledge. You will begin by setting up Kubernetes to help you develop and package your code. We walk you through the setup and installation process before working with Kubernetes in the development environment. We then delve into concepts such as automating your build process, autonomic computing, debugging, and integration testing. This book covers all the concepts required for a developer to work with Kubernetes. By the end of this book, you will be in a

position to use Kubernetes in development ecosystems. What you will learn Build your software into containers Deploy and debug software running in containers within Kubernetes Declare and add configuration through Kubernetes Define how your application fits together, using internal and external services Add feedback to your code to help Kubernetes manage your services Monitor and measure your services through integration testing and in production deployments Who this book is for If you are a full-stack or back-end software developers interested, curious, or being asked to test as well as run the code you're creating, you can leverage Kubernetes to make that process simpler and consistent regardless of where you deploy. If you're looking for developer focused examples in NodeJS and Python for how to build, test, deploy, and run your code with Kubernetes, this is perfect for you.

Docker Deep Dive Aditya Pratap Bhuyan,2024-10-03 Docker Deep Dive: Learn, Build, and Scale with Containers is a comprehensive guide that takes readers on a journey from understanding the fundamentals of Docker to mastering advanced containerization and orchestration techniques. Whether you are a beginner looking to grasp the basics or an experienced developer seeking to enhance your skills, this book offers something for everyone. Starting with Docker's core concepts, readers will learn to build, manage, and deploy containerized applications. The book dives into topics such as creating Dockerfiles, managing containerized environments with Docker Compose, handling networking and persistent data storage, and integrating Docker with continuous integration/continuous delivery (CI/CD) pipelines. As the chapters progress, the book delves into advanced topics like container orchestration with Docker Swarm and Kubernetes, security best practices, performance tuning, and deploying Docker in cloud environments. Special emphasis is placed on cutting-edge networking concepts and service meshes using tools like Istio, helping readers to efficiently manage communication between microservices. This book equips readers with practical knowledge and hands-on examples, enabling them to build scalable, secure, and reliable containerized applications. With insights into the future of containerization and trends in the evolving ecosystem, Docker Deep Dive is the ultimate resource for developers, DevOps engineers, and IT professionals looking to master Docker and its powerful features. By the end of this book, readers will have the skills and confidence to independently manage Docker in production environments.

Python for DevOps Noah Gift,Kennedy Behrman,Alfredo Deza,Grig Gheorghiu,2019-12-12 Much has changed in technology over the past decade. Data is hot, the cloud is ubiquitous, and many organizations need some form of automation. Throughout these transformations, Python has become one of the most popular languages in the world. This practical resource shows you how to use Python for everyday Linux systems administration tasks with today's most useful DevOps tools, including Docker, Kubernetes, and Terraform. Learning how to interact and automate with Linux is essential for millions of professionals. Python makes it much easier. With this book, you'll learn how to develop software and solve problems using containers, as well as how to monitor, instrument, load-test, and operationalize your software. Looking for

effective ways to get stuff done in Python? This is your guide. Python foundations, including a brief introduction to the language How to automate text, write command-line tools, and automate the filesystem Linux utilities, package management, build systems, monitoring and instrumentation, and automated testing Cloud computing, infrastructure as code, Kubernetes, and serverless Machine learning operations and data engineering from a DevOps perspective Building, deploying, and operationalizing a machine learning project

OpenStack for Architects Ben Silverman,Michael Solberg,2018-05-31 Implement successful private clouds with OpenStack Key Features Gain hands-on experience in designing a private cloud for all infrastructures Create a robust virtual environment for your organization Design, implement and deploy an OpenStack-based cloud based on the Queens release Book Description Over the past six years, hundreds of organizations have successfully implemented Infrastructure as a Service (IaaS) platforms based on OpenStack. The huge amount of investment from these organizations, including industry giants such as IBM and HP, as well as open source leaders, such as Red Hat, Canonical, and SUSE, has led analysts to label OpenStack as the most important open source technology since the Linux operating system. Due to its ambitious scope, OpenStack is a complex and fast-evolving open source project that requires a diverse skill set to design and implement it. OpenStack for Architects leads you through the major decision points that you'll face while architecting an OpenStack private cloud for your organization. This book will address the recent changes made in the latest OpenStack release i.e Queens, and will also deal with advanced concepts such as containerization, NVF, and security. At each point, the authors offer you advice based on the experience they've gained from designing and leading successful OpenStack projects in a wide range of industries. Each chapter also includes lab material that gives you a chance to install and configure the technologies used to build production-quality OpenStack clouds. Most importantly, the book focuses on ensuring that your OpenStack project meets the needs of your organization, which will guarantee a successful rollout. What you will learn Learn the overall structure of an OpenStack deployment Craft an OpenStack deployment process which fits within your organization Apply Agile Development methodologies to engineer and operate OpenStack clouds Build a product roadmap for Infrastructure as a Service based on OpenStack Make use of containers to increase the manageability and resiliency of applications running in and on OpenStack. Use enterprise security guidelines for your OpenStack deployment Who this book is for OpenStack for Architects is for Cloud architects who are responsible to design and implement a private cloud with OpenStack. System engineers and enterprise architects will also find this book useful. Basic understanding of core OpenStack services, as well as some working experience of concepts, is recommended.

Istio: Up and Running Lee Calcote,Zack Butcher,2019-09-27 You did it. You successfully transformed your application into a microservices architecture. But now that you're running services across different environments—public to public, private to public, virtual machine to container—your cloud native software is beginning to encounter reliability issues. How

do you stay on top of this ever-increasing complexity? With the Istio service mesh, you'll be able to manage traffic, control access, monitor, report, get telemetry data, manage quota, trace, and more with resilience across your microservice. In this book, Lee Calcote and Zack Butcher explain why your services need a service mesh and demonstrate step-by-step how Istio fits into the life cycle of a distributed application. You'll learn about the tools and APIs for enabling and managing many of the features found in Istio. Explore the observability challenges Istio addresses Use request routing, traffic shifting, fault injection, and other features essential to running a solid service mesh Generate and collect telemetry information Try different deployment patterns, including A/B, blue/green, and canary Get examples of how to develop and deploy real-world applications with Istio support

Microservice APIs Jose Haro Peralta, 2023-01-10 Strategies, best practices, and patterns that will help you design resilient microservices architecture and streamline your API integrations. In *Microservice APIs*, you'll discover: Service decomposition strategies for microservices Documentation-driven development for APIs Best practices for designing REST and GraphQL APIs Documenting REST APIs with the OpenAPI specification (formerly Swagger) Documenting GraphQL APIs using the Schema Definition Language Building microservices APIs with Flask, FastAPI, Ariadne, and other frameworks Service implementation patterns for loosely coupled services Property-based testing to validate your APIs, and using automated API testing frameworks like schemathesis and Dredd Adding authentication and authorization to your microservice APIs using OAuth and OpenID Connect (OIDC) Deploying and operating microservices in AWS with Docker and Kubernetes *Microservice APIs* teaches you practical techniques for designing robust microservices with APIs that are easy to understand, consume, and maintain. You'll benefit from author José Haro Peralta's years of experience experimenting with microservices architecture, dodging pitfalls and learning from mistakes he's made. Inside you'll find strategies for delivering successful API integrations, implementing services with clear boundaries, managing cloud deployments, and handling microservices security. Written in a framework-agnostic manner, its universal principles can easily be applied to your favorite stack and toolset. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Clean, clear APIs are essential to the success of microservice applications. Well-designed APIs enable reliable integrations between services and help simplify maintenance, scaling, and redesigns. This book teaches you the patterns, protocols, and strategies you need to design, build, and deploy effective REST and GraphQL microservices APIs. About the book *Microservice APIs* gathers proven techniques for creating and building easy-to-consume APIs for microservices applications. Rich with proven advice and Python-based examples, this practical book focuses on implementation over philosophy. You'll learn how to build robust microservice APIs, test and protect them, and deploy them to the cloud following principles and patterns that work in any language. What's inside Service decomposition strategies for microservices Best practices for designing and building REST and GraphQL APIs Service implementation patterns for loosely

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