Prometheus Alram

Simon Riggs,Gianni Ciolli

Hands-On Infrastructure Monitoring with Prometheus Joel Bastos,Pedro Araújo,2019-05-31 Build Prometheus ecosystems with metric-centric visualization, alerting, and querying Key FeaturesIntegrate Prometheus with Alertmanager and Grafana for building a complete monitoring systemExplore PromQL, Prometheus' functional query language, with easy-to-follow examplesLearn how to deploy Prometheus components using Kubernetes and traditional instancesBook Description Prometheus is an open source monitoring system. It provides a modern time series database, a robust query language, several metric visualization possibilities, and a reliable alerting solution for traditional and cloud-native infrastructure. This book covers the fundamental concepts of monitoring and explores Prometheus architecture, its data model, and how metric aggregation works. Multiple test environments are included to help explore different configuration scenarios, such as the use of various exporters and integrations. You'll delve into PromQL, supported by several examples, and then apply that knowledge to alerting and recording rules, as well as how to test them. After that, alert routing with Alertmanager and creating visualizations with Grafana is thoroughly covered. In addition, this book covers several service discovery mechanisms and even provides an example of how to create your own. Finally, you'll learn about Prometheus federation, cross-sharding aggregation, and also long-term storage with the help of Thanos. By the end of this book, you'll be able to implement and scale Prometheus as a full monitoring system on-premises, in cloud environments, in standalone instances, or using container orchestration with Kubernetes. What you will learnGrasp monitoring fundamentals and implement them using PrometheusDiscover how to extract metrics from common infrastructure servicesFind out how to take full advantage of PromQLDesign a highly available, resilient, and scalable Prometheus stackExplore the power of Kubernetes Prometheus OperatorUnderstand concepts such as federation and cross-shard aggregationUnlock seamless global views and long-term retention in cloud-native apps with ThanosWho this book is for If you're a software developer, cloud administrator, site reliability engineer, DevOps enthusiast or system admin looking to set up a fail-safe monitoring and alerting system for sustaining infrastructure security and performance, this book is for you. Basic networking and infrastructure monitoring knowledge will help you understand the concepts covered in this book.

AI and Machine Learning for Network and Security Management Yulei Wu,Jingguo Ge,Tong Li,2022-10-28 AI AND MACHINE LEARNING FOR NETWORK AND SECURITY MANAGEMENT Extensive Resource for Understanding Key Tasks of Network and Security Management AI and Machine Learning for Network and Security Management covers a range of key topics of network automation for network and security management, including resource allocation and scheduling, network planning and routing, encrypted traffic classification, anomaly detection, and security operations. In addition, the authors introduce their large-scale intelligent network management and operation system and elaborate on how the aforementioned areas can be integrated into this system, plus how the network service can benefit. Sample ideas covered in this thought-provoking work include: How cognitive means, e.g., knowledge transfer, can help with network and security management How different advanced AI and machine learning techniques can be useful and helpful to facilitate network automation How the introduced techniques can be applied to many other related network and security management tasks Network engineers, content service providers, and cybersecurity service providers can use AI and Machine Learning for Network and Security Management to make better and more informed decisions in their areas of specialization. Students in a variety of related study programs will also derive value from the work by gaining a base understanding of historical foundational knowledge and seeing the key recent developments that have been made in the field.

DevOps for the Desperate Bradley Smith,2022-07-12 DevOps for the Desperate is a hands-on, no-nonsense guide for those who land in a DevOps environment and need to get up and running quickly. This book introduces fundamental concepts software developers need to know to flourish in a modern DevOps environment including infrastructure as code, configuration management, security, containerization and orchestration, monitoring and alerting, and troubleshooting. Readers will follow along with hands-on examples to learn how to tackle common DevOps tasks. The book begins with an exploration of DevOps concepts using Vagrant and Ansible to build systems with repeatable and predictable states, including configuring a host with user-based security. Next up is a crash course on containerization, orchestration, and delivery using Docker, Kubernetes, and a CI/CDpipeline. The book concludes with a primer in monitoring and alerting with tips for troubleshootingcommon host and application issues. You'll learn how to: Use Ansible to manage users and groups, and enforce complex passwords Create a security policy for administrative permissions, and automate a host-based firewall Get started with Docker to containerize applications, use Kubernetes for orchestration, and deploycode using a CI/CD pipeline Build a monitoring stack, investigate common metric patterns, and trigger alerts Troubleshoot and analyze common issues and errors found on hosts

Mastering Prometheus William Hegedus,2024-04-19 Learn how to effectively implement, manage, and optimize Prometheus for monitoring your systems Key Features Achieve high availability with Prometheus by using Thanos Integrate Prometheus into your broader observability stack with OpenTelemetry Tweak, tune, and debug Prometheus to reliably scale without limits Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionWith an increased focus on observability and reliability, establishing a scalable and reliable monitoring environment is more important than ever. Over the last decade, Prometheus has emerged as the leading open-source, time-series based monitoring software catering to this demand. This book is your guide to scaling, operating, and extending Prometheus from small on-premises workloads to multi-cloud globally distributed workloads and everything in between. Starting with an introduction to Prometheus and its role in observability, the book provides a walkthrough of its deployment. You'll explore Prometheus's query language and TSDB data model, followed by dynamic service discovery for monitoring targets and refining alerting through custom templates and formatting. The book then demonstrates horizontal scaling of Prometheus via sharding and federation, while equipping you with debugging techniques and strategies to fine-tune data ingestion. Advancing through the chapters, you'll manage Prometheus at scale through CI validations and templating with Jsonnet, and integrate Prometheus with other projects such as OpenTelemetry, Thanos, VictoriaMetrics, and Mimir. By the end of this book, you'll have practical knowledge of Prometheus and its ecosystem, which will help you discern when, why, and how to scale it to meet your ever-growing needs.What you will learn Deploy Prometheus and Node Exporter to public clouds and Kubernetes Gain in-depth knowledge of how Prometheus's underlying code works Build your own custom service-discovery providers for Prometheus Debug Prometheus performance issues to identify cardinality issues in your environment Use VictoriaMetrics and/or Grafana Mimir for remote storage of Prometheus data Define and implement SLO-based alerting Who this book is for The book is for site reliability engineers (SREs), developers, and platform engineers involved in the monitoring and observability of their team or company's systems. A background in Prometheus is assumed, so the book dedicates minimal time to the basics of getting Prometheus up and running. Whether you aim to expand monitoring capabilities, streamline configuration management, or enhance integration with existing tools, this book will help you maximize the potential of your Prometheus monitoring stack.

Hands-On Software Engineering with Golang Achilleas Anagnostopoulos,2020-01-24 Explore software engineering methodologies, techniques, and best practices in Go programming to build easy-to-maintain software that can effortlessly scale on demand Key FeaturesApply best practices to produce lean, testable, and maintainable Go code to avoid accumulating technical debtExplore Go's built-in support for concurrency and message passing to build high-performance applicationsScale your Go programs across machines and manage their life cycle using KubernetesBook Description Over the last few years, Go has become one of the favorite languages for building scalable and distributed systems. Its opinionated design and built-in concurrency features make it easy for engineers to author code that efficiently utilizes all available CPU cores. This Golang book distills industry best practices for writing lean Go code that is easy to test and maintain, and helps you to explore its practical implementation by creating a multi-tier application called Links 'R' Us from scratch. You'll be guided through all the steps involved in designing, implementing, testing, deploying, and scaling an application. Starting with a monolithic architecture, you'll iteratively transform the project into a service-oriented architecture (SOA) that supports the efficient out-of-core processing of large link graphs. You'll learn about various cutting-edge and advanced software engineering techniques such as building extensible data processing pipelines, designing APIs using gRPC, and running distributed graph processing algorithms at scale. Finally, you'll learn how to compile and package your Go services using Docker and

automate their deployment to a Kubernetes cluster. By the end of this book, you'll know how to think like a professional software developer or engineer and write lean and efficient Go code. What you will learnUnderstand different stages of the software development life cycle and the role of a software engineerCreate APIs using gRPC and leverage the middleware offered by the gRPC ecosystemDiscover various approaches to managing package dependencies for your projectsBuild an end-to-end project from scratch and explore different strategies for scaling itDevelop a graph processing system and extend it to run in a distributed mannerDeploy Go services on Kubernetes and monitor their health using PrometheusWho this book is for This Golang programming book is for developers and software engineers looking to use Go to design and build scalable distributed systems effectively. Knowledge of Go programming and basic networking principles is required.

PostgreSQL 16 Administration Cookbook Gianni Ciolli,Boriss Mejías,Jimmy Angelakos,Vibhor Kumar,Simon Riggs,2023-12-04 Written by a team of well-known PostgreSQL experts, this new edition will cover all the latest updates of PostgreSQL 16 including 12+ new and improved recipes on logging, monitoring, security and high-performance Purchase of the print or Kindle book includes a free PDF eBook Key Features Skill-up as a database administrator by achieving improved query performance, backup, and recovery management, setting up replication and so on Get to grips with the essentials of database management with a recipe-based approach using the latest features of PostgreSQL 16 New and updated recipes on crucial PostgreSQL topics like Monitoring, Logging, Scalability and so on Book DescriptionPostgreSQL has seen a huge increase in its customer base in the past few years and is becoming one of the go-to solutions for anyone who has a database-specific challenge. This PostgreSQL book touches on all the fundamentals of Database Administration in a problem-solution format. It is intended to be the perfect desk reference guide. This new edition focuses on recipes based on the new PostgreSQL 16 release. The additions include handling complex batch loading scenarios with the SQL MERGE statement, security improvements, running Postgres on Kubernetes or with TPA and Ansible, and more. This edition also focuses on certain performance gains, such as query optimization, and the acceleration of specific operations, such as sort. It will help you understand roles, ensuring high availability, concurrency, and replication. It also draws your attention to aspects like validating backups, recovery, monitoring, and scaling aspects. This book will act as a one-stop solution to all your real-world database administration challenges. By the end of this book, you will be able to manage, monitor, and replicate your PostgreSQL 16 database for efficient administration and maintenance with the best practices from experts.What you will learn Discover how to improve batch data loading with the SQL MERGE statement Use logical replication to apply large transactions in parallel Improve your back up and recovery performance with server-side compression Tackle basic to high-end and real-world PostgreSQL challenges with practical recipes Monitor and fine-tune your database with ease Learn to navigate the newly introduced features of PostgreSQL 16 Efficiently secure your PostgreSQL database with new and updated features Who this book is for This Postgres book is for database administrators, data architects, database developers, and anyone with an interest in planning and running live production databases using PostgreSQL 16. Those looking for hands-on solutions to any problem associated with PostgreSQL 16 administration will also find this book useful. Some experience with handling PostgreSQL databases will help you to make the most out of this book, however, it is a useful resource even if you are just beginning your Postgres journey.

PostgreSQL 14 Administration Cookbook Simon Riggs,Gianni Ciolli,2022-03-31 Administer, monitor, and replicate your PostgreSQL 14 database for efficient database management and maintenance Key FeaturesTroubleshoot and tackle any administration and management problems in PostgreSQL 14Find expert techniques for monitoring, fine-tuning, and securing your databaseAdopt efficient replication for high availability with PostgreSQL 14Book Description PostgreSQL is a powerful, open-source database management system with an enviable reputation for high performance and stability. With many new features in its arsenal, PostgreSQL 14 allows you to scale up your PostgreSQL infrastructure. With this book, you'll take a step-by-step, recipe-based approach to effective PostgreSQL administration. This book will get you up and running with all the latest features of PostgreSQL 14 while helping you explore the entire database ecosystem. You'll learn how to tackle a variety of problems and pain points you may face as a database administrator such as creating tables, managing views, improving performance, and securing your database. As you make progress, the book will draw attention to important topics such as monitoring roles, validating backups, regular maintenance, and recovery of your PostgreSQL 14 database. This will help you understand roles, ensuring high availability, concurrency, and replication. Along with updated recipes, this book touches upon important areas like using generated columns, TOAST compression, PostgreSQL on the cloud, and much more. By the end of this PostgreSQL book, you'll have gained the knowledge you need to manage your PostgreSQL 14 database efficiently, both in the cloud and on-premise. What you will learnPlan, manage, and maintain PostgreSQL databases in productionWork with the newly introduced features of PostgreSQL 14Use pgAdmin or OmniDB to perform database administrator (DBA) tasksUse psql to write accurate and repeatable scriptsUnderstand how to tackle real-world data issues with the help of examplesSelect and implement robust backup and recovery techniques in PostgreSQL 14Deploy best practices for planning and designing live databasesWho this book is for This Postgres 14 book is for database administrators, data architects, database developers, and anyone with an interest in planning and running live production databases using PostgreSQL 14. Those looking for hands-on solutions to any problem associated with PostgreSQL 14 administration will also find this book useful. Some experience with handling PostgreSQL databases will help you to make the most out of this book, however, it is a useful resource even if you are just beginning your Postgres journey.

Cloud Native Spring in Action Thomas Vitale,2023-02-14 Build and deliver production-grade cloud-native apps with Spring framework and Kubernetes. In Cloud Native Spring in Action you'll learn: Cloud native best practices and design patterns Build and test cloud native apps with Spring Boot and Spring Cloud Handle security, resilience, and scalability in imperative and reactive applications Configure, deploy, and observe applications on Kubernetes Continuous delivery and GitOps to streamline your software lifecycle Cloud Native Spring in Action is a practical guide to building applications that are designed for cloud environments. You'll learn effective Spring and Kubernetes cloud development techniques that you can immediately apply to enterprise-grade applications. Follow a detailed and complete cloud native system from first concept right through to production and deployment, learning best practices, design patterns, and little-known tips and tricks for pain-free cloud native development. Including coverage of security, continuous delivery, and configuration, this hands-on guide is the perfect primer for navigating the increasingly complex cloud landscape. About the technology Do you want to learn how to build scalable, resilient, and observable Spring applications that take full advantage of the cloud computing model? If so, Cloud Native Spring in Action is the book for you! It will teach you the essential techniques and practices you need to build efficient Spring Boot applications ready for production in the cloud. About the book In Cloud Native Spring in Action, you'll learn how to containerize your Spring Boot applications with Cloud Native Buildpacks and deploy them on Kubernetes. This practical guide delivers unique insights into hosting microservices, serverless applications, and other modern architectures on cloud platforms. You'll learn how to use Spring-based methodologies, practices, and patterns that you won't find anywhere else. What's inside Implement cloud native patterns with Spring Handle security, resilience, and scalability Build and test imperative and reactive applications Configuration and observability on Kubernetes Adopt continuous delivery and GitOps About the reader For intermediate Java developers. About the author Thomas Vitale is a software engineer, open source contributor, and international conference speaker. Table of Contents PART 1 CLOUD NATIVE FUNDAMENTALS 1 Introduction to cloud native 2 Cloud native patterns and technologies PART 2 CLOUD NATIVE DEVELOPMENT 3 Getting started with cloud native development 4 Externalized configuration management 5 Persisting and managing data in the cloud 6 Containerizing Spring Boot 7 Kubernetes fundamentals for Spring Boot PART 3 CLOUD NATIVE DISTRIBUTED SYSTEMS 8 Reactive Spring: Resilience and scalability 9 API gateway and circuit breakers 10 Event-driven applications and functions 11 Security: Authentication and SPA 12 Security: Authorization and auditing

Mastering Prometheus Cybellium Ltd, Unleash the Power of Monitoring and Metrics In the realm of modern infrastructure management, effective monitoring and metrics are paramount to maintaining system health and performance. Mastering Prometheus serves as your definitive guide to harnessing the capabilities of this dynamic open-source monitoring and alerting toolkit, empowering you to gain deep insights into your

systems and ensure their reliability. About the Book: As technology landscapes become more intricate, the demand for sophisticated monitoring solutions grows. Mastering Prometheus offers a comprehensive exploration of Prometheus—an industry-standard monitoring and alerting system. This book caters to both newcomers and experienced IT professionals aiming to maximize their proficiency in monitoring and metrics analysis. Key Features: Prometheus Fundamentals: Begin by understanding the core concepts of Prometheus. Learn how Prometheus collects and stores metrics and how it enables querying and alerting. Setting Up Monitoring: Dive into setting up Prometheus to monitor various components of your infrastructure. Discover best practices for configuration, discovery, and instrumentation. Metrics and Labeling: Grasp the intricacies of metrics collection and labeling. Learn how to design and implement effective metric collection strategies. Alerting and Notifications: Explore the art of configuring alerts and notifications in Prometheus. Learn how to set up alert rules and integrate with various notification channels. Data Visualization: Discover how to leverage visualization tools to create insightful dashboards and visual representations of your metrics data. Scaling and High Availability: Understand how to scale Prometheus for large environments. Explore high availability setups and strategies for distributing workloads. Service Discovery and Federation: Delve into service discovery mechanisms and explore how to federate multiple Prometheus instances for a unified view of your infrastructure. Integrations and Extensibility: Grasp the power of Prometheus exporters and integrations. Learn how to extend Prometheus's capabilities to monitor diverse systems. Why This Book Matters: In an era where downtime and performance bottlenecks are costly, mastering Prometheus is a key differentiator. Mastering Prometheus equips system administrators, DevOps engineers, and technology enthusiasts with the skills needed to build a robust monitoring infrastructure, enabling them to gain insights into their systems' behaviors and ensure seamless operations. Elevate Your Monitoring Game: Effective monitoring is the linchpin of modern infrastructure management. Mastering Prometheus empowers you to tap into the full potential of Prometheus, enabling you to monitor and analyze your systems' performance with precision. Whether you're a seasoned professional or new to the realm of monitoring, this book will guide you in establishing a solid foundation for proactive and data-driven operations. Your journey to mastering Prometheus starts here. © 2023 Cybellium Ltd. All rights reserved. www.cybellium.com

Monitoring with Prometheus James Turnbull,2018-06-12 Learn how to implement metrics-centric monitoring with Prometheus. This introductory book teaches you how to use Prometheus to monitor hosts, applications, and services. We cover installation, basic monitoring, service discovery, alerting, log monitoring, scaling, and visualization. Includes introducing you to monitoring basics, methodologies and approaches. Learn how to monitor in a metric-centric world including building dynamic thresholds, basic anomaly detection, monitoring aggregation, and federation. We'll look at how to apply modern patterns like Google's Four Golden Signals, the USE method, and the RED method. We cover monitoring Kubernetes, Docker containers, databases, and we look at instrumenting applications and integrating logging. We focus on the particular challenges of monitoring highly dynamic, transitory environments and new architectures like microservices. We focus on monitoring in the Cloud, including looking at service discovery and monitoring for Cloud platforms.

DevOps with Kubernetes Hideto Saito,Hui-Chuan Chloe Lee,Cheng-Yang Wu,2017-10-16 Learn to implement DevOps using Docker & Kubernetes. About This Book Learning DevOps, container, and Kubernetes within one book. Leverage Kubernetes as a platform to deploy, scale, and run containers efficiently. A practical guide towards container management and orchestration Who This Book Is For This book is targeted for anyone, who wants to learn containerization and clustering in a practical way using Kubernetes. No prerequisite skills required, however, essential DevOps skill and public/private Cloud knowledge will accelerate the reading speed. If you're advanced readers, you can also get a deeper understanding of all the tools and technique described in the book. What You Will Learn Learn fundamental and advanced DevOps skills and tools Get a comprehensive understanding for container Learn how to move your application to container world Learn how to manipulate your application by Kubernetes Learn how to work with Kubernetes in popular public cloud Improve time to market with Kubernetes and Continuous Delivery Learn how to monitor, log, and troubleshoot your application with Kubernetes In Detail Containerization is said to be the best way to implement DevOps. Google developed Kubernetes, which orchestrates containers efficiently and is considered the frontrunner in container orchestration. Kubernetes is an orchestrator that creates and manages your containers on clusters of servers. This book will guide you from simply deploying a container to administrate a Kubernetes cluster, and then you will learn how to do monitoring, logging, and continuous deployment in DevOps. The initial stages of the book will introduce the fundamental DevOps and the concept of containers. It will move on to how to containerize applications and deploy them into. The book will then introduce networks in Kubernetes. We then move on to advanced DevOps skills such as monitoring, logging, and continuous deployment in Kubernetes. It will proceed to introduce permission control for Kubernetes resources via attribute-based access control and role-based access control. The final stage of the book will cover deploying and managing your container clusters on the popular public cloud Amazon Web Services and Google Cloud Platform. At the end of the book, other orchestration frameworks, such as Docker Swarm mode, Amazon ECS, and Apache Mesos will be discussed. Style and approach Readers will be taken through fundamental DevOps skills and Kubernetes concept and administration with detailed examples. It introduces comprehensive DevOps topics, including microservices, automation tools, containers, monitoring, logging, continuous delivery, and popular public cloud environments. At each step readers will learn how to leverage Kubernetes in their everyday lives and transform their original delivery pipeline for fast and efficient delivery.

Hands-on Site Reliability Engineering Shamayel M. Farooqui,Vishnu Vardhan Chikoti,2021-07-06 A comprehensive guide with basic to advanced SRE practices and hands-on examples. KEY FEATURES ● Demonstrates how to execute site reliability engineering along with fundamental concepts. ● Illustrates real-world examples and successful techniques to put SRE into production. ● Introduces you to DevOps, advanced techniques of SRE, and popular tools in use. DESCRIPTION Hands-on Site Reliability Engineering (SRE) brings you a tailor-made guide to learn and practice the essential activities for the smooth functioning of enterprise systems, right from designing to the deployment of enterprise software programs and extending to scalable use with complete efficiency and reliability. The book explores the fundamentals around SRE and related terms, concepts, and techniques that are used by SRE teams and experts. It discusses the essential elements of an IT system, including microservices, application architectures, types of software deployment, and concepts like load balancing. It explains the best techniques in delivering timely software releases using containerization and CI/CD pipeline. This book covers how to track and monitor application performance using Grafana, Prometheus, and Kibana along with how to extend monitoring more effectively by building full-stack observability into the system. The book also talks about chaos engineering, types of system failures, design for high-availability, DevSecOps and AIOps. WHAT YOU WILL LEARN ● Learn the best techniques and practices for building and running reliable software. ● Explore observability and popular methods for effective monitoring of applications. ● Workaround SLIs, SLOs, Error Budgets, and Error Budget Policies to manage failures. ● Learn to practice continuous software delivery using blue/green and canary deployments. ● Explore chaos engineering, SRE best practices, DevSecOps and AIOps. WHO THIS BOOK IS FOR This book caters to experienced IT professionals, application developers, software engineers, and all those who are looking to develop SRE capabilities at the individual or team level. TABLE OF CONTENTS 1. Understand the World of IT 2. Introduction to DevOps 3. Introduction to SRE 4. Identify and Eliminate Toil 5. Release Engineering 6. Incident Management 7. IT Monitoring 8. Observability 9. Key SRE KPIs: SLAs, SLOs, SLIs, and Error Budgets 10. Chaos Engineering 11. DevSecOps and AIOps 12. Culture of Site Reliability Engineering

Mastering Kubernetes Gigi Sayfan,2023-06-16 Go beyond the basics of Kubernetes and explore more advanced concepts, including Kubernetes in production, governance, serverless computing, and service meshes. Purchase of the print or Kindle book includes a free eBook in PDF format. Key Features Master Kubernetes architecture and design to build, deploy, and secure large-scale distributed systems Learn advanced concepts like autoscaling, multi-cluster management, serverless computing, service meshes and policy engines Explore Kubernetes 1.25 and its rich ecosystem of tools like Kubectl, Krew, K9s, Lens, and Helm Book DescriptionThe fourth edition of the bestseller Mastering Kubernetes includes the most recent tools and code to enable you to learn the latest features of Kubernetes 1.25. This book contains a thorough exploration of complex concepts and best practices to help you master the skills of designing and deploying large-scale distributed systems on Kubernetes clusters. You'll learn how to run complex stateless and stateful microservices on Kubernetes, including advanced features such as horizontal pod autoscaling, rolling updates, resource quotas, and persistent storage backends. In addition, you'll understand how to utilize serverless computing and

service meshes. Further, two new chapters have been added. "Governing Kubernetes" covers the problem of policy management, how admission control addresses it, and how policy engines provide a powerful governance solution. "Running Kubernetes in Production" shows you what it takes to run Kubernetes at scale across multiple cloud providers, multiple geographical regions, and multiple clusters, and it also explains how to handle topics such as upgrades, capacity planning, dealing with cloud provider limits/quotas, and cost management. By the end of this Kubernetes book, you'll have a strong understanding of, and hands-on experience with, a wide range of Kubernetes capabilities.What you will learn Learn how to govern Kubernetes using policy engines Learn what it takes to run Kubernetes in production and at scale Build and run stateful applications and complex microservices Master Kubernetes networking with services, Ingress objects, load balancers, and service meshes Achieve high availability for your Kubernetes clusters Improve Kubernetes observability with tools such as Prometheus, Grafana, and Jaeger Extend Kubernetes with the Kubernetes API, plugins, and webhooks Who this book is for If you're a system administrator or cloud developer who wants to become comfortable with Kubernetes and would like to master its advanced features, then this book is for you. Software and DevOps engineers with a working knowledge of Kubernetes, as well as technical managers of Kubernetes-based systems, will also find this book useful. Those deciding on whether to migrate to Kubernetes and are curious about its inner workings will find plenty of answers here as well. Basic familiarity with networking concepts will prove beneficial.

IBM Cloud Private System Administrator's Guide Ahmed Azraq,Wlodek Dymaczewski,Fernando Ewald,Luca Floris,Rahul Gupta,Vasfi Gucer,Anil Patil,Sanjay Singh,Sundaragopal Venkatraman,Dominique Vernier,Zhi Min Wen,IBM Redbooks,2019-06-27 IBM® Cloud Private is an application platform for developing and managing containerized applications across hybrid cloud environments, on-premises and public clouds. It is an integrated environment for managing containers that includes the container orchestrator Kubernetes, a private image registry, a management console, and monitoring frameworks. This IBM Redbooks covers tasks performed by IBM Cloud Private system administrators such as installation for high availability, configuration, backup and restore, using persistent volumes, networking, security, logging and monitoring. Istio integration, troubleshooting and so on. As part of this project we also developed several code examples and you can download those from the IBM Redbooks GitHub location: https://github.com/IBMRedbooks. The authors team has many years of experience in implementing IBM Cloud Private and other cloud solutions in production environments, so throughout this document we took the approach of providing you the recommended practices in those areas. If you are an IBM Cloud Private system administrator, this book is for you. If you are developing applications on IBM Cloud Private, you can see the IBM Redbooks publication IBM Cloud Private Application Developer's Guide, SG24-8441.

Mastering GitLab 12 Joost Evertse,2019-08-02 An expert guide to helping you use DevOps techniques with the latest GitLab version to optimize and manage your software workflow Key FeaturesDelve into GitLab's architecture, and install and configure it to fit your environmentLearn about the underlying principles of Agile software development and DevOpsExplore Gitlab's features to manage enterprise cloud-native applications and servicesBook Description GitLab is an open source repository management and version control toolkit with functions for enterprises and personal software projects. It offers configurability options, extensions, and APIs that make it an ideal tool for enterprises to manage the software development life cycle. This book begins by explaining GitLab options and the components of the GitLab architecture. You will learn how to install and set up GitLab on-premises and in the cloud, along with understanding how to migrate code bases from different systems, such as GitHub, Concurrent Versions System, Team Foundation Version Control, and Subversion. Later chapters will help you implement DevOps culture by introducing the workflow management tools in GitLab and continuous integration/continuous deployment (CI/CD). In addition to this, the book will guide you through installing GitLab on a range of cloud platforms, monitoring with Prometheus, and deploying an environment with GitLab. You'll also focus on the GitLab CI component to assist you with creating development pipelines and jobs, along with helping you set up GitLab runners for your own project. Finally, you will be able to choose a high availability setup that fits your needs and helps you monitor and act on results obtained after testing. By the end of this book, you will have gained the expertise you need to use GitLab features effectively, and be able to integrate all phases in the development process. What you will learnInstall GitLab on premises and in the cloud using a variety of configurationsConduct data migration from the SVN, TFS, CVS, and GitHub platforms to GitLabUse GitLab runners to develop different types of configurations in software developmentPlan and perform CI/CD by using GitLab featuresMonitor and secure your software architecture using Prometheus and GrafanaImplement DevOps culture by introducing workflow management tools in GitLabWho this book is for If you are a software developer, DevOps professional, or any developer who wants to master GitLab for productive repository management in your day-to-day tasks, this book is for you. Basic understanding of the software development workflow is assumed.

Monitoring Microservices and Containerized Applications Navin Sabharwal,Piyush Pandey,2020-10-01 Discover the methodologies and best practices for getting started with container services monitoring using Prometheus, AppDynamics, and Dynatrace. The book begins with the basics of working with the containerization and microservices architecture while establishing the need for monitoring and management technologies. You'll go through hands-on deployment, configuration, and best practices for Prometheus. Next, you'll delve deeper into monitoring of container ecosystems for availability, performance, and logs, and then cover the reporting capabilities of Prometheus. Further, you'll move on to advanced topics of extending Prometheus including how to develop new use cases and scenarios. You'll then use enterprise tools such as AppDynamics and Wavefront to discover deeper application monitoring best practices. You'll conclude with fully automated deployment of the monitoring and management platforms integrated with the container ecosystem using infrastructure-as -code tools such as Jenkins, Ansible and Terraform. The book provides sample code and best practices for you to look at container monitoring from a holistic viewpoint. This book is a good starting point for developers, architects, and administrators who want to learn about monitoring and management of cloud native and microservices containerized applications. What You Will Learn Examine the fundamentals of container monitoring Get an overview of the architecture for Prometheus and Alert Manager Enable Prometheus monitoring for containers Monitor containers using Wavefront Use the guidelines on container monitoring with enterprise solutions AppDynamics and Wavefront Who This Book Is For Software developers, system administrators, and DevOps engineers working for enterprise customers who want to use monitoring solutions for their container ecosystems.

Prometheus: Up & Running Brian Brazil,2018-07-09 Get up to speed with Prometheus, the metrics-based monitoring system used by tens of thousands of organizations in production. This practical guide provides application developers, sysadmins, and DevOps practitioners with a hands-on introduction to the most important aspects of Prometheus, including dashboarding and alerting, direct code instrumentation, and metric collection from third-party systems with exporters. This open source system has gained popularity over the past few years for good reason. With its simple yet powerful data model and query language, Prometheus does one thing, and it does it well. Author and Prometheus developer Brian Brazil guides you through Prometheus setup, the Node exporter, and the Alertmanager, then demonstrates how to use them for application and infrastructure monitoring. Know where and how much to apply instrumentation to your application code Identify metrics with labels using unique key-value pairs Get an introduction to Grafana, a popular tool for building dashboards Learn how to use the Node Exporter to monitor your infrastructure Use service discovery to provide different views of your machines and services Use Prometheus with Kubernetes and examine exporters you can use with containers Convert data from other monitoring systems into the Prometheus format

Advanced Manufacturing and Automation X Yi Wang,Kristian Martinsen,Tao Yu,Kesheng Wang,2021-01-22 This book presents selected papers from the 10th International Workshop of Advanced Manufacturing and Automation (IWAMA 2020), held in Zhanjiang, Guangdong province, China, on October 12-13, 2020. Discussing topics such as novel techniques for manufacturing and automation in Industry 4.0 and smart factories, which are vital for maintaining and improving economic development and quality of life, it offers researchers and industrial engineers insights into implementing the concepts and theories of Industry 4.0, in order to effectively respond to the challenges posed by the 4th industrial revolution and smart factories.

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