Practical Nginx The Zero To Hero Udemy Course Review

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Cloud Native DevOps mit Kubernetes
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The Definitive Guide to Catalyst
Implementing Enterprise Cyber Security with Open-Source Software and Standard Architecture: Volume II
Research in Attacks, Intrusions, and Defenses

WOODARD LILIAN

Hands-On Kubernetes, Service Mesh and Zero-Trust Carl Hanser Verlag GmbH Co KG
Ein Startup ist nicht die Miniaturausgabe eines etablierten Unternehmens, sondern eine temporäre, flexible Organisation auf der Suche nach einem nachhaltigen Geschäftsmodell: Das ist die zentrale Erkenntnis, die dem "Handbuch für Startups" zugrundeliegt. Es verbindet den Lean-Ansatz, Prinzipien des Customer Development sowie Konzepte wie Design Thinking und (Rapid) Prototyping zu einem umfassenden Vorgehensmodell, mit dem sich aus Ideen und Innovationen tragfähige Geschäftsmodelle entwickeln lassen. Lean Startup & Customer Development: Der Lean-Ansatz für Startups basiert, im Unterschied zum klassischen Vorgehen, nicht auf einem starren Businessplan, der drei Jahre lang unverändert umzusetzen ist, sondern auf einem beweglichen Modell, das immer wieder angepasst wird. Sämtliche Bestandteile der Planung – von den Produkteigenschaften über die Zielgruppen bis hin zum Vertriebsmodell – werden als Hypothesen gesehen, die zu validieren bzw. zu falsifizieren sind. Erst nachdem sie im Austausch mit den potenziellen Kunden bestätigt wurden und nachhaltige Verkäufe möglich sind, verlässt das Startup seine Suchphase und widmet sich der Umsetzung und Skalierung seines Geschäftsmodells. Der große Vorteil: Fehlannahmen werden erheblich früher erkannt – nämlich zu einem Zeitpunkt, an dem man noch die Gelegenheit hat, Änderungen vorzunehmen. Damit erhöhen sich die Erfolgsaussichten beträchtlich. Für den Praxiseinsatz: Sämtliche Schritte werden in diesem Buch detailliert beschrieben und können anhand der zahlreichen Checklisten nachvollzogen werden. Damit ist das Handbuch ein wertvoller Begleiter und ein umfassendes Nachschlagewerk für Gründerinnen & Gründer. Von deutschen Experten begleitet: Die deutsche Ausgabe des international erfolgreichen Handbuchs entstand mit fachlicher Unterstützung von Prof. Dr. Nils Högsdal und Entrepreneur Daniel Bartel, die auch ein deutsches Vorwort sowie sieben Fallstudien aus dem deutschsprachigen Raum beisteuern.

Real-World Implementation of C# Design Patterns Packt Publishing Ltd
“Handbook for CTFers: Zero to One” was written by the Nu1L team, one of China’s top CTF teams. As for Jeopardy-style CTFs, the content in the first 10 chapters of this

book not only covers traditional categories of tasks like WEB, PWN and Crypto, but also includes some of the latest hot topics and techniques, such as blockchain. Case studies are provided for all of these types. Onsite Attack-Defend-style CTFs and penetration testing are introduced in Chapter 11 and Chapter 12. In order to help readers gain the most from the book, we have developed the N1Book platform, which addresses practical questions for different task categories. The book offers beginners a reliable, systematic tutorial on CTF competition. At the same time, it includes real case studies and a wealth of our competition experience, making it a valuable asset for experienced CTF players.

The Ultimate Docker Container Book Packt Publishing Ltd

Master key features of Go, including advanced concepts like concurrency and working with JSON, to create and optimize real-world services, network servers, and clients Key FeaturesThis third edition of the bestselling guide to advanced Go programming has been overhauled and expanded to cover RESTful servers, the WebSocket protocol, and Go genericsUse real-world exercises to build high-performance network servers and powerful command line utilitiesPacked with practical examples and utilities to apply to your own development work and administrative tasksGet clear explanations about Go nuances and features to simplify Go developmentBook Description Mastering Go is the essential guide to putting Go to work on real production systems. This freshly updated third edition includes topics like creating RESTful servers and clients, understanding Go generics, and developing gRPC servers and clients. Mastering Go was written for programmers who want to explore the capabilities of Go in practice. As you work your way through the chapters, you'll gain confidence and a deep understanding of advanced Go concepts, including concurrency and the operation of the Go Garbage Collector, using Go with Docker, writing powerful command-line utilities, working with JavaScript Object Notation (JSON) data, and interacting with databases. You'll also improve your understanding of Go internals to optimize Go code and use data types and data structures in new and unexpected ways. This essential Go programming book will also take you through the nuances and idioms of Go with exercises and resources to fully embed your newly acquired knowledge. With the help of Mastering Go, you'll become an expert Go programmer by building Go systems and implementing advanced Go techniques in your projects. What you will learnUse Go in productionWrite reliable, high-performance concurrent codeManipulate data structures including slices, arrays, maps, and pointersDevelop reusable packages with reflection and interfacesBecome familiar with generics for effective Go programmingCreate concurrent RESTful servers, and build gRPC clients and serversDefine Go structures for working with JSON dataWho this book is for You'll need to know the basics of Go before you get started with this book, but beyond that, anyone can sink their teeth into it. It's written primarily for Go programmers who have a bit of experience with the language and want to become expert practitioners.

The Kubernetes Operator Framework Book Packt Publishing Ltd

PHP is experiencing a renaissance, though it may be difficult to tell with all of the outdated PHP tutorials online. With this practical guide, you'll learn how PHP has become a full-featured, mature language with object-orientation, namespaces, and a growing collection of reusable component libraries. Author Josh Lockhart—creator of PHP The Right Way, a popular initiative to encourage PHP best practices—reveals these new language features in action. You'll learn best practices for application architecture and planning, databases, security, testing, debugging, and deployment. If you have a basic understanding of PHP and want to bolster your skills, this is your book. Learn modern PHP features, such as namespaces, traits, generators, and closures Discover how to find, use, and create PHP components Follow best practices for application security, working with databases, errors and exceptions, and more Learn tools and techniques for deploying, tuning, testing, and profiling your PHP applications Explore Facebook's HVVM and Hack language implementations—and how they affect modern PHP Build a local development environment that closely matches your production server

Open Source Software in Life Science Research Apress

Explore site reliability engineering practices and learn key Google Cloud Platform (GCP) services such as CSR, Cloud Build, Container Registry, GKE, and Cloud Operations to implement DevOps Key FeaturesLearn GCP services for version control, building code, creating artifacts, and deploying secured containerized applicationsExplore Cloud Operations features such as Metrics Explorer, Logs Explorer, and debug logpointsPrepare for the certification exam using practice questions and mock testsBook Description DevOps is a set of practices that help remove barriers between developers and system administrators, and is implemented by Google through site reliability engineering (SRE). With the help of this book, you'll explore the evolution of DevOps and SRE, before delving into SRE technical practices such as SLA, SLO, SLI, and error budgets that are critical to building reliable software faster and balance new feature deployment with system reliability. You'll then explore SRE cultural practices such as incident management and being on-call, and learn the building blocks to form SRE teams. The second part of the book focuses on Google Cloud services to implement DevOps via continuous integration and continuous delivery (CI/CD). You'll learn how to add source code via Cloud Source Repositories, build code to create deployment artifacts via Cloud Build, and push it to Container Registry. Moving on, you'll understand the need for container orchestration via Kubernetes, comprehend Kubernetes essentials, apply via Google Kubernetes Engine (GKE), and secure the GKE cluster. Finally, you'll explore Cloud Operations to monitor, alert, debug, trace, and profile deployed applications. By the end of this SRE book, you'll be well-versed with the key concepts necessary for gaining Professional Cloud DevOps Engineer certification with the help of mock tests. What you will learnCategorize user journeys and explore different ways to measure SLIsExplore the four golden signals for monitoring a user-facing systemUnderstand psychological safety along with other SRE cultural practicesCreate containers with build triggers and manual invocationsDelve into Kubernetes workloads and potential deployment strategiesSecure GKE clusters via private clusters, Binary Authorization, and shielded GKE nodesGet to grips with monitoring, Metrics Explorer, uptime checks, and alertingDiscover how logs are ingested via the Cloud Logging APIWho this book is for This book is for cloud system administrators and network engineers interested in resolving cloud-based operational issues. IT professionals looking to enhance their careers in administering Google Cloud services and users who want to learn about applying SRE principles and implementing DevOps in GCP will also benefit from this book. Basic knowledge of cloud computing, GCP services, and CI/CD and hands-on experience with Unix/Linux infrastructure is recommended. You'll also find this book

useful if you're interested in achieving Professional Cloud DevOps Engineer certification.

Mastering NGINX "O'Reilly Media, Inc." Summary HTTP/2 in Action is a complete guide to HTTP/2, one of the core protocols of the web. Because HTTP/2 has been designed to be easy to transition to, including keeping it backwards compatible, adoption is rapid and expected to increase over the next few years. Concentrating on practical matters, this interesting book presents key HTTP/2 concepts such as frames, streams, and multiplexing and explores how they affect the performance and behavior of your websites. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology HTTP—Hypertext Transfer Protocol—is the standard for exchanging messages between websites and browsers. And after 20 years, it's gotten a much-needed upgrade. With support for streams, server push, header compression, and prioritization, HTTP/2 delivers vast improvements in speed, security, and efficiency. About the Book HTTP/2 in Action teaches you everything you need to know to use HTTP/2 effectively. You'll learn how to optimize web performance with new features like frames, multiplexing, and push. You'll also explore real-world examples on advanced topics like flow control and dependencies. With ready-to-implement tips and best practices, this practical guide is sure to get you—and your websites—up to speed! What's Inside HTTP/2 for web developers Upgrading and troubleshooting Real-world examples and case studies QUIC and HTTP/3 About the Reader Written for web developers and site administrators. About the Authors Barry Pollard is a professional developer with two decades of experience developing, supporting, and tuning software and infrastructure. Table of Contents PART 1 MOVING TO HTTP/2 Web technologies and HTTP The road to HTTP/2 Upgrading to HTTP/2 PART 2 USING HTTP/2 HTTP/2 protocol basics Implementing HTTP/2 push Optimizing for HTTP/2 PART 3 ADVANCED HTTP/2 Advanced HTTP/2 concepts HPACK header compression PART 4 THE FUTURE OF HTTP TCP, QUIC, and HTTP/3 Where HTTP goes from here

Mastering Go O'Reilly Germany Summary Docker in Practice, Second Edition presents over 100 practical techniques, hand-picked to help you get the most out of Docker. Following a Problem/Solution/Discussion format, you'll walk through specific examples that you can use immediately, and you'll get expert guidance on techniques that you can apply to a whole range of scenarios. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Docker's simple idea-wrapping an application and its dependencies into a single deployable container-created a buzz in the software industry. Now, containers are essential to enterprise infrastructure, and Docker is the undisputed industry standard. So what do you do after you've mastered the basics? To really streamline your applications and transform your dev process, you need relevant examples and experts who can walk you through them. You need this book. About the Book Docker in Practice, Second Edition teaches you rock-solid, tested Docker techniques, such as replacing VMs, enabling microservices architecture, efficient network modeling, offline productivity, and establishing a container-driven continuous delivery process. Following a cookbook-style problem/solution format, you'll explore real-world use cases and learn how to apply the lessons to your own dev projects. What's inside Continuous integration and delivery The Kubernetes orchestration tool Streamlining your cloud workflow Docker in swarm mode Emerging best practices and techniques About the Reader Written for developers and engineers using Docker in production. About the Author Ian Miell and Aidan Hobson Sayers are seasoned infrastructure architects working in the UK. Together, they used Docker to transform DevOps at one of the UK's largest gaming companies. Table of Contents PART 1 - DOCKER FUNDAMENTALS Discovering Docker Understanding Docker: Inside the engine room PART 2 - DOCKER AND DEVELOPMENT Using Docker as a lightweight virtual machine Building images Running containers Day-to-day Docker Configuration management: Getting your house in order PART 3 - DOCKER AND DEVOPS Continuous integration: Speeding up your development pipeline Continuous delivery: A perfect fit for Docker principles Network simulation: Realistic environment testing without the pain PART 4 - ORCHESTRATION FROM A SINGLE MACHINE TO THE CLOUD A primer on container orchestration The data center as an OS with Docker Docker platforms PART 5 - DOCKER IN PRODUCTION Docker and security Plain sailing: Running Docker in production Docker in production: Dealing with challenges

Practical Ansible 2 dpunkt.verlag Developers with the ability to operate, troubleshoot, and monitor applications in Kubernetes are in high demand today. To meet this need, the Cloud Native Computing Foundation created a certification exam to establish a developer's credibility and value in the job market to work in a Kubernetes environment. The Certified Kubernetes Application Developer (CKAD) exam is different from the typical multiple-choice format of other certifications. Instead, the CKAD is a performance-based exam that requires deep knowledge of the tasks under immense time pressure. This study guide walks you through all the topics you need to fully prepare for the exam. Author Benjamin Muschko also shares his personal experience with preparing for all aspects of the exam. Learn when and how to apply Kubernetes concepts to manage an application Understand the objectives, abilities, tips, and tricks needed to pass the CKAD exam Explore the ins and outs of the kubectl command-line tool Demonstrate competency for performing the responsibilities of a Kubernetes application developer Solve real-world Kubernetes problems in a hands-on command-line environment Navigate and solve questions during the CKAD exam

Kubernetes Cookbook Packt Publishing Ltd

Effortlessly create and manage complex multi-component applications based on Docker containers Key Features Gain a clear understanding of software containers from the SecDevOps perspective Master the construction of application pieces within containers to achieve a seamless life cycle Prepare your applications to run smoothly and with ease in complex container orchestrators Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionDevelopers are changing their deployment artifacts from application binaries to container images, giving rise to the need to build container-based apps as part of their new development workflow. Managing an app’s life cycle is complex and requires effort—this book will show you how to efficiently develop, share, and execute applications. You’ll learn how to automate the build and delivery process using CI/CD tools with containers as container orchestrators manage the complexity of running cluster-wide applications, creating infrastructure abstraction layers, while your applications run with high availability, resilience, and persistence. As you advance, you’ll develop, test, and debug applications on your desktop and get them ready to run in production with optimal security standards, using deployment patterns and monitoring tools to help identify common issues. You’ll also review deployment patterns that’ll enable you to

solve common deployment problems, providing high availability, scalability, and security to your applications. Finally, you'll explore different solutions to monitor, log, and instrument your applications as per open-source community standards. By the end of this book, you'll be able to manage your app's life cycle by implementing CI/CD workflows using containers to automate the building and delivery of its components.What you will learn Find out how to build microservices-based applications using containers Deploy your processes within containers using Docker features Orchestrate multi-component applications on standalone servers Deploy applications cluster-wide in container orchestrators Solve common deployment problems such as persistency or app exposure using best practices Review your application's health and debug it using open-source tools Discover how to orchestrate CI/CD workflows using containers Who this book is forThis book is for developers and DevOps engineers looking to learn about the implementation of containers in application development, especially DevOps engineers who deploy, monitor, and maintain container-based applications running on orchestrated platforms. In general, this book is for IT professionals who want to understand Docker container-based applications and their deployment. A basic understanding of coding and frontend-backend architectures is needed to follow the examples presented in this book.

Web-Services mit REST Packt Publishing Ltd

Docker in Practice, Second EditionSimon and Schuster

Practical Ansible Springer

Docker-Container bieten eine einfache, schnelle und robuste Möglichkeit, Software zu entwickeln, zu verteilen und laufen zu lassen – besonders in dynamischen und verteilten Umgebungen. Mit diesem praktischen Leitfaden lernen Sie, warum Container so wichtig sind, was durch den Einsatz von Docker möglich ist und wie Sie es in Ihren Entwicklungsprozess einbinden. Dieses Buch ist aktuell zu Docker 1.12 und ideal für Entwickler, Operations-Techniker und Administratoren – insbesondere, wenn Sie einen DevOps-Ansatz verfolgen. Es nimmt Sie mit auf eine Reise von den Grundlagen bis zum Ausführen Dutzender Container auf einem Multi-Host-System mit Networking und Scheduling. Im Verlauf des Buches erfahren Sie, welche Schritte zum Entwickeln, Testen und Bereitstellen einer Webanwendung mit Docker notwendig sind. • Beginnen Sie mit Docker, indem Sie eine einfache Webanwendung entwickeln und bereitstellen. • Nutzen Sie Techniken aus dem Continuous Deployment, um Ihre Anwendung mehrmals pro Tag in die Produktivumgebung zu bringen. • Lernen Sie Optionen und Techniken kennen, um mehrere Container gleichzeitig zu protokollieren und zu überwachen. • Befassen Sie sich mit dem Erkennen im Netzwerk und mit Services: Wie finden sich Container gegenseitig und wie verbinden Sie sie? • Orchestrieren und clustern Sie Container, um Load Balancing zu ermöglichen, Ihr System skalierbar zu machen sowie Failovers und Scheduling umzusetzen. • Sichern Sie Ihr System, indem Sie den Prinzipien der "Defense in Depth" und dem Konzept der geringsten Rechte folgen. • Setzen Sie Container ein, um eine Microservices-Architektur aufzubauen.

Introducing Azure Kubernetes Service Simon and Schuster

Start from scratch and develop the essential skills needed to create, deploy, and manage cloud-native applications using Docker with the latest edition of Docker Deep Dive Key Features Get a solid understanding of Docker and containers Overcome common problems while containerizing an application Master Docker commands needed for creating, deploying, and running applications Book Description Most applications, even the funky cloud-native microservices ones, need high-performance, production-grade infrastructure to run on. Having impeccable knowledge of Docker will help you thrive in the modern cloud-first world. With this book, you will gain the skills you need in order to work with Docker and its containers. The book begins with an introduction to containers and explains their functionality and application in the real world. You will then get an overview of VMware, Kubernetes, and Docker and learn to install Docker on Windows, Mac, and Linux. Once you have understood the Ops and Dev perspective of Docker, you will be able to see the big picture and understand what Docker exactly does. The book then turns its attention to the more technical aspects, guiding you through practical exercises covering Docker engine, Docker images, and Docker containers. You will learn techniques for containerizing an app, deploying apps with Docker Compose, and managing cloud-native applications with Swarm. You will also build Docker networks and Docker overlay networks and handle applications that write persistent data. Finally, you will deploy apps with Docker stacks and secure your Docker environment. By the end of this book, you will be well-versed in Docker and containers and have developed the skills to create, deploy, and run applications on the cloud. What you will learn Become familiar with the applications of Docker and containers Discover how to pull images into Docker host's local registry Find out how to containerize an app with new example apps Cover multi-platform builds to test Docker overlay network in the swarm mode Use Docker Compose to deploy and manage multi-container applications Share sensitive data with containers and Swarm services securely Who this book is for Whether you are a beginner or an experienced developer looking to utilize Docker to develop and operate cloud-native microservices apps, this book is for you. Anyone who wants to learn Docker orchestration, networking, imaging, and security will also find it useful. No prior knowledge of Docker is necessary.

Apress

An in-depth guide to configuring NGINX for your everyday server needs About This Book Get tips, tricks, and master insight to help you configure NGINX for any server situation Integrate NGINX into your applications architecture with is, using hands-on guidance and practical code samples that are free to use Troubleshoot configuration problems before and as they arise, for a seamless NGINX server experience Who This Book Is For This book is for system administrators and engineers who want to personalize NGINX, and design a robust configuration module to solve their hosting problems. Some knowledge of NGINX is a plus, but is not a prerequisite. What You Will Learn Compile the right third-party module to meet your needs Write an authentication server to use with the mail proxy module Create your own SSL certificates to encrypt connections Use try_files to solve your file-existence check problems Cache and compress responses to get speedier user interaction Integrate popular PHP frameworks with the FastCGI module Construct useful logging configurations In Detail NGINX is a high-performance HTTP server and mail proxy designed to use very few system resources. But despite its power it is often a challenge to properly configure NGINX to meet your expectations. Mastering Nginx is the solution – an insider's guide that will clarify the murky waters of NGINX's configuration. Tune NGINX for various situations, improve your NGINX experience with some of the more obscure configuration directives, and discover how to design and personalize a configuration to match your needs. To begin with, quickly brush up on installing and setting up the NGINX server on the OS and its

integration with third-party modules. From here, move on to explain NGINX's mail proxy module and its authentication, and reverse proxy to solve scaling issues. Then see how to integrate NGINX with your applications to perform tasks. The latter part of the book focuses on working through techniques to solve common web issues and the know-hows using NGINX modules. Finally, we will also explore different configurations that will help you troubleshoot NGINX server and assist with performance tuning. Style and approach This is a mastering guide where you will follow an instructional, conversational approach working through problems and their solutions.

Handbook for CTFers Packt Publishing Ltd

Cyber security is one of the most critical problems faced by enterprises, government organizations, education institutes, small and medium scale businesses, and medical institutions today. Creating a cyber security posture through proper cyber security architecture, deployment of cyber defense tools, and building a security operation center are critical for all such organizations given the preponderance of cyber threats. However, cyber defense tools are expensive, and many small and medium-scale business houses cannot procure these tools within their budgets. Even those business houses that manage to procure them cannot use them effectively because of the lack of human resources and the knowledge of the standard enterprise security architecture. In 2020, the C3i Center at the Indian Institute of Technology Kanpur developed a professional certification course where IT professionals from various organizations go through rigorous six-month long training in cyber defense. During their training, groups within the cohort collaborate on team projects to develop cybersecurity solutions for problems such as malware analysis, threat intelligence collection, endpoint detection and protection, network intrusion detection, developing security incidents, event management systems, etc. All these projects leverage open-source tools, and code from various sources, and hence can be also constructed by others if the recipe to construct such tools is known. It is therefore beneficial if we put these recipes out in the form of book chapters such that small and medium scale businesses can create these tools based on open-source components, easily following the content of the chapters. In 2021, we published the first volume of this series based on the projects done by cohort 1 of the course. This volume, second in the series has new recipes and tool development expertise based on the projects done by cohort 3 of this training program. This volume consists of nine chapters that describe experience and know-how of projects in malware analysis, web application security, intrusion detection system, and honeypot in sufficient detail so they can be recreated by anyone looking to develop home grown solutions to defend themselves from cyber-attacks.

Kubernetes in Action Elsevier

Whether you're deploying applications on-premise or in the cloud, this cookbook is for developers, operators, and IT professionals who need practical solutions for using Docker. The recipes in this book will help developers go from zero knowledge to distributed applications packaged and deployed within a couple of chapters. IT professionals will be able to use this cookbook to solve everyday problems, as well as create, run, share, and deploy Docker images quickly. Operators will learn and understand what developers are excited about and start to adopt the tools that will change the way they work.--

Learn Docker - Fundamentals of Docker 18.x HOEPLI EDITORE

Learn proven patterns, techniques, and tricks to take full advantage of the Node.js platform. Master well-known design principles to create applications that are readable, extensible, and that can grow big. Key FeaturesLearn how to create solid server-side applications by leveraging the full power of Node.js 14Understand how Node.js works and learn how to take full advantage of its core components as well as the solutions offered by its ecosystemAvoid common mistakes and use proven patterns to create production grade Node.js applicationsBook Description In this book, we will show you how to implement a series of best practices and design patterns to help you create efficient and robust Node.js applications with ease. We kick off by exploring the basics of Node.js, analyzing its asynchronous event driven architecture and its fundamental design patterns. We then show you how to build asynchronous control flow patterns with callbacks, promises and async/await. Next, we dive into Node.js streams, unveiling their power and showing you how to use them at their full capacity. Following streams is an analysis of different creational, structural, and behavioral design patterns that take full advantage of JavaScript and Node.js. Lastly, the book dives into more advanced concepts such as Universal JavaScript, scalability and messaging patterns to help you build enterprise-grade distributed applications. Throughout the book, you'll see Node.js in action with the help of several real-life examples leveraging technologies such as LevelDB, Redis, RabbitMQ, ZeroMQ, and many others. They will be used to demonstrate a pattern or technique, but they will also give you a great introduction to the Node.js ecosystem and its set of solutions. What you will learnBecome comfortable with writing asynchronous code by leveraging callbacks, promises, and the async/await syntaxLeverage Node.js streams to create data-driven asynchronous processing pipelinesImplement well-known software design patterns to create production grade applicationsShare code between Node.js and the browser and take advantage of full-stack JavaScriptBuild and scale microservices and distributed systems powered by Node.jsUse Node.js in conjunction with other powerful technologies such as Redis, RabbitMQ, ZeroMQ, and LevelDBWho this book is for This book is for developers and software architects who have some prior basic knowledge of JavaScript and Node.js and now want to get the most out of these technologies in terms of productivity, design quality, and scalability. Software professionals with intermediate experience in Node.js and JavaScript will also find valuable the more advanced patterns and techniques presented in this book. This book assumes that you have an intermediate understanding of web application development, databases, and software design principles.

Programmieren mit Ruby CRC Press

This volume constitutes the proceedings of the 18th Asia Simulation Conference, AsiaSim 2018, held in Kyoto, Japan, in August 2018. The 45 revised full papers presented in this volume were carefully reviewed and selected from 90 submissions. The papers are organized in topical sections on modeling and simulation technology; soft computing and machine learning; high performance computing and cloud computing; simulation technology for industry; simulation technology for intelligent society; simulation of instrumentation and control application; computational mathematics and computational science; flow simulation; visualization and computer vision to support simulation.

Certified Kubernetes Application Developer (CKAD) Study Guide Pearson Deutschland GmbH

Explore the core functionality of containerizing your applications and making them production-ready Key FeaturesGrasp basic to advanced Docker

concepts with this comprehensive guideGet acquainted with Docker containers, Docker images, orchestrators, cloud integration, and networkingLearn to simplify dependencies and deploy and test containers in productionBook Description Containers enable you to package an application with all the components it needs, such as libraries and other dependencies, and ship it as one package. Docker containers have revolutionized the software supply chain in both small and large enterprises. Starting with an introduction to Docker fundamentals and setting up an environment to work with it, you'll delve into concepts such as Docker containers, Docker images, and Docker Compose. As you progress, the book will help you explore deployment, orchestration, networking, and security. Finally, you'll get to grips with Docker functionalities on public clouds such as Amazon Web Services (AWS), Azure, and Google Cloud Platform (GCP), and learn about Docker Enterprise Edition features. Additionally, you'll also discover the benefits of increased security with the use of containers. By the end of this Docker book, you'll be able to build, ship, and run a containerized, highly distributed application on Docker Swarm or Kubernetes, running on-premises or in the cloud. What you will learnContainerize your traditional or microservice-based applicationsDevelop, modify, debug, and test an application running inside a containerShare or ship your application as an immutable container imageBuild a Docker Swarm and a Kubernetes cluster in the cloudRun a highly distributed application using Docker Swarm or KubernetesUpdate or rollback a distributed application with zero downtimeSecure your applications with encapsulation, networks, and secretsTroubleshoot a containerized, highly distributed application in the cloudWho this book is for This book is for Linux professionals, system administrators, operations engineers, DevOps engineers, and developers or stakeholders who are interested in getting started with Docker from scratch. No prior experience with Docker containers is required. Users with a Linux system would be able to take full advantage of this book.

HTTP/2 in Action Simon and Schuster
Choose the smarter way to learn about containerizing your applications and running them in production. Key FeaturesDeploy and manage highly scalable, containerized applications with KubernetesBuild high-availability Kubernetes clustersSecure your applications via encapsulation, networks, and secretsBook Description Kubernetes is an open source orchestration platform for managing containers in a cluster environment. This Learning Path introduces you to the world of containerization, in addition to providing you with an overview of Docker fundamentals. As you progress, you will be able to understand how Kubernetes works with containers. Starting with creating Kubernetes clusters and running applications with proper authentication and authorization, you'll learn how to create high-availability Kubernetes clusters on Amazon Web Services (AWS), and also learn how to use kubeconfig to manage different clusters. Whether it is learning about Docker containers and Docker Compose, or building a continuous delivery pipeline for your application, this Learning Path will equip you with all the right tools and techniques to get started with containerization. By the end of this Learning Path, you will have gained hands-on experience of working with Docker containers and orchestrators, including SwarmKit and Kubernetes. This Learning Path includes content from the following Packt products: Kubernetes Cookbook - Second Edition by Hideto Saito, Hui-Chuan Chloe Lee, and Ke-Jou Carol HsuLearn Docker - Fundamentals of Docker 18.x by Gabriel N. SchenkerWhat you will learnBuild your own container clusterRun a highly distributed application with Docker Swarm or KubernetesUpdate or rollback a distributed application with zero downtimeContainerize your traditional or microservice-based applicationBuild a continuous delivery pipeline for your applicationTrack metrics and logs for every container in your clusterImplement container orchestration to streamline deploying and managing applicationsWho this book is for This beginner-level Learning Path is designed for system administrators, operations engineers, DevOps engineers, and developers who want to get started with Docker and Kubernetes. Although no prior experience with Docker is required, basic knowledge of Kubernetes and containers will be helpful.

Google Cloud for DevOps Engineers Packt Publishing Ltd
The free/open source approach has grown from a minor activity to become a significant producer of robust, task-orientated software for a wide variety of situations and applications. To life science informatics groups, these systems present an appealing proposition - high quality software at a very attractive price. Open source software in life science research considers how industry and applied research groups have embraced these resources, discussing practical implementations that address real-world business problems. The book is divided into four parts. Part one looks at laboratory data management and chemical informatics, covering software such as Bioclipse, OpenTox, ImageJ and KNIME. In part two, the focus turns to genomics and bioinformatics tools, with chapters examining GenomicsTools and EBI Atlas software, as well as the practicalities of setting up an 'omics' platform and managing large volumes of data. Chapters in part three examine information and knowledge management, covering a range of topics including software for web-based collaboration, open source search and visualisation technologies for scientific business applications, and specific software such as DesignTracker and Utopia Documents. Part four looks at semantic technologies such as Semantic MediaWiki, TripleMap and Chem2Bio2RDF, before part five examines clinical analytics, and validation and regulatory compliance of free/open source software. Finally, the book concludes by looking at future perspectives and the economics and free/open source software in industry. Discusses a broad range of applications from a variety of sectors Provides a unique perspective on work normally performed behind closed doors Highlights the criteria used to compare and assess different approaches to solving problems

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