Using Docker Developing And Deploying Software Wi

Deployment with Docker Srdjan Grubor.2017-11-22 A practical guide to rapidly and efficiently mastering Docker containers, along with tips and tricks learned in the field. About This Book Use Docker containers, horizontal node scaling, modern orchestration tools (Docker Swarm, Kubernetes, and Mesos) and Continuous Integration/Continuous Delivery to manage your infrastructure. Increase service density by turning often-idle machines into hosts for numerous Docker services. Learn what it takes to build a true container infrastructure that is scalable, reliable, and resilient in the face of increased complexities from using container infrastructures. Find out how to identify, debug, and mitigate most real-world, undocumented issues when deploying your own Docker infrastructure. Learn tips and tricks of the trade from existing Docker infrastructures running in production environments. Who This Book Is For This book is aimed at system administrators, developers, DevOps engineers, and software engineers who want to get concrete, hands-on experience deploying multi-tier web applications and containerized microservices using Docker. This book is also for anyone who has worked on deploying services in some fashion and wants to take their small-scale setups to the next level (or simply to learn more about the process). What You Will Learn Set up a working development environment and create a simple web service to demonstrate the basics Learn how to make your service more usable by adding a database and an app server to process logic Add resilience to your services by learning how to horizontally scale with a few containers on a single node Master layering isolation and messaging to simplify and harden the connectivity between containers Learn about numerous issues encountered at scale and their workarounds, from the kernel up to code versioning Automate the most important parts of your infrastructure with continuous integration In Detail Deploying Docker into production is considered to be one of the major pain points in developing large-scale infrastructures, and the documentation available online leaves a lot to be desired. With this book, you will learn everything you wanted to know to effectively scale your deployments globally and build a resilient, scalable, and containerized cloud platform for your own use. The book starts by introducing you to the containerization ecosystem with some concrete and easy-to-digest examples; after that, you will delve into examples of launching multiple instances of the same container. From there, you will cover orchestration, multi-node setups, volumes, and almost every relevant component of this new approach to deploying services. Using intertwined approaches, the book will cover battle-tested tooling, or issues likely to be encountered in real-world scenarios, in detail. You will also learn about the other supporting components required for a true PaaS deployment and discover common options to tie the whole infrastructure together. At the end of the book, you learn to build a small, but functional, PaaS (to appreciate the power of the containerized service approach) and continue to explore real-world approaches to implementing even larger global-scale services. Style and approach This in-depth learning guide shows you how to deploy your applications in production using Docker (from the basic steps to advanced concepts) and how to overcome challenges in Docker-based infrastructures. The book also covers practical use-cases in real-world examples, and provides tips and tricks on the various topics. *Docker in Action, Second Edition* Jeff Nickoloff,Stephen Kuenzli.2019-12-10 Summary Docker in Action, Second Edition teaches you the skills and knowledge you need to create, deploy, and manage applications hosted in Docker containers. This bestseller has been fully updated with new examples, best practices, and a number of entirely new chapters. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology The idea behind Docker is simple—package just your application and its dependencies into a lightweight, isolated virtual environment called a container. Applications running inside containers are easy to install, manage, and remove. This simple idea is used in everything from creating safe, portable

development environments to streamlining deployment and scaling for microservices. In short, Docker is everywhere. About the book Docker in Action, Second Edition teaches you to create, deploy, and manage applications hosted in Docker containers running on Linux. Fully updated, with four new chapters and revised best practices and examples, this second edition begins with a clear explanation of the Docker model. Then, you go hands-on with packaging applications, testing, installing, running programs securely, and deploying them across a cluster of hosts. With examples showing how Docker benefits the whole dev lifecycle, you'll discover techniques for everything from dev-and-test machines to full-scale cloud deployments. What's inside Running software in containers Packaging software for deployment Securing and distributing containerized applications About the reader Written for developers with experience working with Linux. About the author Jeff Nickoloff and Stephen Kuenzli have designed, built, deployed, and operated highly available, scalable software systems for nearly 20 years.

The The Complete Kubernetes Guide Jonathan Baier,Gigi Sayfan,Jesse White.2019-05-20 Design, deploy, and manage large-scale containers using Kubernetes Key FeaturesGain insight into the latest features of Kubernetes, including Prometheus and API aggregationDiscover ways to keep your clusters always available, scalable, and up-to-dateMaster the skills of designing and deploying large clusters on various cloud platformsBook Description If you are running a number of containers and want to be able to automate the way they're managed, it can be helpful to have Kubernetes at your disposal. This Learning Path guides you through core Kubernetes constructs, such as pods, services, replica sets, replication controllers, and labels. You'll get started by learning how to integrate your build pipeline and deployments in a Kubernetes cluster. As you cover more chapters in the Learning Path, you'll get up to speed with orchestrating updates behind the scenes, avoiding downtime on your cluster, and dealing with underlying cloud provider instability in your cluster. With the help of real-world use cases, you'll also explore options for network configuration, and understand how to set up, operate, and troubleshoot various Kubernetes networking plugins. In addition to this, you'll gain insights into custom resource development and utilization in automation and maintenance workflows. By the end of this Learning Path, you'll have the expertise you need to progress from an intermediate to an advanced level of understanding Kubernetes. This Learning Path includes content from the following Packt products: Getting Started with Kubernetes - Third Edition by Jonathan Baier and Jesse WhiteMastering Kubernetes - Second Edition by Gigi SayfanWhat you will learnDownload, install, and configure the Kubernetes code baseCreate and configure custom Kubernetes resources Use third-party resources in your automation workflowsDeliver applications as standard packagesSet up and access monitoring and logging for Kubernetes clustersSet up external access to applications running in the clusterManage and scale Kubernetes with hosted platforms on Amazon Web Services (AWS), Azure, and Google Cloud Platform (GCP)Run multiple clusters and manage them from a single control planeWho this book is for If you are a developer or a system administrator with an intermediate understanding of Kubernetes and want to master its advanced features, then this book is for you. Basic knowledge of networking is required to easily understand the concepts explained.

DevOps: Puppet, Docker, and Kubernetes Thomas Uphill,John Arundel,Neependra Khare,Hideto Saito,Hui-Chuan Chloe Lee,Ke-Jou Carol Hsu.2017-03-31 Get hands-on recipes to automate and manage Linux containers with the Docker 1.6 environment and jump-start your Puppet development About This Book Successfully deploy DevOps with proven solutions and recipes Automate your infrastructure with Puppet and combine powerful DevOps methods Deploy and manage highly scalable applications using Kubernetes streamline the way you manage your applications Who This Book Is For This Learning Path is for developers, system administrators, and DevOps engineers who want to use Puppet, Docker, and Kubernetes in their development, QA, or production environments. This Learning Path assumes experience with Linux administration and requires some experience with command-line usage and basic text file editing. What You Will Learn Discover how to build high availability Kubernetes clusters Deal with inherent issues with container virtualization and container concepts Create services with Docker to enable the swift development and deployment of

applications Make optimum use of Docker in a testing environment Create efficient manifests to streamline your deployments Automate Puppet master deployment using Git hooks, r10k, and PuppetDB In Detail With so many IT management and DevOps tools on the market, both open source and commercial, it's difficult to know where to start. DevOps is incredibly powerful when implemented correctly, and here's how to get it done.This Learning Path covers three broad areas: Puppet, Docker, and Kubernetes. This Learning Path is a large resource of recipes to ease your daily DevOps tasks. We begin with recipes that help you develop a complete and expert understanding of Puppet's latest and most advanced features. Then we provide recipes that help you efficiently work with the Docker environment. Finally, we show you how to better manage containers in different scenarios in production using Kubernetes. This course is based on these books: Puppet Cookbook, Third Edition Docker Cookbook Kubernetes Cookbook Style and approach This easy-to-follow tutorial-style guide teaches you precisely how to configure complex systems in Puppet and manage your containers using Kubernetes.

Docker and Kubernetes for Java Developers Jaroslaw Krochmalski.2017-08-30 Leverage the lethal combination of Docker and Kubernetes to automate deployment and management of Java applications About This Book Master using Docker and Kubernetes to build, deploy and manage Java applications in a jiff Learn how to create your own Docker image and customize your own cluster using Kubernetes Empower the journey from development to production using this practical guide. Who This Book Is For The book is aimed at Java developers who are eager to build, deploy, and manage applications very quickly using container technology. They need have no knowledge of Docker and Kubernetes. What You Will Learn Package Java applications into Docker images Understand the running of containers locally Explore development and deployment options with Docker Integrate Docker into Maven builds Manage and monitor Java applications running on Kubernetes clusters Create Continuous Delivery pipelines for Java applications deployed to Kubernetes In Detail Imagine creating and testing Java EE applications on Apache Tomcat Server or Wildfly Application server in minutes along with deploying and managing Java applications swiftly. Sounds too good to be true? But you have a reason to cheer as such scenarios are only possible by leveraging Docker and Kubernetes. This book will start by introducing Docker and delve deep into its networking and persistent storage concepts. You will then proceed to learn how to refactor monolith application into separate services by building an application and then packaging it into Docker containers. Next, you will create an image containing Java Enterprise Application and later run it using Docker. Moving on, the book will focus on Kubernetes and its features and you will learn to deploy a Java application to Kubernetes using Maven and monitor a Java application in production. By the end of the book, you will get hands-on with some more advanced topics to further extend your knowledge about Docker and Kubernetes. Style and approach An easy-to-follow, practical guide that will help Java developers develop, deploy, and manage Java applications efficiently.

The The Docker Workshop Vincent Sesto,Onur Yılmaz,Sathsara Sarathchandra,Aric Renzo,Engy Fouda.2020-10-29 Get started with Docker on your local machine and progress towards deploying useful applications in production with this simplified, practical guide Key FeaturesGet a working understanding of Docker containers by incorporating them in your development processComplete interesting exercises to learn how to secure and control access of your containersWork with advanced features of Docker to make your development process smoother and reliable Book Description No doubt Docker Containers are the future of highly-scalable software systems and have cost and runtime efficient supporting infrastructure. But learning it might look complex as it comes with many technicalities. This is where The Docker Workshop will help you. Through this workshop, you'll quickly learn how to work with containers and Docker with the help of practical activities. The workshop starts with Docker containers, enabling you to understand how it works. You'll run third party Docker images and also create your own images using Dockerfiles and multi-stage Dockerfiles. Next, you'll create environments for Docker images, and expedite your deployment and testing process with Continuous Integration. Moving ahead, you'll tap into interesting topics and learn how

to implement production-ready environments using Docker Swarm. You'll also apply best practices to secure Docker images and to ensure that production environments are running at maximum capacity. Towards the end, you'll gather skills to successfully move Docker from development to testing, and then into production. While doing so, you'll learn how to troubleshoot issues, clear up resource bottlenecks and optimize the performance of services. By the end of this workshop, you'll be able to utilize Docker containers in real-world use cases. What you will learnGet a solid understanding of how Docker containers workNetwork Docker images and environments to allow communication between servicesBuild and publish docker images from a CI/CD pipelineUse Docker Swarm to implement production-ready environmentsFind out how to replace Swarm with Kubernetes clustersExtend your Docker images with PluginsWho this book is for This is the right learning asset if you are a developer or a beginner who wants to get a practical understanding of Docker containers. If you have experienced in running command shells or knowledge of IntelliJ, atom, or VSCode editors, then you will grasp the topics covered here quickly.

Developing with Docker Jaroslaw Krochmalski.2016-11-30 Change the way your organization deploys software at scale with this fast-paced guide to the world of Docker About This Book Cut through the noise and in simple terms learn to package your applications and test, ship, and scale your containers Find and build images and successfully run your programs within containers Build, deploy, and test your Docker containers and put them to work in production Who This Book Is For This book is for IT professionals, system administrators, and DevOps professionals or anyone looking to quickly develop and deploy software to production at scale. If you are interested in Docker, DevOps, or containers in general, don't look any further. What You Will Learn Understand Docker's architecture Build, ship, and run distributed applications Deploy, automate, and manage the execution of applications within Docker Scale and virtualize images and containers Utilize the networking features that Docker offers Use repositories to store and retrieve images In Detail This fast-paced practical guide will get you up and running with Docker. Using Docker, you will be able to build, ship, and run many distributed applications in real time. You will start with quickly installing Docker and start working with images and containers. We will present different types of containers and their applications, and show you how to find and build images. You will learn how you can contribute to the image repository by publishing different images. This will familiarize you with the image building process and you will be able to successfully run your programs within containers. By finishing this book, you will be well equipped in deploying your applications using Docker and will have a clear understanding of concepts, techniques, and practical methods to get it running in production systems. Style and approach This book takes a fast-paced practical approach that quickly gets you up and running with Docker so that you spend less time learning and more time deploying Docker containers effectively. This book contains a mix of concepts, practical examples, techniques, and the most up-to-date content to run things effectively in production. We'll show you the easiest way to speed up your development and deployment with Docker.

Docker for Dummies in Real World Benjamin Young.2017-05-13 Docker is the latest buzz-word.By reading online documents, it sounds easy to grasp these concepts, but there are some subtleness need to be aware especiallyfor those who are not that techy/geeky.The books could be a quick guide on how to use and understand Docker in the real life.Readers should have some very basic knowledge of Linux/Unix, scripting etc.Free lifetime upgrade for later editions (as an electronic copy). Please contact author for this.

Docker Cookbook Ken Cochrane,Jeeva S. Chelladhurai,Neependra K Khare.2018-08-31 Leverage Docker to deploying software at scale Key Features Leverage practical examples to manage containers efficiently Integrate with orchestration tools such as Kubernetes for controlled deployments Learn to implement best practices on improving efficiency and security of containers Book Description Docker is an open source platform for building, shipping, managing, and securing containers. Docker has become the tool of choice for people willing to work with containers. Since the market is moving toward containerization, Docker will definitely have a big role to play in the future tech market. This book starts with setting up Docker in different environment, and helps you

learn how to work with Docker images. Then, you will take a deep dive into network and data management for containers. The book explores the RESTful APIs provided by Docker to perform different actions, such as image/container operations. The book then explores logs and troubleshooting Docker to solve issues and bottlenecks. You will gain an understanding of Docker use cases, orchestration, security, ecosystems, and hosting platforms to make your applications easy to deploy, build, and collaborate on. The book covers the new features of Docker 18.xx (or later), such as working with AWS and Azure, Docker Engine, Docker Swarm, Docker Compose, and so on. By the end of this book, you will have gained hands-on experience of finding quick solutions to different problems encountered while working with Docker. What you will learn Install Docker on various platforms Work with Docker images and containers Container networking and data sharing Docker APIs and language bindings Various PaaS solutions for Docker Implement container orchestration using Docker Swarm and Kubernetes Container security Docker on various clouds Who this book is for Book is targeted towards developers, system administrators, and DevOps engineers who want to use Docker in his/her development, QA, or production environments. It is expected that the reader has basic Linux/Unix skills such as installing packages, editing files, managing services, and so on. Any experience in virtualization technologies such as KVM, XEN, and VMware will be an added advantage

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.

Hands-On Kubernetes on Windows Piotr Tylenda.2020-03-31 Build and deploy scalable cloud applications using Windows containers and Kubernetes Key FeaturesRun, deploy, and orchestrate containers on the Windows platform with this Kubernetes bookUse Microsoft SQL Server 2019 as a data store to deploy Kubernetes applications written in .NET FrameworkSet up a Kubernetes development environment and deploy clusters with Windows Server 2019 nodesBook Description With the adoption of Windows containers in Kubernetes, you can now fully leverage the flexibility and robustness of the Kubernetes container orchestration system in the Windows ecosystem. This support will enable you to create new Windows applications and migrate existing ones to the cloud-native stack with the same ease as for Linux-oriented cloud applications. This practical guide takes

you through the key concepts involved in packaging Windows-distributed applications into containers and orchestrating these using Kubernetes. You'll also understand the current limitations of Windows support in Kubernetes. As you advance, you'll gain hands-on experience deploying a fully functional hybrid Linux/Windows Kubernetes cluster for development, and explore production scenarios in on-premises and cloud environments, such as Microsoft Azure Kubernetes Service. By the end of this book, you'll be well-versed with containerization, microservices architecture, and the critical considerations for running Kubernetes in production environments successfully. What you will learnUnderstand containerization as a packaging format for applicationsCreate a development environment for Kubernetes on WindowsGrasp the key architectural concepts in KubernetesDiscover the current limitations of Kubernetes on the Windows platformProvision and interact with a Kubernetes cluster from a Windows machineCreate hybrid Windows Kubernetes clusters in on-premises and cloud environmentsWho this book is for This book is for software developers, system administrators, DevOps engineers, and architects working with Kubernetes on Windows, Windows Server 2019, and Windows containers. Knowledge of Kubernetes as well as the Linux environment will help you get the most out of this book.

Hands-On Docker for Microservices with Python Jaime Buelta.2019-11-22 A step-by-step guide to building microservices using Python and Docker, along with managing and orchestrating them with Kubernetes Key FeaturesLearn to use Docker containers to create, operate, and deploy your microservicesCreate workflows to manage independent deployments on coordinating services using CI and GitOps through GitHub, Travis CI, and FluxDevelop a REST microservice in Python using the Flask framework and Postgres databaseBook Description Microservices architecture helps create complex systems with multiple, interconnected services that can be maintained by independent teams working in parallel. This book guides you on how to develop these complex systems with the help of containers. You'll start by learning to design an efficient strategy for migrating a legacy monolithic system to microservices. You'll build a RESTful microservice with Python and learn how to encapsulate the code for the services into a container using Docker. While developing the services, you'll understand how to use tools such as GitHub and Travis CI to ensure continuous delivery (CD) and continuous integration (CI). As the systems become complex and grow in size, you'll be introduced to Kubernetes and explore how to orchestrate a system of containers while managing multiple services. Next, you'll configure Kubernetes clusters for production-ready environments and secure them for reliable deployments. In the concluding chapters, you'll learn how to detect and debug critical problems with the help of logs and metrics. Finally, you'll discover a variety of strategies for working with multiple teams dealing with different microservices for effective collaboration. By the end of this book, you'll be able to build production-grade microservices as well as orchestrate a complex system of services using containers. What you will learnDiscover how to design, test, and operate scalable microservicesCoordinate and deploy different services using KubernetesUse Docker to construct scalable and manageable applications with microservicesUnderstand how to monitor a complete system to ensure early detection of problemsBecome well versed with migrating from an existing monolithic system to a microservice oneUse load balancing to ensure seamless operation between the old monolith and the new serviceWho this book is for This book is for developers, engineers, or software architects who are trying to move away from traditional approaches for building complex multi-service systems by adopting microservices and containers. Although familiarity with Python programming is assumed, no prior knowledge of Docker is required.

Accelerating Development Velocity Using Docker Kinnary Jangla.2018-11-05 Discover how a software engineer can leverage Docker in order to expedite development velocity. This book focuses on the fundamental concepts this program is built upon and explores how it can help you get your services up and running inside Docker containers. You'll also review tips on how to debug microservices applications that run inside Docker containers. Tech companies are now developing complex softwares that are comprised of multiple services running on different platforms, and Docker has become an essential part of coordinating the communication between these services and

platforms. This book addresses problems caused by drifting microservices, debugging across services, inconsistent environments across machines, and coordinating development of machine learning systems between a team of developers, etc. Accelerating Development Velocity Using Docker puts you on the path to transforming your complex systems into more efficient ones. What You'll Learn Setup Docker and employ quick solutions to road blocks Review challenges associated with debugging microservices that sit behind a complex application Leverage Docker features to seamlessly get multiple microservices up and running Debug inside a Docker container Review advanced use cases of Docker that can help consistency of development environments· Who This Book Is For Ideal for new to mid-level infrastructure engineers who want to learn how to make their development environments efficient across their and cross teams, or for students who aspire to learn basics of how to debug distributed systems and how to develop efficient applications.

Docker Deep Dive Nigel Poulton.2023-07-20 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.

Docker: Up and Running Dr. Gabriel Nicolas Schenker.2023-04-20 A hands-on guide that will help you compose, package, deploy, and manage applications with ease KEY FEATURES ● Get familiar and work with key components of Docker. ● Learn how to automate CI/CD pipeline using Docker and Jenkins. ● Uncover the top Docker interview questions to crack your next interview. DESCRIPTION Containers are one of the disruptive technologies in IT that have fundamentally changed how software is build, shipped, and run today. If you want to pursue a career as a Software engineer or a DevOps professional, then this book is for you. The book starts by introducing Docker and teaches you how to write and run commands in Docker. The book then explains how to create Docker files, images, and containers, and while doing so, you get a stronghold of Docker tools like Docker Images, Dockerfiles, and Docker Compose. The book will also help you learn how to work with existing container images and how to build, test, and ship your containers containing your applications. Furthermore, the book will help you to deploy and run your containerized applications on Kubernetes and in the cloud. By the end of the book, you will be able to build and deploy

enterprise applications with ease. WHAT YOU WILL LEARN ● Learn how to test and debug containerized applications. ● Understand how container orchestration works in Kubernetes. ● Monitor your Docker container's log using Prometheus and Grafana. ● Deploy, update, and scale applications into a Kubernetes cluster using different strategies. ● Learn how to use Snyk to scan vulnerabilities in Docker. WHO THIS BOOK IS FOR This book is for System administrators, Software engineers, DevOps aspirants, Application engineers, and Application developers. TABLE OF CONTENTS 1. Explaining Containers and their Benefits 2. Setting Up Your Environment 3. Getting Familiar with Containers 4. Using Existing Docker Images 5. Creating Your Own Docker Image 6. Demystifying Container Networking 7. Managing Complex Apps with Docker Compose 8. Testing and Debugging Containerized Applications 9. Establishing an Automated Build Pipeline 10. Orchestrating Containers 11. Leveraging Docker Logs to Provide Insight into Your Apps 12. Enabling Zero Downtime Deployments 13. Securing Containers

Advances in Cyber Security and Intelligent Analytics Abhishek Verma,Jitendra Kumar,Hari Mohan Gaur,Vrijendra Singh,Valentina Emilia Balas.2022-12-21 We live in a digital world, where we use digital tools and smart devices to communicate over the Internet. In turn, an enormous amount of data gets generated. The traditional computing architectures are inefficient in storing and managing this massive amount of data. Unfortunately, the data cannot be ignored as it helps businesses to make better decisions, solve problems, understand performance, improve processes, and understand customers. Therefore, we need modern systems capable of handling and managing data efficiently. In the past few decades, many distributed computing paradigms have emerged, and we have noticed a substantial growth in the applications based on such emerging paradigms. Some well-known emerging computing paradigms include cloud computing, fog computing, and edge computing, which have leveraged the increase in the volume of data being generated every second. However, the distributed computing paradigms face critical challenges, including network management and cyber security. We have witnessed the development of various networking models—IoT, SDN, and ICN—to support modern systems requirements. However, they are undergoing rapid changes and need special attention. The main issue faced by these paradigms is that traditional solutions cannot be directly applied to address the challenges. Therefore, there is a significant need to develop improved network management and cyber security solutions. To this end, this book highlights the challenges faced by emerging paradigms and presents the recent developments made to address the challenges. More specifically, it presents a detailed study on security issues in distributed computing environments and their possible solutions, followed by applications of medical IoT, deep learning, IoV, healthcare, etc.

Learn Docker - Fundamentals of Docker 18.x Gabriel N. Schenker.2018-04-26 Enhance your software deployment workflow using containers Key Features ●Get up-and-running with basic to advanced concepts of Docker ●Get acquainted with concepts such as Docker containers, Docker images, orchestrators and so on. ●Practical test-based approach to learning a prominent containerization tool Book Description Docker containers have revolutionized the software supply chain in small and big enterprises. Never before has a new technology so rapidly penetrated the top 500 enterprises worldwide. Companies that embrace containers and containerize their traditional mission-critical applications have reported savings of at least 50% in total maintenance cost and a reduction of 90% (or more) of the time required to deploy new versions of those applications. Furthermore they are benefitting from increased security just by using containers as opposed to running applications outside containers. This book starts from scratch, introducing you to Docker fundamentals and setting up an environment to work with it. Then we delve into concepts such as Docker containers, Docker images, Docker Compose, and so on. We will also cover the concepts of deployment, orchestration, networking, and security. Furthermore, we explain Docker functionalities on public clouds such as AWS. By the end of this book, you will have hands-on experience working with Docker containers and orchestrators such as SwarmKit and Kubernetes. What you will learn ●Containerize your traditional or microservice-based application ●Share or ship your application as an immutable container image ●Build a Docker swarm and a Kubernetes cluster in the cloud ●Run a

highly distributed application using Docker Swarm or Kubernetes ●Update or rollback a distributed application with zero downtime ●Secure your applications via encapsulation, networks, and secrets ●Know your options when deploying your containerized app into the cloud Who this book is for This book is targeted at 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.

Learning Docker Jeeva S. Chelladhurai,Vinod Singh,Pethuru Raj.2017-05-31 Docker lets you create, deploy, and manage your applications anywhere at anytime – flexibility is key so you can deploy stable, secure, and scalable app containers across a wide variety of platforms and delve into microservices architecture About This Book This up-to-date edition shows how to leverage Docker's features to deploy your existing applications Learn how to package your applications with Docker and build, ship, and scale your containers Explore real-world examples of securing and managing Docker containers Who This Book Is For This book is ideal for developers, operations managers, and IT professionals who would like to learn about Docker and use it to build and deploy container-based apps. No prior knowledge of Docker is expected. What You Will Learn Develop containerized applications using the Docker version 17.03 Build Docker images from containers and launch them Develop Docker images and containers leveraging Dockerfiles Use Docker volumes to share data Get to know how data is shared between containers Understand Docker Jenkins integration Gain the power of container orchestration Familiarize yourself with the frequently used commands such as docker exec, docker ps, docker top, and docker stats In Detail Docker is an open source containerization engine that offers a simple and faster way for developing and running software. Docker containers wrap software in a complete filesystem that contains everything it needs to run, enabling any application to be run anywhere – this flexibily and portabily means that you can run apps in the cloud, on virtual machines, or on dedicated servers. This book will give you a tour of the new features of Docker and help you get started with Docker by building and deploying a simple application. It will walk you through the commands required to manage Docker images and containers. You'll be shown how to download new images, run containers, list the containers running on the Docker host, and kill them. You'll learn how to leverage Docker's volumes feature to share data between the Docker host and its containers – this data management feature is also useful for persistent data. This book also covers how to orchestrate containers using Docker compose, debug containers, and secure containers using the AppArmor and SELinux security modules. Style and approach This step-by-step guide will walk you through the features and use of Docker, from Docker software installation to the impenetrable security of containers.

Docker for Beginners Michael Brian.2020-02-26 If you want to Learn Everything about Docker, this Book is for you!Docker is a software development platform and a virtualization technology that makes it easy for us to develop and deploy apps inside of neatly packaged virtual containerized environments, which means that apps run the same, no matter where they are or what machine they are running on. Docker containers can be deployed to just about any machine without any compatibility issues, so your software stays system agnostic, making the software simpler to use, less work to develop, easier to maintain and deploy. These containers running on your computer or server act like little microcomputers with very specific jobs, each with their operating system and their isolated CPU processes, memory, and network resources. And because of this, they can be easily added, removed, stopped and started again without affecting each other or the host machine. This is a preview of what you will learn: → What containers are → What Docker is → Why you might need it → What it can do for you → How to run a Docker container → How to build your own Docker image → Networking in Docker → How to use Docker compose → What Docker registry is → How to deploy your own private registry → Docker for Windows and Mac → Introduction to container orchestration tools like Docker swarm and Kubernetes → And much more! Scroll up and click the BUY NOW button to get started.

Mastering Docker Cybellium Ltd. Unleash the Potential of Containerization for Modern Applications In the dynamic landscape of software development and deployment, containerization

has emerged as a transformative technology. Mastering Docker is your ultimate guide to understanding and harnessing the power of Docker—a platform that simplifies the way you build, ship, and run applications across various environments with unparalleled efficiency. About the Book: As applications become more complex and require flexible deployment strategies, Docker has become an essential tool for developers and IT professionals alike. Mastering Docker provides a comprehensive exploration of Docker—a revolutionary containerization platform. This book caters to both beginners and experienced practitioners looking to enhance their containerization skills. Key Features: Docker Fundamentals: Begin by grasping the core concepts of Docker. Understand how containers work and how they revolutionize the deployment process. Containerization Benefits: Dive into the advantages of containerization, including isolation, portability, and scalability. Learn how Docker streamlines the development and deployment lifecycle. Docker Images and Containers: Explore the creation of Docker images and containers. Learn how to package applications, dependencies, and configuration into portable containers. Orchestration with Docker Compose: Grasp the art of orchestrating multi-container applications using Docker Compose. Learn how to define and manage complex application setups. Docker Networking: Delve into Docker networking concepts. Understand how containers communicate with each other and with external systems using various network modes. Container Security: Explore best practices for securing Docker containers. Learn about isolation, image scanning, and techniques to minimize vulnerabilities. Scaling and Load Balancing: Grasp the techniques for scaling containerized applications using Docker Swarm and Kubernetes. Learn how to distribute workloads and ensure high availability. Continuous Integration and Deployment: Understand how Docker integrates into CI/CD pipelines. Explore strategies for automating testing, building, and deploying containers. Why This Book Matters: In an era where agility, scalability, and reliability are paramount, mastering Docker offers a competitive advantage. Mastering Docker empowers developers, DevOps engineers, and technology enthusiasts to leverage Docker's potential, enabling them to build, deploy, and manage applications that thrive in diverse environments. Unleash the Power of Containerization: In the landscape of modern software development, Docker has become synonymous with streamlined deployment and scalability. Mastering Docker equips you with the knowledge needed to leverage Docker's capabilities, enabling you to build efficient, portable, and scalable applications that thrive in the era of containerization. Whether you're an experienced practitioner or new to the field, this book will guide you in building a solid foundation for effective containerization. Your journey to mastering Docker starts here.

Microservices and Containers Parminder Singh Kocher.2018-03-16 Transition to Microservices and DevOps to Transform Your Software Development Effectiveness Thanks to the tech sector’s latest game-changing innovations—the Internet of Things (IoT), software-enabled networking, and software as a service (SaaS), to name a few—there is now a seemingly insatiable demand for platforms and architectures that can improve the process of application development and deployment. In Microservices and Containers, longtime systems architect and engineering team leader Parminder Kocher analyzes two of the hottest new technology trends: microservices and containers. Together, as Kocher demonstrates, microservices and Docker containers can bring unprecedented agility and scalability to application development and deployment, especially in large, complex projects where speed is crucial but small errors can be disastrous. Learn how to leverage microservices and Docker to drive modular architectural design, on-demand scalability, application performance and reliability, time-to-market, code reuse, and exponential improvements in DevOps effectiveness. Kocher offers detailed guidance and a complete roadmap for transitioning from monolithic architectures, as well as an in-depth case study that walks the reader through the migration of an enterprise-class SOA system. Understand how microservices enable you to organize applications into standalone components that are easier to manage, update, and scale Decide whether microservices and containers are worth your investment, and manage the organizational learning curve associated with them Apply best practices for interprocess communication among microservices Migrate monolithic systems in an orderly fashion Understand Docker containers,

installation, and interfaces Network, orchestrate, and manage Docker containers effectively Use Docker to maximize scalability in microservices-based applications Apply your learning with an in-depth, hands-on case study Whether you are a software architect/developer or systems professional looking to move on from older approaches or a manager trying to maximize the business value of these technologies, Microservices and Containers will be an invaluable addition to your library. Register your product at informit.com/register for convenient access to downloads, updates, and/or corrections as they become available.

Essential Docker for ASP.NET Core MVC Adam Freeman.2017-04-06 Find out how to use Docker in your ASP.NET Core MVC applications, and how containers make it easier to develop, deploy and manage those applications in production environments. Packed with examples and practical demonstrations, this book will help you deploy even large-scale, cross-platform web applications from development into production. Best-selling author Adam Freeman takes you on a whirlwind tour of Docker, from creating a consistent development environment for your team to deploying a project and scaling it up in production. By the end of the book, you will have a solid understanding of what Docker does, how it does it and why it is useful when developing and deploying ASP.NET Core MVC applications. What You Will Learn Gain a solid understanding of Docker: what it is, and why you should be using it for your ASP.NET Core MVC applications Use Docker to create a development platform for ASP.NET Core MVC so that applications behave consistently across development and production Use Docker to test, deploy and manage ASP.NET Core MVC containers Use Docker Swarms to scale up applications to cope with large workloads Who This Book Is For ASP.NET Core MVC developers who want to use Docker to containerize and manage their applications

Docker in Action, Second Edition Jeffrey Nickoloff,Stephen Kuenzli.2019-10-28 Summary Docker in Action, Second Edition teaches you the skills and knowledge you need to create, deploy, and manage applications hosted in Docker containers. This bestseller has been fully updated with new examples, best practices, and a number of entirely new chapters. About the technology The idea behind Docker is simple—package just your application and its dependencies into a lightweight, isolated virtual environment called a container. Applications running inside containers are easy to install, manage, and remove. This simple idea is used in everything from creating safe, portable development environments to streamlining deployment and scaling for microservices. In short, Docker is everywhere. About the book Docker in Action, Second Edition teaches you to create, deploy, and manage applications hosted in Docker containers running on Linux. Fully updated, with four new chapters and revised best practices and examples, this second edition begins with a clear explanation of the Docker model. Then, you go hands-on with packaging applications, testing, installing, running programs securely, and deploying them across a cluster of hosts. With examples showing how Docker benefits the whole dev lifecycle, you'll discover techniques for everything from dev-and-test machines to full-scale cloud deployments. What's inside Running software in containers Packaging software for deployment Securing and distributing containerized applications About the reader Written for developers with experience working with Linux. About the author Jeff Nickoloff and Stephen Kuenzli have designed, built, deployed, and operated highly available, scalable software systems for nearly 20 years.

Using Docker Adrian Mouat.2015-12-09 Docker containers offer simpler, faster, and more robust methods for developing, distributing, and running software than previously available. With this hands-on guide, you'll learn why containers are so important, what you'll gain by adopting Docker, and how to make it part of your development process. Ideal for developers, operations engineers, and system administrators—especially those keen to embrace a DevOps approach—Using Docker will take you from Docker and container basics to running dozens of containers on a multi-host system with networking and scheduling. The core of the book walks you through the steps needed to develop, test, and deploy a web application with Docker. Get started with Docker by building and deploying a simple web application Use Continuous Deployment techniques to push your application to production multiple times a day Learn various options and techniques for logging and monitoring multiple containers Examine networking and service discovery: how do containers find each other

and how do you connect them? Orchestrate and cluster containers to address load-balancing, scaling, failover, and scheduling Secure your system by following the principles of defense-in-depth and least privilege

Docker for Rails Developers Rob Isenberg.2019-02-14 Docker does for DevOps what Rails did for web development--it gives you a new set of superpowers. Gone are works on my machine woes and lengthy setup tasks, replaced instead by a simple, consistent, Docker-based development environment that will have your team up and running in seconds. Gain hands-on, real-world experience with a tool that's rapidly becoming fundamental to software development. Go from zero all the way to production as Docker transforms the massive leap of deploying your app in the cloud into a baby step. Docker makes life as a Ruby and Rails developer easier. It helps build, ship, and run your applications, solving major problems you face every day. It allows you to run applications at scale, adding new resources as needed. Docker provides a reliable, consistent environment that's guaranteed to work the same everywhere. Docker lets you do all things DevOps without needing a PhD in infrastructure and operations. Want to spin up a cluster to run your app? No problem. Scale it up or down at will? You bet. Start by running a Ruby script without having Ruby installed on the local machine. Then Dockerize a Rails application and run it using containers, including creating your own custom Docker images tailored for running Rails apps. Describe your app declaratively using Docker Compose, specifying the software dependencies along with everything needed to run the application. Then set up continuous integration, as well as your deployment pipeline and infrastructure. Along the way, find out the best practices for using Docker in development and production environments. This book gives you a solid foundation on using Docker and fitting it into your development workflow and deployment process. What You Need: All you need is a Windows, Mac OS X or Linux machine to do development on. This book guides you through the process of installing Docker. Some basic familiarity with Linux/Unix is recommended even if you're using a Windows machine.

The DevOps 2.4 Toolkit Viktor Farcic.2019-11-28 An exploration of continuous deployment to a Kubernetes cluster, using a wide range of Kubernetes platforms with instructions on how to develop a pipeline on a few of the most commonly used CI/CD platforms. Key FeaturesThe fifth book of DevOps expert Viktor Farcic's bestselling DevOps Toolkit series, with a discussion of the difference between continuous delivery vs. continuous deployment, and which is best for the userGuides readers through the continuous deployment process using Jenkins in a Kubernetes clusterProvides an overview of the best practices for building, testing, and deploying applications through fully automated pipelines.Book Description Building on The DevOps 2.3 Toolkit: Kubernetes, Viktor Farcic brings his latest exploration of the Docker technology as he records his journey to continuously deploying applications with Jenkins into a Kubernetes cluster. The DevOps 2.4 Toolkit: Continuously Deploying Applications with Jenkins to a Kubernetes Cluster is the latest book in Viktor Farcic's series that helps you build a full DevOps Toolkit. This book guides readers through the process of building, testing, and deploying applications through fully automated pipelines. Within this book, Viktor will cover a wide-range of emerging topics, including an exploration of continuous delivery and deployment in Kubernetes using Jenkins. It also shows readers how to perform continuous integration inside these clusters, and discusses the distribution of Kubernetes applications, as well as installing and setting up Jenkins. Work with Viktor and dive into the creation of self-adaptive and self-healing systems within Docker. What you will learnGain an understanding of continuous deploymentLearn how to build, test, and deploy applications into KubernetesExecute continuous integration inside containersWho this book is for Readers with an intermediate level understanding of Kubernetes and hands-on experience.

Docker Demystified Saibal Ghosh.2020-10-03 Build robust and secure applications using the building blocks of Docker Key Features _ Understand the fundamentals of Containers. _ Understand the working of the entire Docker ecosystem. _ Learn how to utilize Docker Networking capabilities to its fullest. _ Learn how to secure Docker Containers. _ Get familiar and work with Docker Enterprise Edition. Description The book starts by introducing Containers and explains how they are different

from virtual machines, and why they are the preferred tool for developing applications. You will understand the working of Images, Containers, and their associated Storage and will see how all the moving parts bind together to work synchronously. The book will then focus on Docker Swarm, the mechanism for orchestrating several running Docker containers. It then delves deeper into Docker Networking. Towards the end, you will learn how to secure your applications, especially by leveraging the native features of Docker Enterprise Edition. What will you learn _ Learn how to use Docker Images. _ Get to know more about Docker Storage. _ Learn how to use Volume plugins in Docker services. _ Learn how to deploy a service to the Swarm. _ Learn how to manage, scale, and maintain containerized applications. Who this book is for This book is for anyone who is looking to learn Docker. It is also useful for professionals who are looking to build and deploy web apps using Docker. Table of Contents 1. Introduction to Containerization and Docker 2. Containers and Images 3. Storage Drivers and Volumes 4. The Container Network Model and the Docker Bridge 5. Docker Swarm 6. Docker Networking 7. Docker Security-1 8. Docker Security-II

Bootstrapping Microservices with Docker, Kubernetes, and Terraform Ashley Davis.2021-03-09 Summary The best way to learn microservices development is to build something! Bootstrapping Microservices with Docker, Kubernetes, and Terraform guides you from zero through to a complete microservices project, including fast prototyping, development, and deployment. You'll get your feet wet using industry-standard tools as you learn and practice the practical skills you'll use for every microservices application. Following a true bootstrapping approach, you'll begin with a simple, familiar application and build up your knowledge and skills as you create and deploy a real microservices project. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Taking microservices from proof of concept to production is a complex, multi-step operation relying on tools like Docker, Terraform, and Kubernetes for packaging and deployment. The best way to learn the process is to build a project from the ground up, and that's exactly what you'll do with this book! About the book In Bootstrapping Microservices with Docker, Kubernetes, and Terraform, author Ashley Davis lays out a comprehensive approach to building microservices. You'll start with a simple design and work layer-by-layer until you've created your own video streaming application. As you go, you'll learn to configure cloud infrastructure with Terraform, package microservices using Docker, and deploy your finished project to a Kubernetes cluster. What's inside Developing and testing microservices applications Working with cloud providers Applying automated testing Implementing infrastructure as code and setting up a continuous delivery pipeline Monitoring, managing, and troubleshooting About the reader Examples are in JavaScript. No experience with microservices, Kubernetes, Terraform, or Docker required. About the author Ashley Davis is a software developer, entrepreneur, stock trader, and the author of Manning's Data Wrangling with JavaScript. Table of Contents 1 Why microservices? 2 Creating your first microservice 3 Publishing your first microservice 4 Data management for microservices 5 Communication between microservices 6 Creating your production environment 7 Getting to continuous delivery 8 Automated testing for microservices 9 Exploring FlixTube 10 Healthy microservices 11 Pathways to scalability

Deploying Rails with Docker, Kubernetes and ECS Pablo Acuña.2016-12-19 Learn how to use the power of Docker and Kubernetes to deploy your Rails applications easily and efficiently. Deploying Rails with Docker, Kubernetes and ECS shows you how to set up the project, push it to DockerHub, manage services and set up an efficient continuous integration environment. Every concept is clearly explained alongside a full Ruby on Rails application deployment. You'll also learn how to deploy via Docker using Amazon EC2 Container Service. Docker and Kubernetes are increasing in popularity every day, but what if you want to leverage their benefits for your Rails application? This is the quick guide you need. What You Will Learn Create a Rails API application using Rails 5 and PostgreSQL, and Dockerize it Write and test templates to run the application with Kubernetes Create a Kubernetes cluster in Amazon Web Services and run your Inspect and troubleshoot problems in the cluster Automatize the the whole deployment process with Jenkins Who This Book Is For This book is for anyone who wants to understand how to effectively deploy a Rails

application using Docker and Kubernetes. You will need to understand Rails and have basic knowledge of what Docker and Kubernetes are used for.

A Developer's Essential Guide to Docker Compose Emmanouil Gkatziouras.2022-10-07 Start defining your infrastructure using Docker Compose and leverage it for everyday development or deployment Key FeaturesDistribute your code in an easier way for developers to get startedSet up complex infrastructure for development and CI/CD purposesDeploy simple multi-container applications using Docker ComposeBook Description Software development is becoming increasingly complex due to the various software components used. Applications need to be packaged with software components to facilitate their operations, making it complicated to run them. With Docker Compose, a single command can set up your application and the needed dependencies. This book starts with an overview of Docker Compose and its usage and then shows how to create an application. You will also get to grips with the fundamentals of Docker volumes and network, along with Compose commands, their purpose, and use cases. Next, you will set up databases for daily usage using Compose and, leveraging Docker networking, you will establish communication between microservices. You will also run entire stacks locally on Compose, simulate production environments, and enhance CI/CD jobs using Docker Compose. Later chapters will show you how to benefit from Docker Compose for production deployments, provision infrastructure on public clouds such as AWS and Azure, and wrap up with Compose deployments on said infrastructure. By the end of this book, you will have learned how to effectively utilize Docker Compose for day-to-day development. What you will learnCreate multi-container applications using Docker ComposeUse Docker Compose for daily developmentConnect microservices leveraging Docker network fundamentalsAdd monitoring to services leveraging PrometheusDeploy to production using Docker ComposeTranslate Compose files to Kubernetes deploymentsWho this book is for This book is for software engineers, developer advocates, and DevOps engineers looking to set up multi-container Docker applications using Compose without the need to set up a Docker orchestration engine. It is also for team leads looking to increase the productivity of an organization's software teams by streamlining the provisioning of complex development environments locally using Docker Compose. Readers are expected to understand containerization and must possess fundamental Docker knowledge to get started with this book.

Docker Cookbook Sébastien Goasguen.2015-11-04 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.--

The Kubernetes Bible Nassim Kebbani,Piotr Tylenda,Russ McKendrick.2022-02-24 Get up and running with Kubernetes 1.19 and simplify the way you build, deploy, and maintain scalable distributed systems Key FeaturesDesign and deploy large clusters on various cloud platformsExplore containerized application deployment, debugging, and recovery with the latest Kubernetes version 1.19Become well-versed with advanced Kubernetes topics such as traffic routing or Pod autoscaling and schedulingBook Description With its broad adoption across various industries, Kubernetes is helping engineers with the orchestration and automation of container deployments on a large scale, making it the leading container orchestration system and the most popular choice for running containerized applications. This Kubernetes book starts with an introduction to Kubernetes and containerization, covering the setup of your local development environment and the roles of the most important Kubernetes components. Along with covering the core concepts necessary to make the most of your infrastructure, this book will also help you get acquainted with the fundamentals of Kubernetes. As you advance, you'll learn how to manage Kubernetes clusters on cloud platforms, such as Amazon Web Services (AWS), Microsoft Azure, and Google Cloud Platform (GCP), and develop and deploy real-world applications in Kubernetes using practical examples. Additionally,

you'll get to grips with managing microservices along with best practices. By the end of this book, you'll be equipped with battle-tested knowledge of advanced Kubernetes topics, such as scheduling of Pods and managing incoming traffic to the cluster, and be ready to work with Kubernetes on cloud platforms. What you will learnManage containerized applications with KubernetesUnderstand Kubernetes architecture and the responsibilities of each componentSet up Kubernetes on Amazon Elastic Kubernetes Service, Google Kubernetes Engine, and Microsoft Azure Kubernetes ServiceDeploy cloud applications such as Prometheus and Elasticsearch using Helm chartsDiscover advanced techniques for Pod scheduling and auto-scaling the clusterUnderstand possible approaches to traffic routing in KubernetesWho this book is for This book is for software developers and DevOps engineers looking to understand how to work with Kubernetes for orchestrating containerized applications and services in the cloud. Prior experience with designing software running in operating system containers, as well as a general background in DevOps best practices, will be helpful. Basic knowledge of Kubernetes, Docker, and leading cloud service providers assist with grasping the concepts covered easily.

Mastering Docker Russ McKendrick.2020-10-12 Unlock the full potential of the Docker containerization platform with this practical guide Key FeaturesExplore tools such as Docker Engine, Machine, Compose, and SwarmDiscover how you can integrate Docker into your everyday workflowsGet well-versed with Kubernetes options such as Minikube, Kind, and MicroK8sBook Description Docker has been a game changer when it comes to how modern applications are deployed and created. It has now grown into a key driver of innovation beyond system administration, with a significant impact on the world of web development. Mastering Docker shows you how you can ensure that you're keeping up with the innovations it's driving and be sure you're using it to its full potential. This fourth edition not only demonstrates how to use Docker more effectively but also helps you rethink and reimagine what you can achieve with it. You'll start by building, managing, and storing images along with exploring best practices for working with Docker confidently. Once you've got to grips with Docker security, the book covers essential concepts for extending and integrating Docker in new and innovative ways. You'll also learn how to take control of your containers efficiently using Docker Compose, Docker Swarm, and Kubernetes. By the end of this Docker book, you'll have a broad yet detailed sense of what's possible with Docker and how seamlessly it fits in with a range of other platforms and tools. What you will learnGet to grips with essential Docker components and conceptsDiscover the best ways to build, store, and distribute container imagesUnderstand how Docker can fit into your development workflowSecure your containers and files with Docker's security featuresExplore first-party and third-party cluster tools and pluginsLaunch and manage your Kubernetes clusters in major public cloudsWho this book is for If you are a software architect, DevOps engineer, sysadmin, or IT professional looking to leverage Docker's extensive features for innovating any process from system administration to web development, Mastering Docker will show you how you can use it to its full potential. A basic understanding of containerization and prior Docker experience is necessary.

The DevOps 2.1 Toolkit: Docker Swarm Viktor Farcic.2017-05-10 Viktor Farcic's latest book, The DevOps 2.1 Toolkit: Docker Swarm, shows you how to successfully integrate Docker Swarm into your DevOps toolset. About This Book Expand your DevOps Toolkit with the DevOps thought leader, Viktor Farcic Build, test, deploy, and monitor services inside Docker Swarm clusters Translate your understanding to different hosting providers like AWS, Azure, and DigitalOcean Go beyond simple deployment to explore how to create a continuous deployment process Extend the deep understanding you gained from Viktor's DevOps 2.0 Toolkit book Who This Book Is For This book is for professionals interested in the full microservices life cycle combined with continuous deployment and containers. Target audience could be architects who want to know how to design their systems around microservices. It could be DevOps wanting to know how to apply modern configuration management practices and continuously deploy applications packed in containers. It is for developers who would like to take the process back into their hands as well as for managers who would like to gain a better understanding of the process used to deliver software from the beginning

to the end. This book is for everyone wanting to know more about the software development life cycle starting from requirements and design, through the development and testing all the way until deployment and post-deployment phases. We'll create the processes taking into account the best practices developed by and for some of the biggest companies. What You Will Learn Learn all aspects of Docker Swarm from building, testing, deploying, and monitoring services inside Docker Swarm clusters, available since Docker 1.12. Master the deeper logic of DevOps with Viktor, so that you can successfully apply that logic across any specific set of tools you're working with. Translate a deep understanding to different hosting providers like AWS, Azure, DigitalOcean, among others. You'll go beyond simple deployment: you will explore with Viktor how to create a continuous deployment process. Accomplish zero-downtime deployments, and what to do in case of a failover. Know how to run services at scale, how to monitor the systems, and how to make it heal itself. In Detail Viktor Farcic's latest book, The DevOps 2.1 Toolkit: Docker Swarm, takes you deeper into one of the major subjects of his international best seller, The DevOps 2.0 Toolkit, and shows you how to successfully integrate Docker Swarm into your DevOps toolset. Viktor shares with you his expert knowledge in all aspects of building, testing, deploying, and monitoring services inside Docker Swarm clusters. You'll go through all the tools required for running a cluster. You'll travel through the whole process with clusters running locally on a laptop. Once you're confident with that outcome, Viktor shows you how to translate your experience to different hosting providers like AWS, Azure, and DigitalOcean. Viktor has updated his DevOps 2.0 framework in this book to use the latest and greatest features and techniques introduced in Docker. We'll go through many practices and even more tools. While there will be a lot of theory, this is a hands-on book. You won't be able to complete it by reading it on the metro on your way to work. You'll have to read this book while in front of the computer and get your hands dirty. Style and approach We'll go through many practices and even more tools. While there will be a lot of theory, this is a hands-on book. You'll have to read this book while in front of the computer and get your hands dirty. The goal is not to master one particular set of tools, but to learn the logic behind them so that you can apply it to your job in various contexts.

Continuous Delivery with Docker and Jenkins Rafal Leszko.2017-08-24 Unleash the combination of Docker and Jenkins in order to enhance the DevOps workflow About This Book Build reliable and secure applications using Docker containers. Create a complete Continuous Delivery pipeline using Docker, Jenkins, and Ansible. Deliver your applications directly on the Docker Swarm cluster. Create more complex solutions using multi-containers and database migrations. Who This Book Is For This book is indented to provide a full overview of deep learning. From the beginner in deep learning and artificial intelligence to the data scientist who wants to become familiar with Theano and its supporting libraries, or have an extended understanding of deep neural nets. Some basic skills in Python programming and computer science will help, as well as skills in elementary algebra and calculus. What You Will Learn Get to grips with docker fundamentals and how to dockerize an application for the Continuous Delivery process Configure Jenkins and scale it using Docker-based agents Understand the principles and the technical aspects of a successful Continuous Delivery pipeline Create a complete Continuous Delivery process using modern tools: Docker, Jenkins, and Ansible Write acceptance tests using Cucumber and run them in the Docker ecosystem using Jenkins Create multi-container applications using Docker Compose Managing database changes inside the Continuous Delivery process and understand effective frameworks such as Cucumber and Flyweight Build clustering applications with Jenkins using Docker Swarm Publish a built Docker image to a Docker Registry and deploy cycles of Jenkins pipelines using community best practices In Detail The combination of Docker and Jenkins improves your Continuous Delivery pipeline using fewer resources. It also helps you scale up your builds, automate tasks and speed up Jenkins performance with the benefits of Docker containerization. This book will explain the advantages of combining Jenkins and Docker to improve the continuous integration and delivery process of app development. It will start with setting up a Docker server and configuring Jenkins on it. It will then provide steps to build applications on Docker files and integrate them with Jenkins using continuous delivery

processes such as continuous integration, automated acceptance testing, and configuration management. Moving on you will learn how to ensure quick application deployment with Docker containers along with scaling Jenkins using Docker Swarm. Next, you will get to know how to deploy applications using Docker images and testing them with Jenkins. By the end of the book, you will be enhancing the DevOps workflow by integrating the functionalities of Docker and Jenkins. Style and approach The book is aimed at DevOps Engineers, developers and IT Operations who want to enhance the DevOps culture using Docker and Jenkins.

Effortless Cloud-Native App Development Using Skaffold Ashish Choudhary.2021-10-15 A practical guide to solving inner development loop problems in cloud-native applications by automating build, push, and deploy boilerplate using Skaffold Key FeaturesLearn how to build and deploy cloud-native applications quickly with KubernetesCreate a production-ready continuous integration and continuous delivery (CI/CD) pipeline for cloud-native appsDiscover ways to create a GitOps-style CD workflow for cloud-native applicationsBook Description Kubernetes has become the de facto standard for container orchestration, drastically improving how we deploy and manage cloud-native apps. Although it has simplified the lives of support professionals, we cannot say the same for developers who need to be equipped with better tools to increase productivity. An automated workflow that solves a wide variety of problems that every developer faces can make all the difference! Enter Skaffold – a command-line tool that automates the build, push, and deploy steps for Kubernetes applications. This book is divided into three parts, starting with common challenges encountered by developers in building apps with Kubernetes. The second part covers Skaffold features, its architecture, supported container image builders, and more. In the last part, you'll focus on practical implementation, learning how to deploy Spring Boot apps to cloud platforms such as Google Cloud Platform (GCP) using Skaffold. You'll also create CI/CD pipelines for your cloud-native apps with Skaffold. Although the examples covered in this book are written in Java and Spring Boot, the techniques can be applied to apps built using other technologies too. By the end of this Skaffold book, you'll develop skills that will help accelerate your inner development loop and be able to build and deploy your apps to the Kubernetes cluster with Skaffold. What you will learnOvercome challenges faced while working in an inner development loop using SkaffoldAccelerate your development workflow using SkaffoldUnderstand Skaffold's architecture, internal working, and supported CLI commandsBuild and deploy containers to Kubernetes using the Skaffold CLI and Cloud CodeDeploy Spring Boot applications to fully managed Kubernetes services such as Google Kubernetes Engine using SkaffoldExplore best practices for developing an app with SkaffoldAvoid common pitfalls when developing cloud-native apps with Skaffold in KubernetesWho this book is for Cloud-native application developers, software engineers working with Kubernetes, and DevOps professionals who are looking for a solution to simplify and improve their software development life cycle will find this book useful. Beginner-level knowledge of Docker, Kubernetes, and the container ecosystem is required to get started with this book.

Docker Quick Start Guide Earl Waud.2018-11-29 Develop and build your Docker images and deploy your Docker containers securely. Key FeaturesLearn Docker installation on different types of OSGet started with developing Docker imagesUse Docker with your Jenkins CI/CD systemBook Description Docker is an open source software platform that helps you with creating, deploying, and running your applications using containers. This book is your ideal introduction to Docker and containerization. You will learn how to set up a Docker development environment on a Linux, Mac, or Windows workstation, and learn your way around all the commands to run and manage your Docker images and containers. You will explore the Dockerfile and learn how to build your own enterprise-grade Docker images. Then you will learn about Docker networks, Docker swarm, and Docker volumes, and how to use these features with Docker stacks in order to define, deploy, and maintain highly-scalable, fault-tolerant multi-container applications. Finally, you will learn how to leverage Docker with Jenkins to automate the building of Docker images and the deployment of Docker containers. By the end of this book, you will be well prepared when it comes to using Docker for your next project. What you will learnSet up your Docker workstation on various platformsUtilize

a number of Docker commands with parametersCreate Docker images using DockerfilesLearn how to create and use Docker volumesDeploy multi-node Docker swarm infrastructureCreate and use Docker local and remote networksDeploy multi-container applications that are HA and FTUse Jenkins to build and deploy Docker imagesWho this book is for This guide is for anyone who needs to make a quick decision about using Docker for their next project. It is for developers who want to get started using Docker right away.

Generic Pipelines Using Docker Brandon Atkinson,Dallas Edwards.2018-12-19 Create generic pipelines to reduce your overall DevOps workload and allow your team to deliver faster. This book helps you get up to speed on the pros and cons of generic pipeline methodology, and learn to combine shell scripts and Docker to build generic pipelines. In today's world of micro-services and agile practices, DevOps teams need to move as fast as feature teams. This can be extremely challenging if you're creating multiple pipelines per application or tech stack. What if your feature teams could utilize a generic pipeline that could build, test, and deploy any application, regardless of tech stack? What if that pipeline was also cloud and platform agnostic? Too good to be true? Well think again! Generic Pipelines Using Docker explores the principles and implementations that allow you to do just that. You will learn from real-world examples and reusable code. After reading this book you will have the knowledge to build generic pipelines that any team can use. What You'll Learn Explore the pros and cons of generic pipeline methodology Combine shell scripts and Docker to build a generic pipeline Implement a pipeline across CI/CD platforms Build a pipeline that lends itself well to both centralized and federated DevOps teams Construct a modular pipeline with components that can be added, removed, or replaced as needed Who This Book Is For Professionals who use DevOps or are part of a DevOps team, and are seeking ways to streamline their pipelines and drive more deployments while using less code

Docker: Up & Running Sean P. Kane,Karl Matthias.2018-09-07 Docker is rapidly changing the way organizations deploy software at scale. However, understanding how Linux containers fit into your workflow—and getting the integration details right—is not a trivial task. With the updated edition of this practical guide, you'll learn how to use Docker to package your applications with all of their dependencies and then test, ship, scale, and support your containers in production. This edition includes significant updates to the examples and explanations that reflect the substantial changes that have occurred over the past couple of years. Sean Kane and Karl Matthias have added a complete chapter on Docker Compose, deeper coverage of Docker Swarm mode, introductions to both Kubernetes and AWS Fargate, examples on how to optimize your Docker images, and much more. Learn how Docker simplifies dependency management and deployment workflow for your applications Start working with Docker images, containers, and command line tools Use practical techniques to deploy and test Docker containers in production Debug containers by understanding their composition and internal processes Deploy production containers at scale inside your data center or cloud environment Explore advanced Docker topics, including deployment tools, networking, orchestration, security, and configuration

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and deploy them using Jenkins, Kubernetes, and Spinnaker. As you advance, you'll get to grips with monitoring, securing, and scaling Docker using tools such as Prometheus and Grafana. Later, you'll be able to deploy Docker containers to a variety of environments, including the cloud-native Amazon Elastic Kubernetes Service (Amazon EKS), before finally delving into Docker security concepts and best practices. By the end of the Docker book, you'll be able to not only work in a container-driven environment confidently but also use Docker for both new and existing projects. What you will learnGet up to speed with creating containers and understand how they workPackage and deploy your containers to a variety of platformsWork with containers in the cloud and on the Kubernetes platformDeploy and then monitor the health and logs of running containersExplore best practices for working with containers from a security perspectiveBecome familiar with scanning containers and using third-party security tools and librariesWho this book is for If you're a software engineer new to containerization or a DevOps engineer responsible for deploying Docker containers in the cloud and building DevOps pipelines for container-based projects, you'll find this book useful. This Docker containers book is also a handy reference guide for anyone working with a Docker-based DevOps ecosystem or interested in understanding the security implications and best practices for working in container-driven environments.

Reviewing **Using Docker Developing And Deploying Software Wi**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Using Docker Developing And Deploying Software Wi**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

Table of Contents Using Docker Developing And Deploying Software Wi

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