Portainer App Template

Alfred Sabitzer

Mastering Docker Russ McKendrick,Scott Gallagher,2018-10-25 Master Docker and leverage its power in your day-to-day workflow Key FeaturesExplore tools such as Docker Engine, Machine, Compose, and SwarmDiscover how Docker can be integrated into your daily workflowsLearn to leverage Docker Swarm and KubernetesBook 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 an impact on the world of web development. But how can you make sure you're keeping up with the innovations it's driving, or be sure you're using it to its full potential? Mastering Docker shows you how; this book not only demonstrates how to use Docker more effectively, but also helps you rethink and reimagine what's possible with it. You will cover concepts such as building, managing, and storing images, along with best practices to make you confident, before delving more into Docker security. You'll find everything related to extending and integrating Docker in new and innovative ways. Docker Compose, Docker Swarm, and Kubernetes will help you take control of your containers in an efficient manner. By the end of the book, you will 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 learnBecome fluent with the basic components and concepts of DockerLearn the best ways to build, store, and distribute containersUnderstand how Docker can fit into your development workflowSecure your containers and files with Docker's security featuresSolve architectural problems using the first and third clustering toolLeverage Linux containers and create highly scalable applicationsWho this book is for If you are an I.T professional and recognize Docker's importance for innovation in everything from system administration to web development, but aren't sure how to use it to its full potential, Mastering Docker is for you.

The Smarthome Book Andrew Howe, Technology is playing an increasingly more important part in our homes as well as our day to day lives. Get this simple to read guide to be introduced to structured wiring and smarthome concepts. It will not only take you through the requirements necessary to implement these upgrades but also provide a long list of inspirational and useful ideas to help make your smarthome upgrade not only a reality but fun! Through the chapters of this book we cover the various topics and components which will provide an insight into upgrading your home and making it smart. Considering a renovation or a new build? Then look no further, as this will detail the basics of home cinema, whole

house audio and video systems, security with remote monitoring, energy efficiency and how best to set up your data network, all wrapped up in an easy to read format, with easily laid out diagrams and a glossary of terms and links at the end to further your quest. Consider how long people spend deciding what flooring to lay down or what tiles to place in the kitchen or bathroom. Now consider how long people spend on what type of cabling will allow them to have that cool minimalist look in their renovation! Those hidden wires, the intelligent lighting, the surround sound, the energy efficient heating. Read this book before speaking to your electrician or installer. Save yourself time and money by being prepared.

Docker in Practice, Second Edition Ian Miell,Aidan Sayers,2019-02-06 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

Heart of Black Ice Terry Goodkind,2020-01-21 Heart of Black Ice is the climactic conclusion to Terry Goodkind's New York Times bestselling Nicci Chronicles. In the wake of the brutal war that swept the Old World in Siege of Stone, a new danger is forming along the coast. Taken captive by their enemies, King Grieve, along with Lila and Bannon are about to discover the terrifying force that threatens to bring destruction to the Old World. The Norukai, barbarian raiders and slavers, have been gathering an immense fleet among the inhospitably rocky islands that make up their home. With numbers greater than anyone could have imagined, the Norukai are poised to launch their final and most deadly war. At the Publisher's request, this title is being sold without Digital Rights Management Software (DRM) applied.

The Docker Book James Turnbull,2014-07-14 Updated for Docker Community Edition v18.09! Docker book designed for SysAdmins, SREs, Operations staff, Developers and DevOps who are interested in deploying the open source container service Docker. In this book, we'll walk you through installing, deploying, managing, and extending Docker. We're going to do that by first introducing you to the basics of Docker and its components. Then we'll start to use Docker to build containers and services to perform a variety of tasks. We're going to take you through the development lifecycle, from testing to production, and see where Docker fits in and how it can make your life easier. We'll make use of Docker to build test environments for new projects, demonstrate how to integrate Docker with continuous integration workflow, and then how to build application services and platforms. Finally, we'll show you how to use Docker's API and how to extend Docker yourself. We'll teach you how to: * Install Docker. * Take your first steps with a Docker container. * Build Docker images. * Manage and share Docker images. * Run and manage more complex Docker containers. * Deploy Docker containers as part of your testing pipeline. * Build multi-container applications and environments. * Learn about orchestration using Compose and Swarm for the orchestration of Docker containers and Consul for service discovery. * Explore the Docker API. * Getting Help and Extending Docker.

R Markdown Yihui Xie,J.J. Allaire,Garrett Grolemund,2018-07-27 R Markdown: The Definitive Guide is the first official book authored by the core R Markdown developers that provides a comprehensive and accurate reference to the R Markdown ecosystem. With R Markdown, you can easily create reproducible data analysis reports, presentations, dashboards, interactive applications, books, dissertations, websites, and journal articles, while enjoying the simplicity of Markdown and the great power of R and other languages. In this book, you will learn Basics: Syntax of Markdown and R code chunks, how to generate figures and tables, and how to use other computing languages Built-in output formats of R Markdown: PDF/HTML/Word/RTF/Markdown documents and ioslides/Slidy/Beamer/PowerPoint presentations Extensions and applications: Dashboards, Tufte handouts, xaringan/reveal.js presentations, websites, books, journal articles, and interactive tutorials Advanced topics: Parameterized reports, HTML widgets, document templates, custom output formats, and Shiny documents. Yihui Xie is a software engineer at RStudio. He has authored and co-authored several R packages, including

knitr, rmarkdown, bookdown, blogdown, shiny, xaringan, and animation. He has published three other books, Dynamic Documents with R and knitr, bookdown: Authoring Books and Technical Documents with R Markdown, and blogdown: Creating Websites with R Markdown. J.J. Allaire is the founder of RStudio and the creator of the RStudio IDE. He is an author of several packages in the R Markdown ecosystem including rmarkdown, flexdashboard, learnr, and radix. Garrett Grolemund is the co-author of R for Data Science and author of Hands-On Programming with R. He wrote the lubridate R package and works for RStudio as an advocate who trains engineers to do data science with R and the Tidyverse.

Android Development with Kotlin Marcin Moskala,Igor Wojda,2017-08-30 Learn how to make Android development much faster using a variety of Kotlin features, from basics to advanced, to write better quality code. About This Book Leverage specific features of Kotlin to ease Android application development Write code based on both object oriented and functional programming to build robust applications Filled with various practical examples so you can easily apply your knowledge to real world scenarios Identify the improved way of dealing with common Java patterns Who This Book Is For This book is for developers who have a basic understanding of Java language and have 6-12 months of experience with Android development and developers who feel comfortable with OOP concepts. What You Will Learn Run a Kotlin application and understand the integration with Android Studio Incorporate Kotlin into new/existing Android Java based project Learn about Kotlin type system to deal with null safety and immutability Define various types of classes and deal with properties Define collections and transform them in functional way Define extensions, new behaviours to existing libraries and Android framework classes Use generic type variance modifiers to define subtyping relationship between generic types Build a sample application In Detail Nowadays, improved application development does not just mean building better performing applications. It has become crucial to find improved ways of writing code. Kotlin is a language that helps developers build amazing Android applications easily and effectively. This book discusses Kotlin features in context of Android development. It demonstrates how common examples that are typical for Android development, can be simplified using Kotlin. It also shows all the benefits, improvements and new possibilities provided by this language. The book is divided in three modules that show the power of Kotlin and teach you how to use it properly. Each module present features in different levels of advancement. The first module covers Kotlin basics. This module will lay a firm foundation for the rest of the chapters so you are able to read and understand most of the Kotlin code. The next module dives deeper into the building blocks of Kotlin, such as functions, classes, and function types. You will learn how Kotlin brings many improvements to the table by improving common Java concepts and decreasing code verbosity. The last module presents features that are not present in Java. You will learn how certain tasks can be achieved in simpler ways thanks to Kotlin. Through the book, you will learn how to use Kotlin for Android development. You will get to know and understand most important Kotlin features, and how they can be used. You will be ready to start your own adventure with Android development with Kotlin.

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.

Mastering Docker - Third Edition Russ McKendrick,Scott Gallagher,2018-10-25 Master Docker and leverage its power in your day-to-day workflow Key Features Explore tools such as Docker Engine, Machine, Compose, and Swarm Discover how Docker can be integrated into your daily workflows Learn to leverage Docker Swarm and Kubernetes Book 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 an impact on the world of web development. But how can you make sure you're keeping up with the innovations it's driving, or be sure you're using it to its full potential? Mastering Docker shows you how; this book not only demonstrates how to use Docker more effectively, but also helps you rethink and reimagine what's possible with it. You will cover concepts such as building, managing, and storing images, along with best practices to make you confident, before delving more into Docker security. You'll find everything related to extending and integrating Docker in new and innovative ways. Docker Compose, Docker Swarm, and Kubernetes will help you take control of your containers in an efficient manner. By the end of the book, you will 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 learn Become fluent with the basic components and concepts of Docker Learn the best ways to build, store, and distribute containers Understand how Docker can fit into your development workflow Secure your containers and files with Docker's security features Solve architectural problems using the first and third clustering tool Leverage Linux containers and create highly scalable

applications Who this book is for If you are an I.T professional and recognize Docker's importance for innovation in everything from system administration to web development, but aren't sure how to use it to its full potential, Mastering Docker is for you.

Bootstrapping Microservices with Docker, Kubernetes, and Terraform Ashley Davis,2021-01-23 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

Advanced Infrastructure Penetration Testing Chiheb Chebbi,2018-02-26 A highly detailed guide to performing powerful attack vectors in many hands-on scenarios and defending significant security flaws in your company's infrastructure Key Features Advanced exploitation techniques to breach modern operating systems and complex network devices Learn about Docker breakouts, Active Directory delegation, and CRON jobs Practical use cases to deliver an intelligent endpoint-protected system Book Description It has always been difficult to gain hands-on experience and a comprehensive understanding of advanced penetration testing techniques and vulnerability assessment and management. This book will be

your one-stop solution to compromising complex network devices and modern operating systems. This book provides you with advanced penetration testing techniques that will help you exploit databases, web and application servers, switches or routers, Docker, VLAN, VoIP, and VPN. With this book, you will explore exploitation abilities such as offensive PowerShell tools and techniques, CI servers, database exploitation, Active Directory delegation, kernel exploits, cron jobs, VLAN hopping, and Docker breakouts. Moving on, this book will not only walk you through managing vulnerabilities, but will also teach you how to ensure endpoint protection. Toward the end of this book, you will also discover post-exploitation tips, tools, and methodologies to help your organization build an intelligent security system. By the end of this book, you will have mastered the skills and methodologies needed to breach infrastructures and provide complete endpoint protection for your system. What you will learn Exposure to advanced infrastructure penetration testing techniques and methodologies Gain hands-on experience of penetration testing in Linux system vulnerabilities and memory exploitation Understand what it takes to break into enterprise networks Learn to secure the configuration management environment and continuous delivery pipeline Gain an understanding of how to exploit networks and IoT devices Discover real-world, post-exploitation techniques and countermeasures Who this book is for If you are a system administrator, SOC analyst, penetration tester, or a network engineer and want to take your penetration testing skills and security knowledge to the next level, then this book is for you. Some prior experience with penetration testing tools and knowledge of Linux and Windows command-line syntax is beneficial.

Bau einer K8s bare-metal-cloud mit RaspberryPI Alfred Sabitzer,2021-09-09 Die Idee eine Cloud zu bauen entstand während der Corona-Zeit. Anstatt Fernsehen könnte man doch was Sinnvolles ausprobieren. Außerdem ist der vorhandene Raspberry 4 bereits überlastet, und kann schwerlich neue Dienste anbieten. Da wäre doch ein System, das skalierbar ist, beliebig viele Services anbieten kann usw. doch genau das Richtige. Außerdem sind Microservices leichter auf neue Hardware portierbar! Ich erinnere mich noch genau, wie aufwändig der Umstieg vom Raspberry 2 auf den Raspberry 3 und dann auf den Raspberry 4 war. Ich musste jedes mal aufs Neue nachdenken, wie den die Installation genau geht, habe viel Zeit investiert und erreichte am Ende bestenfalls, dass ich nachher dieselben Dienste nutzen konnte wie vorher:) Darum: eine Cloud muss her.

Mastering Microsoft Dynamics 365 Business Central Stefano Demiliani,Duilio Tacconi,2019-12-20 Develop customized business management solutions with the latest features of Microsoft Dynamics 365 Business Central Key FeaturesLearn Dynamics 365 Business Central, the next generation of Dynamics NAVExplore advanced topics for handling complex integrations such as using APIs, OData, and Azure FunctionsDiscover best practices for developing SaaS extensions and moving existing solutions to the cloudBook Description Dynamics 365 Business Central is an all-in-one business management solution, which is easy to adopt and helps you make smarter business decisions. This book is a comprehensive guide to

developing solutions with Microsoft ERP (in the cloud and also on-premises). It covers all aspects of developing extensions, right from preparing a sandbox environment to deploying a complete solution. The book starts by introducing you to the Dynamics 365 Business Central platform and the new Modern Development Environment. You'll then explore the sandbox concept, and see how to create sandboxes for development. As you advance, you'll be able to build a complete advanced solution for Dynamics 365 Business Central with AL language and Visual Studio Code. You'll then learn how to debug and deploy the extension and write automatic testing. The book will also take you through advanced topics like integration (with Azure Functions, web services, and APIs), DevOps and CI/CD techniques, and machine learning. You'll discover how Dynamics 365 Business Central can be used with Office 365 apps. Finally, you'll analyze different ways to move existing solutions to the new development model based on extensions. By the end of this book, you'll be able to develop highly customized solutions that meet the requirements of modern businesses using Dynamics 365 Business Central. What you will learnCreate a sandbox environment with Dynamics 365 Business CentralHandle source control management when developing solutionsExplore extension testing, debugging, and deploymentCreate real-world business processes using Business Central and different Azure servicesIntegrate Business Central with external applicationsApply DevOps and CI/CD to development projectsMove existing solutions to the new extension-based architectureWho this book is for If you're a new developer looking to get started with Dynamics 365 Business Central, this book is for you. This book will also help experienced professionals enhance their knowledge and understanding of Dynamics 365 Business Central.

Getting Started with V Programming Navule Pavan Kumar Rao,2021-12-10 Learn a new statically compiled programming language to build maintainable and fast software with the help of this comprehensive guide to V programming Key FeaturesExplore the features of the V programming language step by step with this beginner's guideGain strong foundational knowledge of core programming concepts such as modules, functions, and structsLearn how to write super-fast programs and applications that compile in a matter of secondsBook Description A new language on the block, V comes with a promising set of features such as fast compilation and interoperability with other programming languages. This is the first book on the V programming language, packed with concise information and a walkthrough of all the features you need to know to get started with the language. The book begins by covering the fundamentals to help you learn about the basic features of V and the suite of built-in libraries available within the V ecosystem. You'll become familiar with primitive data types, declaring variables, arrays, and maps. In addition to basic programming, you'll develop a solid understanding of the building blocks of programming, including functions, structs, and modules in the V programming language. As you advance through the chapters, you'll learn how to implement concurrency in V Programming, and finally learn how to write test cases for functions. This book takes you through an end-to-end project that will guide you to build fast and maintainable RESTful microservices by leveraging the power of V and its built-in libraries. By the end of this V programming book, you'll be well-

versed with the V programming language and be able to start writing your own programs and applications. What you will learnBecome familiar with the basic building blocks of programming in the V languageInstall the V language on various operating systemsUnderstand how to work with arrays and maps in V programmingDiscover how to implement concurrency in V programmingUse channels in V programming to learn the best practices of sharing memory by communicating among coroutinesWrite modular code and build on your knowledge of structs and functions in VGet acquainted with writing tests in V programmingGet to grips with building and querying RESTful microservice in VWho this book is for Whether you're a beginner interested in learning a programming language or an experienced programmer looking to switch to a new and better statically compiled programming language, this V programming book is for you.

E-Democracy – Privacy-Preserving, Secure, Intelligent E-Government Services Sokratis K. Katsikas,Vasilios Zorkadis,2017-11-16 This book constitutes the refereed proceedings of the 7th International Conference on E-Democracy, E-Democracy 2017, held in Athens, Greece, in December 2017. The 18 revised full papers presented were carefully selected from 44 submissions. The papers are organized in topical sections on e-democracy; privacy; information dissemination and freedom of expression; social networks; electronic identity authentication; ICT in government and in the economy.

Beginning AI Bot Frameworks Manisha Biswas,2018-09-21 Want to build your first AI bot but don't know where to start? This book provides a comprehensive look at all the major bot frameworks available. You'll learn the basics for each framework in one place and get a clear picture for which one is best for your needs. Beginning AI Bot Frameworks starts with an overview of bot development and then looks at Google Wit.ai and APi.ai functions, IBM Watson, AWS bots with Lambda, FlockOS and TensorFlow. Additionally, it touches on Deep Learning and how bot frameworks can be extended to mixed reality with Hololens. By the end, you'll have mastered the different bot frameworks available and finally have the confidence to develop intelligent AI Chatbots of their own. What You'll Learn Review key structural points for building bots Understand the basic requirements for building a bot in each framework Integrate some of the frameworks Compare the features of each framework Who This Book Is For Computer Science students, engineers, developers and technology enthusiasts with some background in C#, node.js, and cloud platforms.

Learning Go Programming Vladimir Vivien,2016-10-26 An insightful guide to learning the Go programming language About This Book Insightful coverage of Go programming syntax, constructs, and idioms to help you understand Go code effectively Push your Go skills, with topics such as, data types, channels, concurrency, object-oriented Go, testing, and network programming Each chapter provides working code samples that are designed to help reader quickly understand respective topic Who This Book Is For If you have prior exposure to programming and are interested in learning the Go programming language, this book is designed for you. It will quickly run you through the basics of programming to let you exploit a number of features offered by Go programming language. What You Will Learn Install and configure the Go

development environment to quickly get started with your first program. Use the basic elements of the language including source code structure, variables, constants, and control flow primitives to quickly get started with Go Gain practical insight into the use of Go's type system including basic and composite types such as maps, slices, and structs. Use interface types and techniques such as embedding to create idiomatic object-oriented programs in Go. Develop effective functions that are encapsulated in well-organized package structures with support for error handling and panic recovery. Implement goroutine, channels, and other concurrency primitives to write highly-concurrent and safe Go code Write tested and benchmarked code using Go's built test tools Access OS resources by calling C libraries and interact with program environment at runtime In Detail The Go programming language has firmly established itself as a favorite for building complex and scalable system applications. Go offers a direct and practical approach to programming that let programmers write correct and predictable code using concurrency idioms and a full-featured standard library. This is a step-by-step, practical guide full of real world examples to help you get started with Go in no time at all. We start off by understanding the fundamentals of Go, followed by a detailed description of the Go data types, program structures and Maps. After this, you learn how to use Go concurrency idioms to avoid pitfalls and create programs that are exact in expected behavior. Next, you will be familiarized with the tools and libraries that are available in Go for writing and exercising tests, benchmarking, and code coverage. Finally, you will be able to utilize some of the most important features of GO such as, Network Programming and OS integration to build efficient applications. All the concepts are explained in a crisp and concise manner and by the end of this book; you would be able to create highly efficient programs that you can deploy over cloud. Style and approach The book is written to serve as a reader-friendly step-by-step guide to learning the Go programming language. Each topic is sequentially introduced to build on previous materials covered. Every concept is introduced with easy-to-follow code examples that focus on maximizing the understanding of the topic at hand.

Docker on Windows Elton Stoneman,2017-07-13 Learn how to run new and old Windows applications in Docker containers. About This Book Package traditional .NET Frameworks apps and new .NET Core apps as Docker images, and run them in containers for increased efficiency, portability, and security Design and implement distributed applications that run across connected containers, using enterprise-grade open source software from public Docker images Build a full Continuous Deployment pipeline for a .NET Framework application, and deploy it to a highly-available Docker swarm running in the cloud Who This Book Is For If you want to modernize an old monolithic application without rewriting it, smooth the deployment to production, or move to DevOps or the cloud, then Docker is the enabler for you. This book gives you a solid grounding in Docker so you can confidently approach all of these scenarios. What You Will Learn Comprehend key Docker concepts: images, containers, registries, and swarms Run Docker on Windows 10, Windows Server 2016, and in the cloud Deploy and monitor distributed solutions across multiple Docker containers Run containers with high availability and fail-

over with Docker Swarm Master security in-depth with the Docker platform, making your apps more secure Build a Continuous Deployment pipeline by running Jenkins in Docker Debug applications running in Docker containers using Visual Studio Plan the adoption of Docker in your own organization In Detail Docker is a platform for running server applications in lightweight units called containers. You can run Docker on Windows Server 2016 and Windows 10, and run your existing apps in containers to get significant improvements in efficiency, security, and portability. This book teaches you all you need to know about Docker on Windows, from 101 to deploying highly-available workloads in production. This book takes you on a Docker journey, starting with the key concepts and simple examples of how to run .NET Framework and .NET Core apps in Windows Docker containers. Then it moves on to more complex examples—using Docker to modernize the architecture and development of traditional ASP.NET and SQL Server apps. The examples show you how to break up monoliths into distributed apps and deploy them to a clustered environment in the cloud, using the exact same artifacts you use to run them locally. To help you move confidently to production, it then explains Docker security, and the management and support options. The book finishes with guidance on getting started with Docker in your own projects, together with some real-world case studies for Docker implementations, from small-scale on-premises apps to very large-scale apps running on Azure. Style and approach Using a step-by-step approach, this book shows you how to use Docker on Windows. It includes practical examples and real-world technical and business scenarios that will help you effectively implement Docker in your environment.There are over 50 examples of Dockerized applications, using C# .NET projects as the source and packaging them into Docker images.

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

The JHipster Mini-Book Matt Raible,2016-04-06 The JHipster Mini-Book is a guide to getting started with hip technologies today: Angular, Bootstrap, and Spring Boot. All of these frameworks are wrapped up in an easy-to-use project

called JHipster. JHipster is a development platform to generate, develop and deploy Spring Boot + Angular (or React/Vue) web applications and microservices. This book shows you how to build an app with JHipster, and guides you through the plethora of tools, techniques, and options you can use. Then, it shows you how to secure your data and deploy your app to Heroku. Furthermore, it explains the UI and API building blocks so you understand the underpinnings of your great application. The latest edition (v7.0) is updated for JHipster 7. This edition includes an updated microservices section that features WebFlux and micro frontends with React. You can find the blog for the JHipster Mini-Book at http: //www.jhipster-book.com. You can also follow it on Twitter at https: //twitter.com/jhipster_book. Purpose of the book: To provide free information to the JHipster community. I've used many of the frameworks that JHipster supports, and I like how it integrates them. Building web and mobile applications with Angular, Bootstrap, and Spring Boot is a great experience. I want to encourage more developers to try it.

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