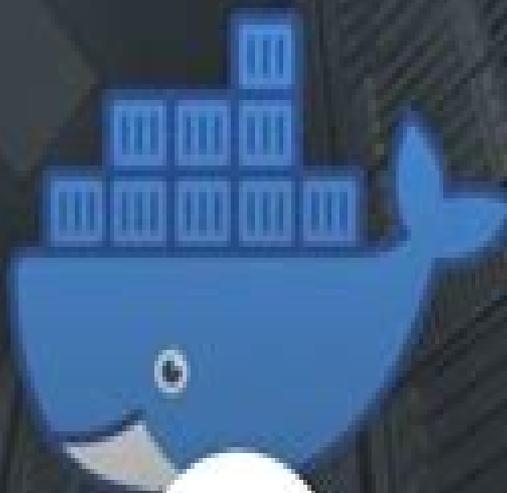Preview this course

Docker Mastery The Complete Toolset From A Docker Captain

Dr. Gabriel Nicolas Schenker

Docker Mastery The Complete Toolset From A Docker Captain:

DevSecOps Aditya Pratap Bhuyan,2024-07-21 Are you struggling to balance the need for secure software with the demands of fast paced development In today s competitive landscape delivering secure software at speed is no longer an option it s a necessity This book DevSecOps Delivering Secure Software at Speed provides a comprehensive guide for cloud practitioners developers and security professionals looking to bridge the gap between development and security Drawing on the author s extensive experience in cloud migration microservices architecture and DevSecOps principles this book equips you with the knowledge and tools needed to build secure and agile software applications You ll delve into the core principles of DevSecOps including Shifting Left Security Integrate security considerations into the early stages of development to identify and address vulnerabilities proactively Automating Security Processes Leverage automation tools for security testing vulnerability management and configuration management to streamline the development lifecycle Building a Collaborative Culture Fostering open communication and collaboration between development security and operations teams to ensure a shared responsibility for security This book goes beyond theory offering practical guidance for Securing Microservices Architectures Explore best practices for securing microservices applications including containerization API security and distributed tracing Leveraging Cloud Security Features Harness the built in security features offered by leading cloud platforms like AWS GCP and Azure Emerging Trends in DevSecOps Stay ahead of the curve by exploring cutting edge trends like AI and machine learning for security blockchain for secure software supply chains and the future of DevSecOps in the cloud native landscape With a focus on both security and agility DevSecOps Delivering Secure Software at Speed empowers you to Reduce Security Risks Proactively identify and remediate vulnerabilities minimizing the risk of security breaches Deliver Features Faster Streamlined DevSecOps processes allow development teams to innovate and deliver features at a rapid pace Build Trust with Users Delivering secure software fosters trust and confidence with users promoting long term product success Whether you re a seasoned developer or just starting your journey with DevSecOps this book equips you with the knowledge and tools needed to build secure and scalable software applications that meet the demands of the modern software development landscape **Securing Cloud Containers** Sina Manavi,Abbas Kudrati,Muhammad Aizuddin Zali,2025-07-22 A practical and up to date roadmap to securing cloud containers on AWS GCP and Azure Securing Cloud Containers Building and Running Secure Cloud Native Applications is a hands on guide that shows you how to secure containerized applications and cloud infrastructure including Kubernetes The authors address the most common obstacles and pain points that security professionals DevOps engineers and IT architects encounter in the development of cloud applications including industry standard compliance and adherence to security best practices The book provides step by step instructions on the strategies and tools you can use to develop secure containers as well as real world examples of secure cloud native applications After an introduction to containers and Kubernetes you ll explore the architecture of containerized

applications best practices for container security security automation tools the use of artificial intelligence in cloud security and more Inside the book An in depth discussion of implementing a Zero Trust model in cloud environments Additional resources including a glossary of important cloud and container security terms recommendations for further reading and lists of useful platform specific tools for Azure Amazon Web Services and Google Cloud Platform An introduction to SecDevOps in cloud based containers including tools and frameworks designed for Azure GCP and AWS platforms An invaluable and practical resource for IT system administrators cloud engineers cybersecurity and SecDevOps professionals and related IT and security practitioners Securing Cloud Containers is an up to date and accurate roadmap to cloud container security that explains the why and how of securing containers on the AWS GCP and Azure platforms <u>Navigating the Digital Frontier: Case Studies in Online Learning for Career Advancement</u> KHRITISH SWARGIARY,2024-03-01 Navigating the Digital Frontier Case Studies in Online Learning for Career Advancement <u>Docker Mastery with Kubernetes Swarm from a Docker Captain</u> Elian Greystone,2025-06-13 Master Containers from Development to Deployment with Real World Skills from a Docker Captain Dive into Docker Kubernetes and Swarm the three pillars of modern container orchestration in this comprehensive hands on guide built for developers DevOps engineers and system administrators Whether you re just getting started or want to sharpen your container skills this book teaches you how to build manage and deploy containerized applications at scale using Docker best practices Kubernetes basics and Swarm orchestration Written with insights from a seasoned Docker Captain this guide goes beyond the basics to help you build production ready solutions that scale recover and perform in real world environments What You ll Learn Docker fundamentals images containers and volumes Docker Compose for multi container apps Building custom images and Dockerfile best practices Kubernetes essentials for developers Docker Swarm mode nodes services stacks and secrets Networking service discovery and orchestration Deploying applications in Kubernetes and Swarm CI CD pipeline integration with containers Monitoring scaling and securing containers Real world deployment workflows and troubleshooting This book is your complete roadmap to mastering container based development and orchestration in today s cloud native world *The The DevOps 2.2 Toolkit* Viktor Farcic,2018-03-13 Learn from an expert on how use self adapting and self healing systems within Docker Key Features Viktor Farcic shows you all aspects in the creation of self adapting and self healing systems in both a practical and hands on approach Learn how to choose a successful solution for metrics storage and query including InfluxDB Nagios and Sensu Prometheus and Graphite Discover how to integrate Docker Flow Monitor with Docker Flow Proxy How to apply Docker self healing and self adaptive to both services and infrastructure Book Description Building on The DevOps 2 0 Toolkit and The DevOps 2 1 Toolkit Docker Swarm Viktor Farcic brings his latest exploration of the Docker technology as he records his journey to explore two new programs self adaptive and self healing systems within Docker The DevOps 2 2 Toolkit Self Sufficient Docker Clusters is the latest book in Viktor Farcic s series that helps you build a full DevOps Toolkit This book in the series looks at Docker the tool designed to

make it easier in the creation and running of applications using containers In this latest entry Viktor combines theory with a hands on approach to guide you through the process of creating self adaptive and self healing systems Within this book Viktor will cover a wide range of emerging topics including what exactly self adaptive and self healing systems are how to choose a solution for metrics storage and query the creation of cluster wide alerts and what a successful self sufficient system blueprint looks like Work with Viktor and dive into the creation of self adaptive and self healing systems within Docker What you will learn Let Viktor Farcic show you all aspects in the creation of self adapting and self healing systems in both a practical and hands on approach Learn how to choose a successful solution for metrics storage and query including InfluxDB Nagios and Sensu Prometheus and Graphite Understand how to integrate Docker Flow Monitor with Docker Flow Proxy The creation of cluster wide alerts by creating alerts based on metrics How to apply self healing and self adaptive to both services and infrastructure Who this book is for This book is for professionals experienced with Docker looking to create both self adapting and self healing systems using the software   **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   **Docker Mastery** Walter Chambers,2025-09-10 Unlock the power of Docker and revolutionize your software development workflow with Docker Mastery A Visual Guide to Containerization and Deployment for Beginners This comprehensive guide is designed to take you from zero to Docker hero even if you ve never touched a container before We understand that technical concepts can be daunting which is why we ve created a uniquely visual learning experience Forget dense text and complex jargon this book utilizes clear diagrams screenshots and step by step instructions to make learning Docker incredibly easy and intuitive Features This book boasts a wealth of practical features designed to maximize your learning experience You ll find detailed explanations of core Docker concepts like images containers and registries accompanied by visual aids that bring abstract ideas to life We cover essential commands with practical examples walk you through setting up your Docker environment and guide you through building running and deploying your applications using Docker Compose Real world use cases are included to demonstrate the practical applications of Docker in various scenarios Finally we delve into Docker best practices to ensure you re building robust and scalable applications from the start Advantages Docker Mastery offers a significant advantage over other Docker tutorials Its visual approach simplifies complex topics ensuring quicker comprehension and knowledge retention The step by step instructions provide a practical hands on learning experience allowing you to apply what you learn immediately This book focuses on clear explanations and practical examples rather than overwhelming you with theoretical jargon accelerating your learning curve Our focus on beginners ensures that even those with limited technical experience can grasp the fundamental concepts and start using Docker effectively Benefits By mastering Docker you will Increase Development Efficiency Streamline your workflow and build test and deploy applications faster Improve Application Portability Run your applications consistently across different environments development testing production Enhance Collaboration Simplify team

collaboration by providing a standardized development environment Boost Scalability Easily scale your applications to handle increased traffic and demands Reduce Deployment Errors Minimize the risk of errors during deployment by using consistent environments Simplify DevOps Processes Automate tasks and improve overall operational efficiency Docker Mastery A Visual Guide to Containerization and Deployment for Beginners is your key to unlocking the potential of containerization Start your journey today and experience the transformative power of Docker   **Learn Docker in a Month of Lunches** Elton Stoneman,2020-06-13 Summary Go from zero to production readiness with Docker in 22 bite sized lessons Learn Docker in a Month of Lunches is an accessible task focused guide to Docker on Linux Windows or Mac systems In it you ll learn practical Docker skills to help you tackle the challenges of modern IT from cloud migration and microservices to handling legacy systems There s no excessive theory or niche use cases just a quick and easy guide to the essentials of Docker you ll use every day 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 applica tions in lightweight virtual containers that can be easily installed The results of this simple idea are huge Docker makes it possible to manage applications without creating custom infrastructures Free open source and battle tested Docker has quickly become must know technology for developers and administrators About the book Learn Docker in a Month of Lunches introduces Docker concepts through a series of brief hands on lessons Follow ing a learning path perfected by author Elton Stoneman you ll run containers by chapter 2 and package applications by chapter 3 Each lesson teaches a practical skill you can practice on Windows macOS and Linux systems By the end of the month you ll know how to containerize and run any kind of application with Docker What s inside Package applications to run in containers Put containers into production Build optimized Docker images Run containerized apps at scale About the reader For IT professionals No previous Docker experience required About the author Elton Stoneman is a consultant a former architect at Docker a Microsoft MVP and a Pluralsight author Table of Contents PART 1 UNDERSTANDING DOCKER CONTAINERS AND IMAGES 1 Before you begin 2 Understanding Docker and running Hello World 3 Building your own Docker images 4 Packaging applications from source code into Docker Images 5 Sharing images with Docker Hub and other registries 6 Using Docker volumes for persistent storage PART 2 RUNNING DISTRIBUTED APPLICATIONS IN CONTAINERS 7 Running multi container apps with Docker Compose 8 Supporting reliability with health checks and dependency checks 9 Adding observability with containerized monitoring 10 Running multiple environments with Docker Compose 11 Building and testing applications with Docker and Docker Compose PART 3 RUNNING AT SCALE WITH A CONTAINER ORCHESTRATOR 12 Understanding orchestration Docker Swarm and Kubernetes 13 Deploying distributed applications as stacks in Docker Swarm 14 Automating releases with upgrades and rollbacks 15 Configuring Docker for secure remote access and CI CD 16 Building Docker images that run anywhere Linux Windows Intel and Arm PART 4 GETTING YOUR CONTAINERS READY FOR PRODUCTION 17 Optimizing your Docker images for size speed and security 18

Application configuration management in containers 19 Writing and managing application logs with Docker 20 Controlling HTTP traffic to containers with a reverse proxy 21 Asynchronous communication with a message queue 22 Never the end

Docker Brayden Smith,2019-07-27 LEARN DOCKER BEST WAY Innovation in today s fast paced and interconnected society comes directly from the software Developers need to be able to provide an intuitive attractive and easily accessible experience for their users in order to succeed Docker s modern platform can provide that kind of innovation to all of its users with its unique method of packaging up applications into isolated independent and contained environments in order to maximize their portability as well as their efficiency Docker has been referred to as The modern platform for high velocity innovation and is currently the only independent container platform that can allow you to build share and even run any application easily and efficiently from anywhere you choose Of course there is a little bit more to the Docker platform than simply this innovation Docker is a unique platform for a tool that can be called nothing short of a game changer Such a unique and innovative service like Docker and all of its various products and services will also inherently require a much higher amount of learning and adjustment in order to understand and master when compared to other similar services There can be a bit of a learning curve with new and complicated services like this one and approaching it can even seem a little bit intimidating at first This is why this book exists This step by step guide to learning and mastering Docker is meant to help you do exactly what it says on the cover learn and master Docker This incredibly helpful book is meant to serve as your guide in understanding many of the various different products and services that Docker offers to its users as well as a number of the different features that exist within those products and services and how to use them as effectively as possible in order to maximize the benefits of using this incredibly unique service Additionally this book will go over all of the little ins and outs of the Docker platform and its various products and services including some tips tricks and shortcuts to help you even further in this goal This book will go over a number of different topics to give you all of the tools necessary to gain a complete understanding and mastery over Docker s various products and services These topics include things like the various reasons why you would and should choose Docker over any other possibly similar service as well as some short introductions and guides to many of the various products and services that docker offers to its users such as Docker Enterprise and Docker Desktop for Mac or Windows and the Docker Hub This book will also go over many of the different features of Docker s various products and services as well as how to actually use them at a fundamental level in order to help you to master this incredibly innovative platform for building and running applications as smoothly and efficiently as possible Scroll Up and Click the Buy Now Button **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   Learn Docker – Fundamentals of Docker 19.x Gabriel N. Schenker,2020-03-13 Explore the core functionality of containerizing your applications and making them production ready Key FeaturesGrasp basic to advanced Docker concepts with this comprehensive guideGet acquainted with Docker containers Docker images orchestrators cloud integration and networkingLearn to simplify dependencies and deploy and test containers in productionBook Description Containers enable you to package an application with all the components it needs such as libraries and other dependencies and ship it as one package Docker containers have revolutionized the software supply chain in both small and large enterprises Starting with an introduction to Docker fundamentals and setting up an environment to work with it you ll delve into concepts such as Docker containers Docker images and Docker Compose As you progress the book will help you explore deployment orchestration networking and security Finally you ll get to grips with Docker functionalities on public clouds such as Amazon Web Services AWS Azure and Google Cloud Platform GCP and learn about Docker Enterprise Edition features Additionally you ll also discover the benefits of increased security with the use of containers By the end of this Docker book you ll be able to build ship and run a containerized highly distributed application on Docker Swarm or Kubernetes running on premises or in the cloud What you will learnContainerize your traditional or microservice based applicationsDevelop modify debug and test an application running inside a containerShare or ship your application as an immutable container imageBuild a Docker Swarm and a Kubernetes cluster in the cloudRun a highly

distributed application using Docker Swarm or KubernetesUpdate or rollback a distributed application with zero downtimeSecure your applications with encapsulation networks and secretsTroubleshoot a containerized highly distributed application in the cloudWho this book is for This book is for Linux professionals system administrators operations engineers DevOps engineers and developers or stakeholders who are interested in getting started with Docker from scratch No prior experience with Docker containers is required Users with a Linux system would be able to take full advantage of this book

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 **Learn Docker in a Month of Lunches, Second Edition** Elton Stoneman,2025-10-14 Just the Docker you need to know in 22 bite sized lessons In Learn Docker in a Month of Lunches Docker expert Elton Stoneman guides through everything you need to know about Docker in 22 short lessons you can complete on your lunch break This freshly revised bestseller has been updated for modern tools and the latest versions of Linux Windows or Mac with new coverage of multi

platform builds cloud container services replatforming legacy Windows apps and Kubernetes In Learn Docker in a Month of Lunches Second Edition you ll learn how to Run applications in Docker containers on Linux and Windows Package applications as Docker images and share them on registries Model and run distributed applications with Docker Compose and Kubernetes Add instrumentation to containerized applications Build and deploy apps with Docker in a CI CD process Docker revolutionized the way engineers build software By bundling an application together with all its dependencies in a portable container that can be deployed almost anywhere Docker makes it possible to manage applications without creating custom infrastructures Free open source and battle tested Docker has quickly become must know technology for developers and administrators About the Technology Docker is a set of powerful tools to bundle software components in safe portable containers you can drop wherever they re needed Whether you re deploying a pre built application creating a secure test environment or packaging microservices you re probably going to use Docker This book gets you up to speed with the Docker skills you need without the history theory and other blah blah you don t About the Book Learn Docker in a Month of Lunches Second Edition teaches you the most important Docker techniques in just 22 short hands on lessons Each chapter guides you through an essential concept complete with a self contained lab to practice your new skill You ll explore building Docker apps adding observability running databases in containers safely migrating legacy systems and more There s even a primer on using Kubernetes to manage your containers What s Inside 22 short lessons and labs you can complete in an hour or less Cloud migration microservices and handling legacy systems All examples work on Linux Windows and macOS About the Readers Developers administrators and DevOps all welcome About the Author Elton Stoneman is a Docker Captain a multiyear Microsoft MVP and author of dozens of online training courses with Pluralsight and Udemy Table of Contents PART 1 1 Before you begin 2 Understanding Docker and running Hello World 3 Building your own Docker images 4 Packaging applications from source code into Docker images 5 Sharing images with Docker Hub and other registries 6 Using Docker volumes for persistent storage PART 2 7 Running multi container apps with Docker Compose 8 Supporting reliability with health checks and dependency checks 9 Adding observability with containerized monitoring 10 Running multiple environments with Docker Compose 11 Building and testing applications with Docker and Docker Compose PART 12 Running containers on different platforms 13 Replatforming the legacy Packaging and running Windows apps in Docker 14 Containers in the cloud with Microsoft Azure and Google Cloud 15 Kubernetes A primer 16 CI CD in the cloud with Docker and GitHub Actions PART 4 17 Optimizing your Docker images for size speed and security 18 Application configuration management in containers 19 Writing and managing application logs with Docker 20 Controlling HTTP traffic to containers with a reverse proxy 21 Asynchronous communication with a message queue 22 Never the end Get a free eBook PDF or ePub from Manning as well as access to the online liveBook format and its AI assistant that will answer your questions in any language when you purchase the print book   **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   Docker Deep Dive Nigel Poulton,2017-07-12 Feb 2018 This is the ultimate book for learning Docker brought to you by Docker Captain and leading educator in the container ecosystem Nigel Poulton   **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 **Mastering Docker on Windows** Michael D. Smith,2025-12-30 Master Docker on Windows 11 with advanced techniques for deployment security and performance to run scalable and production ready containers Key Features Learn advanced Docker techniques tailored for Windows including networking security and multi container orchestration Deploy scalable secure and high performance Docker containers in enterprise Windows environments Apply knowledge using real world projects hands on tutorials and clear steps to optimize and manage Docker in production Book DescriptionMastering Docker on Windows is your comprehensive guide to deploying securing and scaling containers in enterprise grade Windows environments Tailored for developers DevOps engineers and IT professionals this book dives deep into Docker s advanced features focusing on Windows 11 Starting with installation and setup you ll learn how to manage images networks and volumes on Windows The book explores multi container orchestration with Docker Compose container security best practices and performance optimization techniques to ensure your applications run efficiently and securely in production You ll also explore advanced topics such as running Docker in hybrid cloud environments and deploying AI ML models using the Docker GenAI stack Through practical examples and step by step tutorials you ll gain the skills to troubleshoot monitor and fine tune Docker environments at scale Throughout the book you ll build and evolve a small but realistic application stack that carries across chapters Whether you re modernizing enterprise Windows workloads or building scalable cloud native applications this book provides hands on strategies and expert insights to help you master Docker on Windows It s ideal for readers with basic Docker experience who want to elevate their skills for real world enterprise success What you will learn Install and configure Docker on Windows 11 Orchestrate multi container applications with Docker Compose Secure Docker containers using best practices Optimize Docker performance for enterprise deployments Deploy AI ML models using the Docker GenAI stack Run Docker in hybrid cloud Windows environments Troubleshoot and monitor Docker in production Who this book is for This book is ideal for experienced developers DevOps professionals system administrators and IT engineers who are already familiar with Docker basics and want to deepen their understanding of containerization in Windows environments If you re looking to take your Docker skills to the next level particularly for enterprise or production deployments on Windows this book is for

you   **Native Docker Clustering with Swarm** Fabrizio Soppelsa,Chanwit Kaewkasi,2016-12-20 Deploy configure and run clusters of Docker containers with Swarm About This Book Get to grips with Docker Swarm one of the key components of the Docker ecosystem Optimize Swarm and SwarmKit features for scaling massive applications through containers Learn about Docker s scheduling tricks high availability security and platform scalability Who This Book Is For If you are a Linux admin or a Docker user who wants to natively manage Docker clusters then this is the book for you What You Will Learn Create and manage Swarm Mode clusters of any size Get a backstage view of the biggest Swarms ever built Swarm2k and Swarm3k with their 2 300 and 4 700 nodes Discovery mechanisms and Raft Deploy your containerized app on Swarm Administer Swarm clusters on AWS Azure and DigitalOcean Integrate Flocker volumes with Swarm Create and manage Swarms on OpenStack Magnum In Detail Docker Swarm serves as one of the crucial components of the Docker ecosystem and offers a native solution for you to orchestrate containers It s turning out to be one of the preferred choices for Docker clustering thanks to its recent improvements This book covers Swarm Swarm Mode and SwarmKit It gives you a guided tour on how Swarm works and how to work with Swarm It describes how to set up local test installations and then moves to huge distributed infrastructures You will be shown how Swarm works internally what s new in Swarmkit how to automate big Swarm deployments and how to configure and operate a Swarm cluster on the public and private cloud This book will teach you how to meet the challenge of deploying massive production ready applications and a huge number of containers on Swarm You ll also cover advanced topics that include volumes scheduling a Libnetwork deep dive security and platform scalability Style and approach A comprehensive guide that covers all aspects of Docker Swarm from setup to customization

  Troubleshooting Docker Vaibhav Kohli,Rajdeep Dua,John Wooten,2017-03-30 Strategically design troubleshoot and automate Docker containers from development to deployment About This Book Utilize current and emergent technologies for effective Docker orchestration and management A step by step guide to diagnosing and fixing problems with Docker containers Who This Book Is For This book is intended for seasoned solutions architects developers and programmers system engineers and administrators to help you troubleshoot common areas of Docker containerization If you are looking to build production ready Docker containers for automated deployment you will be able to master and troubleshoot both the basic functions and the advanced features of Docker Advanced familiarity with the Linux command line syntax unit testing the Docker Registry Github and leading container hosting platforms and Cloud Service Providers CSP are the prerequisites What You Will Learn Install Docker ecosystem tools and services Microservices and N tier applications Create re usable portable containers with help of automation tools Network and inter link containers Attach volumes securely to containers Consume and troubleshoot Docker APIs Troubleshooting issue of Docker deployment in Public cloud Ease the process of container management with Kubernetes In Detail This book will traverse some common best practices to for complex application scenarios where troubleshooting can be successfully employed to provide the repeatable processes and advantages that

containers can deliver This book will be a practical guide showing how to fix real life issues related to installation memory Dockerfile syntax connection authorization networking and so on in Docker This book will also teach how to solve errors that occur during advanced setup and administration and deployment in a step by step fashion By sequentially working through the real world production scenarios in each chapter throughout the book you will gain insight into and mastery of common areas not only for effective troubleshooting but ways and means to avoid troubleshooting in the first place This book will also cover tips and tricks that make the workflow easier Style and approach An easy to follow guide full of interactive examples of real world development and deployment scenarios Ample screenshots workflows complementary tools and related terminal commands are provided to address a wide range of practical and situational applications   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

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