

# Learn Docker Fundamentals Of Docker 18 X Everythi

**A Complete Guide to Docker for Operations and Development** Engy Fouda.2022 Harness the power of Docker by containerizing your code with all its libraries and file systems to consistently run anywhere. This book is your source for learning all about Docker operations and development. It's divided into two units and focuses on the topics that the Docker Certified Associate exam covers. Unit 1 covers the Docker fundamentals, such as Docker Enterprise for Operations, Docker Enterprise for Developers, Swarm, and an introduction to Kubernetes. You will learn how to install Docker Community Edition, Docker Enterprise Edition with Kubernetes and CLI. Also, you will learn the Docker cycle, container lifecycle, develop applications in any language, wrap, build, ship, and deploy them for production. Finally, you will learn how to create a Swarm cluster, deploy an app to it, and manage it with the best practices according to the current technologies. Unit 2 provides quizzes to help you prepare for the certification test. The DCA exam format and the question style has changed since Mirantis acquired Docker. To accommodate this, the quizzes mirror these changes. You will:

- Understand the difference between containerization and virtualization
- Install Docker CE on various platforms and manage the resources
- Write Dockerfile, Docker Compose YAML, and Kubernetes manifest YAML files
- Compare microservices and monolithic applications
- Containerize monolithic applications.

*The Ultimate Docker Container Book - Third Edition: Build, Test, Ship, and Run Containers with Docker and Kubernetes* Gabriel N. Schenker. 2023-08-31 Build, ship, and run containers from scratch with Docker and Kubernetes be it on premise or in the cloud Key Features: Master Docker container setup, operation, and debugging Use Docker compose for managing multi-service applications Navigate orchestrators like Kubernetes and Docker swarmkit Purchase of the print or Kindle book includes a free PDF eBook Book Description: The Ultimate Docker Container Book, 3rd edition enables you to leverage Docker containers for streamlined software development. You'll uncover Docker fundamentals and how containers improve software supply chain efficiency and enhance security. You'll start by learning practical skills such as setting up Docker environments, handling stateful components, running and testing code within containers, and managing Docker images. You'll also explore how to adapt legacy applications for containerization and understand distributed application architecture. Next, you'll delve into Docker's networking model, software-defined networks for secure applications, and Docker compose for managing multi-service applications along with tools for log analysis and metrics. You'll further deepen your understanding of popular orchestrators like Kubernetes and Docker swarmkit, exploring their key concepts, and deployment strategies for resilient applications. In the final sections, you'll gain insights into deploying containerized applications on major cloud platforms, including Azure, AWS, and GCE and discover techniques for production monitoring and troubleshooting. By the end of this book, you'll be well-equipped to manage and scale containerized applications effectively. What You Will Learn: Understand the benefits of using containers Manage Docker containers effectively Create and manage Docker images Explore data volumes and environment variables Master distributed application architecture Deep dive into Docker networking Use Docker Compose for multi-service

apps Deploy apps on major cloud platforms Who this book is for: This book is for Linux professionals, system administrators, operations engineers, DevOps engineers, software architects, and developers looking to work with Docker and Kubernetes from scratch. A basic understanding of Docker containers is recommended, but no prior knowledge of Kubernetes is required. Familiarity with scripting tools such as Bash or PowerShell will be advantageous.

*Getting Started with Containerization* Gabriel N. Schenker, Hideto Saito, Hui-Chuan Chloe Lee, Ke-Jou Carol Hsu. 2019-03-27 Choose the smarter way to learn about containerizing your applications and running them in production. Key Features Deploy and manage highly scalable, containerized applications with Kubernetes Build high-availability Kubernetes clusters Secure your applications via encapsulation, networks, and secrets Book Description Kubernetes is an open source orchestration platform for managing containers in a cluster environment. This Learning Path introduces you to the world of containerization, in addition to providing you with an overview of Docker fundamentals. As you progress, you will be able to understand how Kubernetes works with containers. Starting with creating Kubernetes clusters and running applications with proper authentication and authorization, you'll learn how to create high-availability Kubernetes clusters on Amazon Web Services (AWS), and also learn how to use kubeconfig to manage different clusters. Whether it is learning about Docker containers and Docker Compose, or building a continuous delivery pipeline for your application, this Learning Path will equip you with all the right tools and techniques to get started with containerization. By the end of this Learning Path, you will have gained hands-on experience of working with Docker containers and orchestrators, including SwarmKit and Kubernetes. This Learning Path includes content from the following Packt products: *Kubernetes Cookbook - Second Edition* by Hideto Saito, Hui-Chuan Chloe Lee, and Ke-Jou Carol Hsu *Learn Docker - Fundamentals of*

Docker 18.x by Gabriel N. Schenker  
What you will learn  
Build your own container cluster  
Run a highly distributed application with Docker Swarm or Kubernetes  
Update or rollback a distributed application with zero downtime  
Containerize your traditional or microservice-based application  
Build a continuous delivery pipeline for your application  
Track metrics and logs for every container in your cluster  
Implement container orchestration to streamline deploying and managing applications  
Who this book is for  
This beginner-level Learning Path is designed for system administrators, operations engineers, DevOps engineers, and developers who want to get started with Docker and Kubernetes. Although no prior experience with Docker is required, basic knowledge of Kubernetes and containers will be helpful.

**Docker Step-by-Step** Brandon Shaw. 2020-11-28  
Learn how to use the open-source software platform that will help you to create, deploy, and run your applications using containers! This step-by-step guide is the essential introduction you need to Docker and the proprietary process of containerization. With the information in this book, you will learn how to set up a coding environment on Linux, Mac, or Windows workstation and you will learn each of the commands that you will need in order to run and manage the images and containers in your environment. This guide will take you from a beginner's knowledge of Docker, all the way to expert. You will be able to navigate the DockerFile and you will learn how to use Docker to build enterprise-grade Docker images. This guide will teach you about Docker swarm, Docker volumes, and Docker networks so you can use all of these features with Docker stacks. This will allow you to deploy, define, and maintain completely scalable and fault-tolerant multi-container applications. In this guide, you will learn: How to set up your Docker workstation on several platforms How to utilize a number of commands with parameters that are specific to Docker How to create and use Docker volumes How

to scale your multi-container operations so growth is not only possible, it's assured So much more! Don't wait; get your introduction to Docker today and learn how you can implement this revolutionary platform with your team, on the most popular operating systems on the market today. Buy your copy now and get started on containerizing your applications!

*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.

**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 out 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 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.

**Learning Docker Networking** Rajdeep Dua, Santosh Kumar Konduri, Vaibhav Kohli. 2016-02-23  
Become a proficient Linux administrator by learning the art of container networking with elevated efficiency using Docker  
About This Book • Set up, configure, and monitor a virtual network of containers using a bridge network and virtual switches • Master the skill of networking Docker Containers using frameworks such as Kubernetes, Docker Swarm, and Mesosphere • Acquire hands-on experience through practical examples of Docker networking spanning multiple containers, over multiple hosts, clubbed with various frameworks  
Who This Book Is For If you are a Linux administrator who wants to learn networking using Docker to ensure the efficient administration of core elements and applications, then this book is for you. Basic knowledge of LXC/Docker is assumed.  
What You Will Learn • Get to know the basics of networking and see how Docker networking works • Expose the strengths and weaknesses of the current Docker network implementation and third party landscape • Understand Docker networking spanning multiple containers over multiple hosts through practical examples • Observe the pitfalls of Docker networking and how to overcome them • Learn how Docker networking works for Docker Swarm and Kubernetes • Configure Networking using Docker's container network model (CNM) • Explore OpenvSwitch to connect contain  
In Detail Docker is a Linux container implementation that enables the creation of light weight portable development and production environments. These environments



can be updated incrementally. Docker achieves this by leveraging containment principles like cgroups and Linux namespaces along with Overlay filesystem based portable images. Docker provides the networking primitives that allow administrators to specify how different containers network with each application and connect each of its components, then distribute them across a large number of servers and ensure coordination between them irrespective of the host or VM they are running in. This book will show you how to create, deploy, and manage a virtual network for connecting containers spanning single or multiple hosts. Style and approach This step-by-step guide covers the fundamentals relating to typical applications with a practical approach. There is a focus on providing the practical skills required to develop applications, with a summary of the key concepts where necessary.

**Docker** Mark Reed. 2020-08-21 Do you want to easily create, deploy and run apps using containers? Do you want to collaborate seamlessly on your app's operating system with a team? This book will show how Docker could be the answer for you! Docker is the perfect tool that was designed specifically to make it easier for you to create, deploy and run applications by using containers which allow developers to package an application with all of the parts required. It provides a lightweight environment to run codes and is perfect as a version control system for your entire app's operating system. Now, with Docker: The Ultimate Beginner's Guide to Learning Docker Step-By-Step, you can learn more about this versatile system and what it can do for you, helping to: - Realize a greater return on investment- Build a container image and use it across every step of the deployment process- Use it in a wide variety of environments- Reduce deployment to seconds- Ensure your applications and resources are isolated and segregated- Have complete control over traffic flow and management- And more... Docker has fast become one of the go-to systems for those

who want to automate the deployment of applications inside software containers and its versatility and ease of use functions make it perfect for beginners who want to learn more. Get a copy of *Docker: The Ultimate Beginners Guide to Learn Docker Step-By-Step* now and see what it could do for you!

*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

**The Docker Workshop** Vincent Sesto, Onur Yılmaz, Sathisara 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 Features Get a working

understanding of Docker containers by incorporating them in your development process Complete interesting exercises to learn how to secure and control access of your containers Work 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 learn Get a solid understanding of how Docker containers work Network Docker images and environments to allow communication between services Build and publish docker images from a CI/CD pipeline Use Docker Swarm to implement production-ready environments Find out how to replace Swarm with Kubernetes clusters Extend your Docker images with Plugins Who 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.

**Docker** Dennis Hutten.2018-05-11 This tutorial explains the various aspects of the Docker Container service. Starting with the basics of Docker which focuses on the installation and configuration of Docker, it gradually moves on to advanced topics such as Networking and Registries. The last few chapters of this tutorial cover the development aspects of Docker and how you can get up and running on the development environments using Docker Containers. This tutorial is meant for those who are interested in learning Docker as a container service. This product has spread like wildfire across the industry and is really making an impact on the development of new generation applications. So anyone who is interested in learning all the aspects of Docker should go through this tutorial. The prerequisite is that the readers should be familiar with the basic concepts of Windows and the various programs that are already available on the Windows operating system. In addition, it would help if the readers have some exposure to Linux.

*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

[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 learn  
Create multi-container applications using Docker Compose  
Use Docker Compose for daily development  
Connect microservices leveraging Docker network fundamentals  
Add monitoring to services leveraging Prometheus  
Deploy to production using Docker Compose  
Translate Compose files to Kubernetes deployments  
Who 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.

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 intended 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.

**Docker Certified Associate (DCA): Exam Guide** Francisco Javier Ramirez Urea.2020-09-28 Pass the DCA exam and enhance your DevOps skills by achieving faster deployments, reduced downtime, and continuous integration and continuous delivery Key FeaturesStrengthen your knowledge of

container fundamentals and exploit Docker networking, storage, and image managementLeverage Docker Swarm to deploy and scale applications in a clusterBuild your Docker skills with the help of sample questions and mock testsBook Description Developers have changed their deployment artifacts from application binaries to container images, and they now need to build container-based applications as containers are part of their new development workflow. This Docker book is designed to help you learn about the management and administrative tasks of the Containers as a Service (CaaS) platform. The book starts by getting you up and running with the key concepts of containers and microservices. You'll then cover different orchestration strategies and environments, along with exploring the Docker Enterprise platform. As you advance, the book will show you how to deploy secure, production-ready, container-based applications in Docker Enterprise environments. Later, you'll delve into each Docker Enterprise component and learn all about CaaS management. Throughout the book, you'll encounter important exam-specific topics, along with sample questions and detailed answers that will help you prepare effectively for the exam. By the end of this Docker containers book, you'll have learned how to efficiently deploy and manage container-based environments in production, and you will have the skills and knowledge you need to pass the DCA exam. What you will learnUnderstand the key concepts of containerization and its advantagesDiscover how to build secure images and run customized Docker containersExplore orchestration with Docker Swarm and KubernetesBecome well versed with networking and application publishing methodsUnderstand the Docker container runtime environment and customizationsDeploy services on Docker Enterprise with Universal Control PlaneGet to grips with effectively managing images using Docker Trusted RegistryWho this book is for If you are a system administrator, a developer, a DevOps engineer, or any professional interested in enhancing your



career portfolio by gaining Docker certification, this book is for you. In order to understand container networking and the use of load balancers and proxies to provide a full-featured Containers-as-a-Service environment, Linux and Windows user knowledge with some networking skills will be necessary.

Docker Michael Brian.2019-12-14 If you're reading this then you're interested in learning about Docker and how it works! Operators use Docker to run and manage apps side by side in isolated containers to get better compute density. Enterprises use Docker to build agile software delivery pipelines to ship new features faster, more securely and of confidence for both Linux and Windows software. Instances of images are called containers; they are the objects you'll deal with most. Containers are completely isolated environments; they can have their own processes for services, their own network interfaces, their own mounts just like washing machines except they all share the same OS kernel. An image is a package or a template just like a VM template that you might have worked with in the virtualization world. It is used to create one or more containers. Containers are running instances of images that are isolated and have their own environments and set of processes. In this book, we are coming up with an introduction and technical information about Docker. Everything is well explained in layman terms to help beginners learn, understand and master Docker very fast. 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.

**Docker Orchestration** Randall Smith. 2017-01-24 A concise, fast-paced guide to orchestrating and deploying scalable services with Docker About This Book Explore the new features added to the core Docker Engine to make multi-container orchestration easy Leverage tools such as Docker Machine, Swarm, Compose, and third-party tools such as Kubernetes, Mesosphere, and CoreOS to orchestrate containers Use Docker Compose with Swarm and apply rolling updates for zero downtime deployments Who This Book Is For This book is aimed at Sysadmins and DevOps engineers who know what Docker does and are now looking to manage multiple containers on multiple hosts using the orchestration feature. What You Will Learn Build scalable, reliable services with Docker See how to manage a service in Docker using Docker Swarm, Kubernetes, and Mesosphere Discover simpler orchestration tools such as CoreOS/Fleet and Rancher Cattle Understand cluster-wide logging, system monitoring, and troubleshooting Build, test, and deploy containers using Continuous Integration Deploy cluster hosts on cloud services and automate your infrastructure In Detail Docker orchestration is what you need when transitioning from deploying containers individually on a single host to deploying complex multi-container apps on many machines. This book covers the new orchestration features of Docker 1.12 and helps you efficiently build, test, and deploy your application using Docker. You will be shown how to build multi-container applications using Docker Compose. You will also be introduced to the building blocks for multi-host Docker clusters such as registry, overlay networks, and shared storage using practical examples. This book gives an overview of core tools such as Docker Machine, Swarm, and Compose which will enhance your orchestration skills. You'll learn how to set up a swarm using the decentralized building block. Next, you'll be shown how to make the most out of the in-built orchestration feature of Docker engine and you'll use third-party tools such as Kubernetes, Mesosphere, and CoreOS to orchestrate your

existing process. Finally, you will learn to deploy cluster hosts on cloud services and automate your infrastructure. Style and approach This comprehensive guide will take you through the orchestration feature of Docker. Using practical examples, you will discover various tools that can be used to manage multiple containers with ease.

**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 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.

*Docker Demystified* Saibal Ghosh.2020-10-03 Build robust and secure applications using the building blocks of DockerKey Featuresa- Understand the fundamentals of Containers.a- Understand the working of the entire Docker ecosystem.a- Learn how to utilize Docker Networking capabilities to its

fullest.a- Learn how to secure Docker Containers.a- Get familiar and work with Docker Enterprise Edition.DescriptionThe 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 learna- Learn how to use Docker Images.a- Get to know more about Docker Storage.a- Learn how to use Volume plugins in Docker services.a- Learn how to deploy a service to the Swarm.a- Learn how to manage, scale, and maintain containerized applications.Who this book is forThis 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 Contents1. Introduction to Containerization and Docker2. Containers and Images3. Storage Drivers and Volumes4. The Container Network Model and the Docker Bridge5. Docker Swarm6. Docker Networking7. Docker Security-18. Docker Security-IIAbout the AuthorsSaibal Ghosh has spent a substantial part of his career working with databases. However, in the last few years, he gravitated towards the cloud, cloud security, and newer technologies like Docker and Kubernetes. He has developed a deep understanding of these concepts and technologies bolstered by the insight gained from many years of experience working with applications, databases, storage and infrastructure, and the understanding of how data is stored, moved, and secured.He currently works as a Principal Architect in Ericsson India Ltd. and spends a substantial amount of time playing around with Docker and Kubernetes. He holds numerous certifications around applications,

databases, cloud, and cloud security and is also a member of Leader's Excellence, Harvard Square. Your LinkedIn

Profile: <https://www.linkedin.com/in/saibal-ghosh-mle%E2%84%A0-ccsk-prince2-%C2%AE-469b0a7/>

**Docker Tutorial for Beginners** Andrew Lee. 2019-04-18 The Fastest way to learn Docker Programming! Docker Tutorial For Beginners gets right to the point when learning Docker. All the answers you need to start with docker are inside. Cut through the learning curve with the information in this book. Effortlessly program organizations with docker. Docker is a type of computer program that is able to do virtualization at the operating system level. All aspects of docker are explained in this book.

Practical Docker with Python Sathyajith Bhat. 2022 Learn the fundamentals of containerization and get acquainted with Docker. This second edition builds upon the foundation of the first book by revising all the chapters, updating the commands, code, and examples to meet the changes in Docker. It also introduces a new chapter on setting up your application for production deployment and breaks down terminologies like Dockerfile and Docker volumes while taking you on a guided tour of building a telegram bot using Python. You'll start with a brief history of how containerization has changed over the years. Next, we look at how to install (including using the new WSL2 mode) and get started with Docker. The next couple of chapters will focus on understanding the Dockerfile, including the structure and the core instructions used in building a Docker image. You'll also see how to distribute Docker images using Docker hub and other private registries. From there, you'll look at using Docker volumes for persisting data. Then learn how to run multi-container applications with Docker compose and learn inter-container networking works with Docker networks. Finally, you'll look at how to prepare a containerized application for production deployments. Throughout

the book you'll apply the techniques learned through the chapters by building a Telegram messenger Chatbot and see how much easier Docker makes it possible to build, release, contribute and distribute an application. In addition, the book shows how optimize the Docker images for production servers by using multi-stage builds and improve the reliability of your services by using health checks and restart policies. You will: Compare the difference between containerization and virtualization Understand the Dockerfile and converting your application to Docker image Define and run multi-container applications with Docker compose Review data persistency with Docker volumes.

*Docker & Kubernetes Fundamentals* Ajay Kumar.2019-09-07 Docker and Kubernetes are changing the way you build, ship, and manage your applications. In this book Docker and Kubernetes Fundamentals, you will learn the fundamentals of Docker and Kubernetes. First, you will learn the basics of what a container is and how it enables cloud-native application designs. Next, you will explore the roles of Docker and Kubernetes, as well as the basics of how they work. Finally, you will discover how to prepare yourself and your organization to thrive in a container world. When you are finished with the book you will have everything you need to take your container journey to the next level.

*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.

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production Docker in production: Dealing with challenges

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.

Learn Docker in a Month of Lunches Elton Stoneman. 2020-08-04 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 applications 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. Following 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.

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**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 applications 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

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Package applications to run in containers  
Put containers into production  
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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

Getting Started with Docker Nigel Poulton.2023-10-20 Do you need learn Docker and containers, and do you like to learn by doing? If yes, this is the book for you. Getting Started with Docker -- brought to you by best-selling author, and Docker Captain, Nigel Poulton -- assumes zero prior experience and gets you up-to-speed fast. You'll learn what Docker is, why it's so important, and where it's going in the future. You'll also get hands-on experience using Docker to deploy and manage multi-container microservices apps. You'll perform all of the following hands-on tasks: - Run your first container - Containerize a sample app - Work with Docker Hub - Deploy and manage a multi-container app with Docker Compose - Deploy a WebAssembly app with Docker Along the way, Nigel will explain everything as clearly as possible and demystify all the jargon. When you're done, you'll be ready to start working with Docker and containers!

**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. Chelladurai,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 and Docker - An Enterprise Guide** Scott Surovich, Marc Boorshtein. 2020-11-06

Apply Kubernetes beyond the basics of Kubernetes clusters by implementing IAM using OIDC and Active Directory, Layer 4 load balancing using MetalLB, advanced service integration, security, auditing, and CI/CD Key Features Find out how to add enterprise features to a Kubernetes cluster with theory and exercises to guide you Understand advanced topics including load balancing, externalDNS, IDP integration, security, auditing, backup, and CI/CD Create development clusters for unique testing requirements, including running multiple clusters on a single server to simulate an enterprise environment Book Description Containerization has changed the DevOps game completely, with Docker and Kubernetes playing important roles in altering the flow of app creation and deployment. This book will help you acquire the knowledge and tools required to integrate Kubernetes clusters in an enterprise environment. The book begins by introducing you to Docker and Kubernetes fundamentals, including a review of basic Kubernetes objects. You'll then get to grips with containerization and understand its core functionalities, including how to create ephemeral multinode clusters using kind. As you make progress, you'll learn about cluster architecture, Kubernetes cluster deployment, and cluster management, and get started with application deployment. Moving on, you'll find out how to integrate your container to a cloud platform and integrate tools including MetalLB, externalDNS, OpenID connect (OIDC), pod security policies (PSPs), Open Policy Agent (OPA), Falco, and Velero. Finally, you will discover how to deploy an entire platform to the cloud using continuous integration and continuous delivery (CI/CD). By the end of this Kubernetes book, you will have learned how to create development clusters for testing applications and Kubernetes components, and be able to secure and audit a cluster by implementing various open-source solutions including OpenUnison, OPA, Falco, Kibana, and Velero. What you will learn Create a multinode Kubernetes cluster using kind Implement Ingress, MetalLB, and

ExternalDNS Configure a cluster OIDC using impersonation Map enterprise authorization to Kubernetes Secure clusters using PSPs and OPA Enhance auditing using Falco and EFK Back up your workload for disaster recovery and cluster migration Deploy to a platform using Tekton, GitLab, and ArgoCD Who this book is for This book is for anyone interested in DevOps, containerization, and going beyond basic Kubernetes cluster deployments. DevOps engineers, developers, and system administrators looking to enhance their IT career paths will also find this book helpful. Although some prior experience with Docker and Kubernetes is recommended, this book includes a Kubernetes bootcamp that provides a description of Kubernetes objects to help you if you are new to the topic or need a refresher.

**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.

**Kubernetes Vs. Docker** Brayden SMITH.2019-11-29 LEARN Kuberenetes Vs Docker BEST WAY ! Your hands-on Quick-start guide ! This Kuberenetes Vs Docker book contains everything you need to know about Kubernetes and Docker and has the following guides: A Step-by-Step Guide to Learn and Master Kubernetes A Step-by-Step Guide to Learn and Master Docker Topics Covered in This Book Include: Guide 1) A Step-by-Step Guide to Learn and Master Kubernetes If you have been in the dark about how to use Kubernetes to its full potential or are hoping to maximize your knowledge of this platform, then Kubernetes: A Step-By-Step Guide to learn and Master Kubernetes is the book for you! From Deployments to Pods, Services, Extensions, Client Libraries, and a host of other valuable aspects of the Kubernetes platform, this book is perfect for readers interested in mastering this platform. Not to mention, this text makes effective use of practical examples that will augment your use of the platform so that you can achieve and surpass whatever goals that you have. In this way, a

true step-by-step approach is presented. Moving through all of the various features of the platform, readers will gain access to knowledge that will pay dividends throughout their use of Kubernetes. Not to mention, it will not be surprising if many readers continue to use this book as a reference whenever they are confronted by issues or struggles when using the platform. The detailed nature of this book gives readers the perfect balance of background information and practical tools and insight. Hence, go ahead and dive right into the contents of the book! Inside, you will find: The precise manner in which Kubernetes functions, including what it was developed for and how it can assist users; The limitations of the platform, along with alternative measures to circumvent these limitations; Each of the various aspects and features of the platform; The benefits of Kubernetes Extensions; ...and much more!

Guide 2) A Step-by-Step Guide to Learn and Master Docker

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. 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. Remember you can never compare a well-structured (paid) book with free online resources like Youtube Channels, Discussion Forums and other online courses (mostly out-dated). Now if you are really serious about Docker & Kubernetes ? then Scroll Up and Click the Buy Now Button!

**The the Docker Workshop** Vincent Sesto, Onur Yilmaz, 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 Features Get a working understanding of Docker containers by incorporating them in your development process Complete interesting exercises to learn how to secure and control access of your containers Work 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 learn

- Get a solid understanding of how Docker containers work
- Network Docker images and environments to allow communication between services
- Build and publish docker images from a CI/CD pipeline
- Use Docker Swarm to implement production-ready environments
- Find out how to replace Swarm with Kubernetes clusters
- Extend your Docker images with Plugins

Who 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.

**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 Features**Grasp 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 production

**Book 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 learn

- Containerize your traditional or microservice-based applications
- Develop, modify, debug, and test an application running inside a container
- 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 with encapsulation, networks, and secrets
- Troubleshoot a containerized, highly distributed application in the cloud

Who 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.

**Practical Docker with Python** Sathyajith Bhat. 2018-07-26 Learn the key differences between containers and virtual machines. Adopting a project based approach, this book introduces you to a simple Python application to be developed and containerized with Docker. After an introduction to Containers and Docker you'll be guided through Docker installation and configuration. You'll also learn basic functions and commands used in Docker by running a simple container using Docker commands. The book then moves on to developing a Python based Messaging Bot using required libraries and virtual environment where you'll add Docker Volumes to your project, ensuring your container data is safe. You'll create a database container and link your project to it and finally, bring up the Bot-associated database all at once with Docker Compose. What You'll Learn Build, run, and

distribute Docker containers Develop a Python App and containerize it Use Dockerfile to run the Python App Define and run multi-container applications with Docker Compose Work with persisting data generated by and used by Docker containers Who This Book Is For Intermediate developers/DevOps practitioners who are looking to improve their build and release workflow by containerizing applications

*Docker* Matthew Gimson.2015-11-19 Docker Everything You Need to Know to Master Docker (Docker Containers, Linking Containers, Whalesay Image, Docker Installing on Mac OS X and Windows OS) This book explores the details of Docker in detail. After reading it, you will become an expert in using it. It begins by defining what it is, when it was developed, its origin, and what it is used for. You will also know the environments in which to run the Docker. The book then guides you on how to install the Docker on Mac OS X. Most people think that this is impossible since the Docker is native to Linux OS. The book will also guide you on how to install and run the Docker on Windows OS. Most of the Docker commands used in these operating systems are explored. You will learn how to start, stop and upgrade the Docker in various operating systems. Docker images and containers are also discussed in detail. You will learn what they are and how to use them. The book will also guide you on how to find a whalesay image from the Docker Hub and then use it on your local system. The book will also guide you on how to build your own Docker image. You will then create a repository in the Docker Hub where you will upload the image which you have just created. You will also learn how to download the image onto your system for your own use. The book will also guide you on how to link the various Docker containers. The following topics have been explored in this book: Definition Installing Docker on Mac OS X Docker Images and Containers Finding and Running a Whalesay Image Building Docker Images Creating a Docker Repository and Account Tagging,

Pushing and Pulling the Image Docker Containers Linking Containers Installing Docker on WindowsDownload your copy of Docker by scrolling up and clicking Buy Now With 1-Click button.

**The Ultimate Docker Container Book** Dr. Gabriel N. Schenker.2023-08-31 Build, ship, and run containers from scratch with Docker and Kubernetes be it on premise or in the cloud Key Features Master Docker container setup, operation, and debugging Use Docker compose for managing multi-service applications Navigate orchestrators like Kubernetes and Docker swarmkit Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionThe Ultimate Docker Container Book, 3rd edition enables you to leverage Docker containers for streamlined software development. You'll uncover Docker fundamentals and how containers improve software supply chain efficiency and enhance security. You'll start by learning practical skills such as setting up Docker environments, handling stateful components, running and testing code within containers, and managing Docker images. You'll also explore how to adapt legacy applications for containerization and understand distributed application architecture. Next, you'll delve into Docker's networking model, software-defined networks for secure applications, and Docker compose for managing multi-service applications along with tools for log analysis and metrics. You'll further deepen your understanding of popular orchestrators like Kubernetes and Docker swarmkit, exploring their key concepts, and deployment strategies for resilient applications. In the final sections, you'll gain insights into deploying containerized applications on major cloud platforms, including Azure, AWS, and GCE and discover techniques for production monitoring and troubleshooting. By the end of this book, you'll be well-equipped to manage and scale containerized applications effectively.What you will learn Understand the benefits of using containers Manage Docker containers effectively Create and manage Docker images Explore data volumes and environment variables Master distributed

application architecture Deep dive into Docker networking Use Docker Compose for multi-service apps Deploy apps on major cloud platforms Who this book is for This book is for Linux professionals, system administrators, operations engineers, DevOps engineers, software architects, and developers looking to work with Docker and Kubernetes from scratch. A basic understanding of Docker containers is recommended, but no prior knowledge of Kubernetes is required. Familiarity with scripting tools such as Bash or PowerShell will be advantageous.

**Continuous Delivery with Docker and Jenkins** Rafal Leszko. 2022-05-04 Create a complete continuous delivery process using modern DevOps tools such as Docker, Jenkins, Kubernetes, Ansible, Terraform, and many more Key Features • Build reliable and secure applications using Docker containers • Create a highly available environment to scale Jenkins and your services using Kubernetes • Automate your release process end-to-end Book Description This updated third edition of Continuous Delivery with Docker and Jenkins will explain the advantages of combining Jenkins and Docker to improve the continuous integration and delivery process of app development. You'll start by setting up a Docker server and configuring Jenkins on it. Next, you'll discover steps for building applications and microservices on Dockerfiles and integrating them with Jenkins using continuous delivery processes such as continuous integration, automated acceptance testing, configuration management, and Infrastructure as Code. Moving ahead, you'll learn how to ensure quick application deployment with Docker containers, along with scaling Jenkins using Kubernetes. Later, you'll explore how to deploy applications using Docker images and test them with Jenkins. Toward the concluding chapters, the book will focus on missing parts of the CD pipeline, such as the environments and infrastructure, application versioning, and non-functional testing. By the end of this continuous integration and continuous delivery book, you'll have gained the skills you need to



enhance the DevOps workflow by integrating the functionalities of Docker and Jenkins. What you will learn

- Grasp Docker fundamentals and dockerize applications for the CD process
- Understand how to use Jenkins on-premises and in the cloud
- Scale a pool of Docker servers using Kubernetes
- Write acceptance tests using Cucumber
- Run tests in the Docker ecosystem using Jenkins
- Provision your servers and infrastructure using Ansible and Terraform
- Publish a built Docker image to a Docker registry
- Deploy cycles of Jenkins pipelines using community best practices

Who this book is for The book is for DevOps engineers, system administrators, Docker professionals, or anyone who wants to explore the power of working with Docker and Jenkins together. No prior knowledge of DevOps is required to get started.

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