

Where To Download Docker 5 Books In 1  
Beginners Guide Tips Tricks Simple Effective  
Strategies Best Practices Advanced Strategies

# Docker 5 Books In 1 Beginners Guide Tips Tricks Simple Effective Strategies Best Practices Advanced Strategies

**Learn how to deploy and test Linux-based Docker containers with the help of real-world use cases** **Key Features** **Understand how to make a deployment workflow run smoothly with Docker containers** **Learn Docker and DevOps concepts such as continuous integration and continuous deployment (CI/CD)** **Gain insights into using various Docker tools and libraries** **Book Description** Docker is the de facto standard for containerizing apps, and with an increasing number of software projects migrating to containers, it is crucial for engineers and DevOps teams to understand how to build, deploy, and secure Docker environments effectively. Docker for Developers will help you understand Docker containers from scratch while taking you through best practices and showing you how to address security concerns. Starting with an introduction to Docker, you'll learn how to use containers and VirtualBox for development. You'll explore how containers work and develop projects within them after you've explored different ways to

**deploy and run containers. The book will also show you how to use Docker containers in production in both single-host set-ups and in clusters and deploy them using Jenkins, Kubernetes, and Spinnaker. As you advance, you'll get to grips with monitoring, securing, and scaling Docker using tools such as Prometheus and Grafana. Later, you'll be able to deploy Docker containers to a variety of environments, including the cloud-native Amazon Elastic Kubernetes Service (Amazon EKS), before finally delving into Docker security concepts and best practices. By the end of the Docker book, you'll be able to not only work in a container-driven environment confidently but also use Docker for both new and existing projects. What you will learn**

**Get up to speed with creating containers and understand how they work**

**Package and deploy your containers to a variety of platforms**

**Work with containers in the cloud and on the Kubernetes platform**

**Deploy and then monitor the health and logs of running containers**

**Explore best practices for working with containers from a security perspective**

**Become familiar with scanning containers and using third-party security tools and libraries**

**Who this book is for** If you're a software engineer new to containerization or a DevOps engineer responsible for deploying

**Docker containers in the cloud and building DevOps pipelines for container-based projects, you'll find this book useful. This Docker containers book is also a handy reference guide for anyone working with a Docker-based DevOps ecosystem or interested in understanding the security implications and best practices for working in container-driven environments.**

**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 containIn DetailDocker 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 approachThis 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. 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**

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**Intermediate developers/DevOps practitioners who are looking to improve their build and release workflow by containerizing applications**  
**The Docker Book Containerization Is the New Virtualization James Turnbull**

**Docker: Up & Running**

**Essential Docker for ASP.NET Core MVC**

**Docker in Practice**

**Learn Docker – Fundamentals of Docker 19.x**

**5 Books in 1- Beginner's Guide+ Tips and Tricks+ Simple and Effective Strategies+ Best Practices and Advanced Strategies**

**Docker: Up and Running**

Explore the core functionality of containerizing your applications and making them production-ready Key Features Grasp basic to advanced Docker concepts with this comprehensive guide Get acquainted with Docker containers, Docker images, orchestrators, cloud integration, and networking Learn 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,

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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.

Docker is an open platform for developers and sysadmins to build, ship, and run distributed applications, whether on laptops, data center VMs, or the cloud. This book introduces Docker to an Absolute Beginner using really simple and easy

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to understand lectures. This course is designed for beginners in DevOps. Who this book is for: System

Administrators Cloud Infrastructure Engineers Developer

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,



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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.

Even small applications have dozens of components. Large applications may have thousands, which makes them challenging to install, maintain, and remove. Docker bundles

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all application components into a package called a container that keeps things tidy and helps manage any dependencies on other applications or infrastructure. 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 entirely new chapters. You'll start with a clear explanation of the Docker model and learn how to package applications in containers, including techniques for testing and distributing applications. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications.

## Learning Docker

Develop and run your application with Docker containers using DevOps tools for continuous delivery

Effectively containerize applications, integrate enterprise systems, and scale applications in your enterprise

## Docker for Data Science

## Using Docker

Build, test, ship, and run containers with Docker and Kubernetes, 2nd Edition

Run Docker on AWS and build real-world, secure, and scalable container platforms on cloud Key Features Configure Docker for the ECS environment Integrate Docker with different AWS tools Implement container networking and deployment at scale Book Description Over the last few years, Docker has been the gold standard for building and distributing container applications. Amazon Web Services

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(AWS) is a leader in public cloud computing, and was the first to offer a managed container platform in the form of the Elastic Container Service (ECS). Docker on Amazon Web Services starts with the basics of containers, Docker, and AWS, before teaching you how to install Docker on your local machine and establish access to your AWS account. You'll then dig deeper into the ECS, a native container management platform provided by AWS that simplifies management and operation of your Docker clusters and applications for no additional cost. Once you have got to grips with the basics, you'll solve key operational challenges, including secrets management and auto-scaling your infrastructure and applications. You'll explore alternative strategies for deploying and running your Docker applications on AWS, including Fargate and ECS Service Discovery, Elastic Beanstalk, Docker Swarm and Elastic Kubernetes Service (EKS). In addition to this, there will be a strong focus on adopting an Infrastructure as Code (IaC) approach using AWS CloudFormation. By the end of this book, you'll not only understand how to run Docker on AWS, but also be able to build real-world, secure, and scalable container platforms in the cloud. What you will learn Build, deploy, and operate Docker applications using AWS Solve key operational challenges, such as secrets management Exploit the powerful capabilities and tight integration of other

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AWS services Design and operate Docker applications running on ECS Deploy Docker applications quickly, consistently, and reliably using IaC Manage and operate Docker clusters and applications for no additional cost Who this book is for Docker on Amazon Web Services is for you if you want to build, deploy, and operate applications using the power of containers, Docker, and Amazon Web Services. Basic understanding of containers and Amazon Web Services or any other cloud provider will be helpful, although no previous experience of working with these is required.

'This book is written from the inside out. And that's what it did to me - turned me inside out.' Pete Postlethwaite OBE Usual Suspects, In The Name Of The Father, Liyarn Nyarn 'Wurrung (crow)! You my Wurrung-boy!' On a remote cattle station a small boy begins a profound journey into an Australia few whitefellas know. The Country inside our Country. And outside and all around at the same time. Aboriginal Australia. With Someone Else's Country Peter Docker tells a remarkable, gripping story - devastatingly real, painful and deeply moving, yet also joyful, intensely compassionate and absolutely hilarious. And ultimately, this is a journey into another place - a genuine meeting ground for Black and White Australia, a place built on deep personal engagement and understanding. Someone Else's Country is a journey we feel privileged to share.

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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.

Find out how to use Docker in your ASP.NET Core MVC applications, and how containers make it easier to develop, deploy and manage those applications in production environments. Packed with examples and practical demonstrations, this book will help you deploy even large-scale, cross-platform web applications from development into production. Best-selling author Adam Freeman takes you on a whirlwind tour of Docker, from creating a consistent development environment for your team to deploying a project and scaling it up in production. By the end of the book, you will have a solid understanding of what Docker does, how it does it and why it is useful when developing and deploying ASP.NET Core MVC applications.

**What You Will Learn**

- Gain a solid understanding of Docker: what it is, and why you should be using it for your ASP.NET Core MVC applications
- Use Docker to create a development platform for ASP.NET Core MVC so that applications behave consistently across development and production
- Use Docker to test, deploy and manage ASP.NET Core MVC containers
- Use Docker Swarms to scale up applications to cope with large workloads

**Who This Book Is For**

ASP.NET Core MVC developers who want to use

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Docker to containerize and manage their applications

Shipping Reliable Containers in Production

Learn how to use Docker containers effectively to speed up the development process

Docker in Action

Docker Demystified

Docker

Build, deploy, and manage your container applications at scale

Develop and build your Docker images and deploy your Docker containers securely. Key Features  
Learn Docker installation on different types of OS  
Get started with developing Docker images  
Use Docker with your Jenkins CI/CD system  
Book 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

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prepared when it comes to using Docker for your next project. What you will learn Set up your Docker workstation on various platforms Utilize a number of Docker commands with parameters Create Docker images using Dockerfiles Learn how to create and use Docker volumes Deploy multi-node Docker swarm infrastructure Create and use Docker local and remote networks Deploy multi-container applications that are HA and FT Use Jenkins to build and deploy Docker images Who 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. Summary Docker in Action teaches readers how to create, deploy, and manage applications hosted in Docker containers. 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. Create a tiny virtual environment, called a container, that holds just your application and its dependencies. The Docker engine uses the host operating system to build and account for these containers. They are easy to install, manage, and remove. Applications running inside containers share resources, making their footprints small. About the Book Docker in Action teaches readers how to create, deploy, and manage applications hosted in Docker containers. After starting with a clear explanation of the Docker model, you will learn how to package applications in containers, including techniques for testing and distributing applications. You will also learn how to run programs securely and how to manage shared resources. Using carefully designed examples, the book teaches you how to orchestrate containers and applications from installation to removal. Along the way, you'll discover techniques for using

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Docker on systems ranging from dev-and-test machines to full-scale cloud deployments. What's Inside Packaging containers for deployment Installing, managing, and removing containers Working with Docker images Distributing with DockerHub About the Reader Readers need only have a working knowledge of the Linux OS. No prior knowledge of Docker is assumed. About the Author Jeff Nickoloff, a software engineer, has presented Docker and its applications to hundreds of developers and administrators at Desert Code Camp, Amazon.com, and technology meetups. Table of Contents

**PART 1 KEEPING A TIDY COMPUTER** Welcome to Docker Running software in containers Software installation simplified Persistent storage and shared state with volumes Network exposure Limiting risk with isolation

**PART 2 PACKAGING SOFTWARE FOR DISTRIBUTION** Packaging software in images Build automation and advanced image considerations Public and private software distribution Running customized registries

**PART 3 MULTI-CONTAINER AND MULTI-HOST ENVIRONMENTS** Declarative environments with Docker Clusters with Machine and Swarm 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



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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.

Giving you the confidence you need to take on Docker in the real world, this guide is the ultimate book for learning Docker, brought to you by Docker Captain and leading educator in the container ecosystem. --

Learning Docker Networking

Pro Docker

Harness the full potential of your applications with Docker

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Kubernetes: Up and Running

Zero to Docker in a Single Book!

Docker Cookbook

April 2021 edition. Brought to you by best-selling author and video trainer, Nigel Poulton. Every page and every example has been checked and updated against the latest versions of Kubernetes (1.20+) and the latest trends in the cloud-native ecosystem.

Containers have revolutionized the way we package and run applications. However, like most things, containers come with a bunch of challenges. This is where Kubernetes comes into play. Kubernetes helps you deploy and manage containerized applications at scale. It also abstracts the underlying infrastructure so that you don't need to care if you're deploying applications to Amazon Web Services, Microsoft Azure, or your own on-premises datacenter. With Kubernetes, you can develop applications on your laptop, deploy to your favourite cloud platform, migrate to a different cloud platform, and even migrate to your on-premises datacenters. The Kubernetes Book starts from the beginning, explains all concepts in a clear and friendly way, and covers everything you need to become proficient at Kubernetes. You'll learn: - Kubernetes architecture - How to build Kubernetes - How to deploy, self-heal, scale, and perform rolling updates on applications - What the Kubernetes API is and how it works - How to secure Kubernetes - The meaning of terms such as; cloud-native, microservices, desired state, containerized, and more... Finally, Kubernetes and

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cloud technologies are developing fast! That's why this book will be updated every year, meaning it's always up-to-date with the latest versions of Kubernetes and the latest trends in the cloud-native ecosystem.

This book is designed to introduce you to using containers and Kubernetes for full-stack development. You'll learn how to develop a full-stack application using Node.js and MongoDB and how to and manage them using Docker, then Docker Compose, and finally Kubernetes.

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.

Learn Docker "infrastructure as code" technology to define a system for performing standard but non-trivial

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data tasks on medium- to large-scale data sets, using Jupyter as the master controller. It is not uncommon for a real-world data set to fail to be easily managed. The set may not fit well into access memory or may require prohibitively long processing. These are significant challenges to skilled software engineers and they can render the standard Jupyter system unusable. As a solution to this problem, Docker for Data Science proposes using Docker. You will learn how to use existing pre-compiled public images created by the major open-source technologies—Python, Jupyter, Postgres—as well as using the Dockerfile to extend these images to suit your specific purposes. The Docker-Compose technology is examined and you will learn how it can be used to build a linked system with Python churning data behind the scenes and Jupyter managing these background tasks. Best practices in using existing images are explored as well as developing your own images to deploy state-of-the-art machine learning and optimization algorithms. What You'll Learn Master interactive development using the Jupyter platform Run and build Docker containers from scratch and from publicly available open-source images Write infrastructure as code using the docker-compose tool and its docker-compose.yml file type Deploy a multi-service data science application across a cloud-based system Who This Book Is For Data scientists, machine learning engineers, artificial intelligence researchers, Kagglers, and software developers Essential Tools and Best Practices for Deploying Code

# Where To Download Docker 5 Books In 1 Beginners Guide Tips Tricks Simple Effective Strategies Best Practices Advanced Strategies to Production

Learn How to Develop and Deploy Applications Using Docker

From Containers to Kubernetes with Node.js

Docker Tutorial for Beginners Build Ship and Run

Docker on Amazon Web Services

Building Scalable and Extensible Data Infrastructure

Around the Jupyter Notebook Server

*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*

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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. Have you ever desired to have an open source containerization platform that doesn't just

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package applications into containers to be portable for systems running the Windows OS and Linux OS, but one that ensures they run in any environment or platform, and one that ensures that the container can have different applications installed on it to save time? If you've answered YES, keep reading... You Are about to Discover the Ins And Outs of Docker So You Can Start Using It with Confidence, Even If You've Never Used It Before! Docker, which is a hot topic in cloud computing that is difficult to avoid, is the technology that you need to get familiar with to cash in on many opportunities, including continuous development and deployment, better automation of configuration management and world-class IT service agility. Popularly used for developing, shipping and running applications, Docker is the phenomenon that has been enabling developers to isolate applications from their underlying infrastructure to achieve supersonic software delivery while enjoying the benefits of the characteristic lightweight feature of the containers, as well as their flexibility, spaciousness, tenability and versatility. But like most technologies, Docker can feel confusing and overly complex, especially for someone who's new to cloud computing, or a little overwhelming to a developer who's just making the acquaintance of it. As such, you may wonder: What is Docker (good for)? How does this platform really work? How would I benefit from it exactly? How is it any

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different from its predecessors? How do I get started with it? If that's you, then you came to the right place. You are looking at a simple, comprehensive and practical beginners' and intermediates' book that has all the answers to these and many more questions; one that will leave you with an all-inclusive understanding of this platform to know exactly why it has been causing ripples in the cloud computing community. Here's a tiny bit of what you'll discover: A detailed overview of the Docker platform and architecture How to install Docker on Linux, Windows and OSX How to pull Docker images and run containers properly How to work with Docker containers like a pro How to work with Docker images efficiently What you need to know about containers network and data management, and how to work with them ...And much more! A recent search on LinkedIn revealed almost 30,000 jobs across the country for developers with knowledge of Docker, a number that keeps increasing. If you're also looking to boost your business with better containerization and the amazing features of Docker, or just increase your skills and become a master Docker to become a DevOps guru, it's about time you made the one positive step, which is to learn and refine your skills. And even if this is your first encounter with Docker, by reading this book, you will feel confident getting started with Docker! Scroll up and click Buy Now With 1-Click or Buy Now to get started!



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Something weird is going on! Mr. Docker must be a mad scientist! He does nutty experiments and he has an evil, demented, cackling laugh. Plus he invented a car that runs onto potatoes. Mr. Docker is the weirdest science teacher ever! Is he trying to take over the world?

Start using Kubernetes in complex big data and enterprise applications, including Docker containers. Starting with installing Kubernetes on a single node, the book introduces Kubernetes with a simple Hello example and discusses using environment variables in Kubernetes. Next, Kubernetes Microservices with Docker discusses using Kubernetes with all major groups of technologies such as relational databases, NoSQL databases, and in the Apache Hadoop ecosystem. The book concludes with using multi container pods and installing Kubernetes on a multi node cluster. /div "a concise but clear introduction to containers, Docker and Kubernetes, using simple real-world examples to pass on the core concepts, via repetition, and is a very useful enabler." 10/10 Dave Hay MBCS CITP: review for BCS, The Chartered Institute for IT (<http://www.bcs.org/content/conWebDoc/58512>)  
What You Will Learn  
Install Kubernetes on a single node  
Set environment variables  
Create multi-container pods using Docker  
Use volumes  
Use Kubernetes with the Apache Hadoop ecosystem, NoSQL databases, and RDBMSs  
Install Kubernetes on a multi-node cluster

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*Who This Book Is For* Application developers including Apache Hadoop developers, database developers and NoSQL developers.

*Docker Deep Dive*

*Practical Docker with Python*

*Continuous Delivery in Java*

*Docker for the Absolute Beginner*

*Complete Guide To Docker For Beginners And Intermediates*

*Solutions and Examples for Building Distributed Applications*

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

*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*

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*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.*

*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*

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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

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*production. About the Author Ian Miell and Aidan Hobson Sayers are seasoned infrastructure architects working in the UK. Together, they used Docker to transform DevOps at one of the UK's largest gaming companies. Table of Contents*

*PART 1 - DOCKER FUNDAMENTALS* Discovering Docker  
*Understanding Docker: Inside the engine room*

*PART 2 - DOCKER AND DEVELOPMENT* Using Docker as a lightweight virtual machine  
*Building images*  
*Running containers*  
*Day-to-day Docker*  
*Configuration management: Getting your house in order*

*PART 3 - DOCKER AND DEVOPS* Continuous integration: Speeding up your development pipeline  
*Continuous delivery: A perfect fit for Docker principles*  
*Network simulation: Realistic environment testing without the pain*

*PART 4 - ORCHESTRATION FROM A SINGLE MACHINE TO THE CLOUD* A primer on container orchestration  
*The data center as an OS with Docker*  
*Docker platforms*

*PART 5 - DOCKER IN PRODUCTION* Docker and security  
*Plain sailing: Running Docker in production*  
*Docker in production: Dealing with challenges*

*In this fast-paced book on the Docker open standards platform for developing, packaging and running portable distributed applications, Deepak Vorhadiscusses how to build, ship and run applications on any platform such as a PC, the cloud, data center or a virtual machine. He describes how to install and create Docker images.*

and the advantages of Docker containers. The remainder of the book is devoted to discussing using Docker with important software solutions. He begins by discussing using Docker with a traditional RDBMS using Oracle and MySQL. Next he moves on to NoSQL with chapters on MongoDB, Cassandra, and Couchbase. Then he addresses the use of Docker in the Hadoop ecosystem with complete chapters on utilizing not only Hadoop, but Hive, HBase, Sqoop, Kafka, Solr and Spark. What You Will Learn How to install a Docker image How to create a Docker container How to run an Application in a Docker Container Use Docker with Apache Hadoop Ecosystem Use Docker with NoSQL Databases Use Docker with RDBMS Who This Book Is For Apache Hadoop Developers. Database developers. NoSQL Developers.

Learn Docker like a boss, and finally own your applications

*The Docker Book*

*Someone Else's Country*

*The Kubernetes Book*

*Mastering Docker, Fourth Edition*

*Kubernetes and Docker - An Enterprise Guide*

Learn how to run new and old Windows applications in Docker containers. About This Book Package traditional .NET Frameworks apps and new .NET Core apps as Docker images, and run them in containers for increased efficiency, portability, and

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security Design and implement distributed applications that run across connected containers, using enterprise-grade open source software from public Docker images Build a full Continuous Deployment pipeline for a .NET Framework application, and deploy it to a highly-available Docker swarm running in the cloud Who This Book Is For If you want to modernize an old monolithic application without rewriting it, smooth the deployment to production, or move to DevOps or the cloud, then Docker is the enabler for you. This book gives you a solid grounding in Docker so you can confidently approach all of these scenarios. What You Will Learn Comprehend key Docker concepts: images, containers, registries, and swarms Run Docker on Windows 10, Windows Server 2016, and in the cloud Deploy and monitor distributed solutions across multiple Docker containers Run containers with high availability and fail-over with Docker Swarm Master security in-depth with the Docker platform, making your apps more secure Build a Continuous Deployment pipeline by running Jenkins in Docker Debug applications running in Docker containers using Visual Studio Plan the adoption of Docker in your own organization In Detail Docker is a platform for running server applications in lightweight units called containers. You can run Docker on Windows Server 2016 and Windows 10, and run your existing apps in containers to get

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



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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

Quickly learn how to use Docker and containers in general to create packaged images for easy management, testing, and deployment of software.

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This practical guide lets you hit the ground running by demonstrating how Docker allows developers to package their application with all of its dependencies and to test and then ship the exact same bundle to production. You'll also learn how Docker enables operations engineers to help the development team quickly iterate on their software. Learn Docker's philosophy, design, and intent Use your own custom software to build Docker images Launch Docker images as running containers Explore advanced Docker concepts and topics Get valuable references to related tools in the Docker ecosystem

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

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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  
Developing and Deploying Software with Containers  
Native Docker Clustering with Swarm  
Docker on Windows  
Mr. Docker Is Off His Rocker!

***Legend has it that Google deploys over two billion application containers a week. How's that possible? Google revealed the secret through a project called Kubernetes, an open source cluster orchestrator (based on its internal Borg system) that radically simplifies the task of building, deploying, and maintaining scalable distributed systems in the cloud. This practical guide shows you how Kubernetes and container technology can help you achieve new levels of velocity, agility, reliability, and efficiency. Authors Kelsey Hightower, Brendan Burns, and Joe***

***Beda—who've worked on Kubernetes at Google and other organizations—explain how this system fits into the lifecycle of a distributed application. You will learn how to use tools and APIs to automate scalable distributed systems, whether it is for online services, machine-learning applications, or a cluster of Raspberry Pi computers. Explore the distributed system challenges that Kubernetes addresses Dive into containerized application development, using containers such as Docker Create and run containers on Kubernetes, using the docker image format and container runtime Explore specialized objects essential for running applications in production Reliably roll out new software versions without downtime or errors Get examples of how to develop and deploy real-world applications in Kubernetes Start from scratch and develop the essential skills needed to create, deploy, and manage cloud-native applications using Docker 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 to thrive in the modern cloud-first world. With this book, you'll gain the skills you need to work with Docker and its containers. The book begins with an introduction to containers and explains its functionality and application in the real world. You'll then get an overview of VMware, Kubernetes, and Docker and learn to install Docker on Windows, Mac, and Linux. Once you've understood the Ops and Dev perspective of Docker, you'll 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'll learn techniques for containerizing an app, deploying apps with Docker Compose, and managing cloud-native applications with Swarm. You'll also build Docker networks and Docker overlay networks and handle applications that write persistent data. Finally, you'll deploy apps with Docker stacks and secure your Docker environment. By the end of this book, you'll 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**  
**Build and test a Docker overlay network in the swarm mode**  
**Use Docker compose to deploy and manage multi-container applications**  
**Securely share sensitive data with containers and Swarm services**  
**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.**

**Build robust and secure applications using the building blocks of Docker**  
**Key Features** ● **Understand the fundamentals of Containers.**

● **Understand the working of the entire Docker ecosystem.** ● **Learn how to utilize Docker Networking capabilities to its fullest.**

● **Learn how to secure Docker Containers.** ● **Get familiar and work with Docker Enterprise Edition.**

**Description**  
**The book starts by introducing Containers and explains how they are different from virtual machines, and why**

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

**Summary** An open source container system, Docker makes deploying applications painless and flexible. Docker is powerful and simple to use, and it makes life easier for developers and administrators alike providing shorter build times, fewer production bugs, and effortless application roll-out. About the Book Docker in Practice is a hands-on guide that covers 101 specific techniques you can use to get the most out of Docker. Following a cookbook-style Problem/Solution/Discussion format, this practical handbook gives you instantly useful solutions for important problems like effortless server maintenance and configuration, deploying microservices, creating safe environments for experimentation, and much more. As you move through this book, you'll advance from basics to Docker best practices like using it with your Continuous Integration process, automating complex container creation with Chef, and orchestration with Kubernetes. What's Inside Speeding up your DevOps pipeline Cheaply replacing VMs Streamlining your cloud workflow Using the Docker Hub Navigating the Docker ecosystem About the Reader For anyone interested in real-world Docker. About the Authors Ian Miell and Aidan Hobson Sayers have contributed to



**Docker and have extensive experience building and maintaining commercial Docker-based infrastructures in large-scale environments. Table of Contents PART 1: DOCKER FUNDAMENTALS DISCOVERING DOCKER UNDERSTANDING DOCKER - INSIDE THE ENGINE ROOM PART 2: DOCKER AND DEVELOPMENT USING DOCKER AS A LIGHTWEIGHT VIRTUAL MACHINE DAY-TO-DAY DOCKER CONFIGURATION MANAGEMENT - GETTING YOUR HOUSE IN ORDER PART 3: DOCKER AND DEVOPS CONTINUOUS INTEGRATION: SPEEDING UP YOUR DEVELOPMENT PIPELINE CONTINUOUS DELIVERY: A PERFECT FIT FOR DOCKER PRINCIPLES NETWORK SIMULATION: REALISTIC ENVIRONMENT TESTING WITHOUT THE PAIN PART 4: DOCKER IN PRODUCTION CONTAINER ORCHESTRATION: MANAGING MULTIPLE DOCKER CONTAINERS DOCKER AND SECURITY PLAIN SAILING - DOCKER IN PRODUCTION AND OPERATIONAL CONSIDERATIONS DOCKER IN PRODUCTION: DEALING WITH CHALLENGES Kubernetes Microservices with Docker Docker for Developers Dive into the Future of Infrastructure Build, Release and Distribute your Python App with Docker**

## **Docker Quick Start Guide**

### ***Containerization Is the New Virtualization***

What sets Docker apart is the way that it parses out information which is done through the use of containers. A container allows developers to ship out applications that already include every it needs to run properly regardless of the environment it finds itself in. This cuts down on design time and potential headaches significantly while also creating a uniform experience for users of the application no matter what their personal situations may be. Docker adoption rates have jumped in the past year by more than 40 percent with more than 30 percent of all programmers currently using it to one extent or another. Don't get left in the dust, buy this 5 books Bundle today.

Docker lets you create, deploy, and manage your applications anywhere at anytime – flexibility is key so you can deploy stable, secure, and scalable app containers across a wide variety of platforms and delve into microservices architecture About This Book This up-to-date edition shows how to leverage Docker's features to deploy your existing applications Learn how to package your applications with Docker and build, ship, and scale your containers Explore real-

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world examples of securing and managing Docker containers Who This Book Is For This book is ideal for developers, operations managers, and IT professionals who would like to learn about Docker and use it to build and deploy container-based apps. No prior knowledge of Docker is expected. What You Will Learn Develop containerized applications using the Docker version 17.03 Build Docker images from containers and launch them Develop Docker images and containers leveraging Dockerfiles Use Docker volumes to share data Get to know how data is shared between containers Understand Docker Jenkins integration Gain the power of container orchestration Familiarize yourself with the frequently used commands such as docker exec, docker ps, docker top, and docker stats In Detail Docker is an open source containerization engine that offers a simple and faster way for developing and running software. Docker containers wrap software in a complete filesystem that contains everything it needs to run, enabling any application to be run anywhere – this flexibly and portably means that you can run apps in the cloud, on virtual machines, or on dedicated servers. This book will give you a tour of the new features of Docker and

help you get started with Docker by building and deploying a simple application. It will walk you through the commands required to manage Docker images and containers. You'll be shown how to download new images, run containers, list the containers running on the Docker host, and kill them. You'll learn how to leverage Docker's volumes feature to share data between the Docker host and its containers – this data management feature is also useful for persistent data. This book also covers how to orchestrate containers using Docker compose, debug containers, and secure containers using the AppArmor and SELinux security modules. Style and approach This step-by-step guide will walk you through the features and use of Docker, from Docker software installation to the impenetrable security of containers.

Continuous delivery adds enormous value to the business and the entire software delivery lifecycle, but adopting this practice means mastering new skills typically outside of a developer's comfort zone. In this practical book, Daniel Bryant and Abraham Marín-Pérez provide guidance to help experienced Java developers master skills such as architectural design, automated quality

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assurance, and application packaging and deployment on a variety of platforms. Not only will you learn how to create a comprehensive build pipeline for continually delivering effective software, but you'll also explore how Java application architecture and deployment platforms have affected the way we rapidly and safely deliver new software to production environments. Get advice for beginning or completing your migration to continuous delivery Design architecture to enable the continuous delivery of Java applications Build application artifacts including fat JARs, virtual machine images, and operating system container (Docker) images Use continuous integration tooling like Jenkins, PMD, and find-secbugs to automate code quality checks Create a comprehensive build pipeline and design software to separate the deploy and release processes Explore why functional and system quality attribute testing is vital from development to delivery Learn how to effectively build and test applications locally and observe your system while it runs in production