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# Docker Containers

Build and Deploy with Kubernetes,  
Fluentd, Prometheus, and Grafana

Christopher Negus



# Book And Docker Containers Content Update Program

**Christopher Negus**



## **Book And Docker Containers Content Update Program:**

Microservices with Docker on Microsoft Azure (includes Content Update Program) Boris Scholl, Trent Swanson, Daniel Fernandez, 2016-06-24 Book Content Update Program Beyond just describing the basics this book dives into best practices every aspiring microservices developer or architect should know Foreword by Corey Sanders Partner Director of Program Management Azure Microservice based applications enable unprecedented agility and ease of management and Docker containers are ideal for building them Microsoft Azure offers all the foundational technology and higher level services you need to develop and run any microservices application Microservices with Docker on Microsoft Azure brings together essential knowledge for creating these applications from the ground up or incrementally deconstructing monolithic applications over time The authors draw on their pioneering experience helping to develop Azure's microservices features and collaborating with Microsoft product teams who've relied on microservices architectures for years They illuminate the benefits and challenges of microservices development and share best practices all developers and architects should know You'll gain hands on expertise through a detailed sample application downloadable at [github.com/flakio/flakio](https://github.com/flakio/flakio) github.io Step by step you'll walk through working with services written in Node.js Go and ASP.NET 5 using diverse data stores mysql elasticsearch block storage The authors guide you through using Docker Hub as a service registry and Microsoft Azure Container service for cluster management and service orchestration Coverage includes Recognizing how microservices architectures are different and when they make sense Understanding Docker containers in the context of microservices architectures Building pulling and layering Docker images Working with Docker volumes containers images tags and logs Using Docker Swarm Docker Compose and Docker Networks Creating Docker hosts using the Azure portal Azure Resource Manager the command line docker machine or locally via Docker toolbox Establishing development and DevOps environments to support microservices applications Making the most of Docker's continuous delivery options Using Azure's cluster and container orchestration capabilities to operate and scale containerized microservices applications with maximum resilience Monitoring microservices applications with Azure Diagnostics Visual Studio Application Insights and Microsoft Operations Management Suite Developing microservices applications faster and more effectively with Azure Service Fabric An extensive sample application demonstrating the microservices concepts discussed throughout the book is available online In addition this book is part of InformIT's exciting new Content Update Program which provides content updates for major technology improvements As significant updates are made to Docker and Azure sections of this book will be updated or new sections will be added to match the updates to the technologies As updates become available they will be delivered to you via a free Web Edition of this book which can be accessed with any Internet connection To learn more visit [informit.com/cup](http://informit.com/cup) How to access the Web Edition Follow the instructions inside to learn how to register your book to access the FREE Web Edition *Docker Containers* Christopher Negus, 2015-11-26 The Practical Guide to Running Docker on Linux Systems or

Cloud Environments Whether on your laptop or a remote cloud Docker can transform how you create test deploy and manage your most critical applications In Docker Containers Christopher Negus helps you master Docker containerization from the ground up You ll start out running a few Docker container images in Ubuntu Fedora RHEL CoreOS or Project Atomic By the time you ve finished you ll be deploying enterprise quality multi container Kubernetes setups in modern Linux and cloud environments Writing for system administrators software developers and technology enthusiasts Negus touches on every aspect of working with Docker setting up containerized applications working with both individual and multiple containers running containers in cloud environments and developing containers Teaching through realistic examples of desktop applications system services and games Negus guides you through building and deploying your own Dockerized applications As you build your expertise you ll also learn indispensable Docker best practices for building and integrating containers managing Docker on a day to day basis and much more Understanding what Docker is and what you can do with it Installing Docker on standard Linux or specialized container operating systems such as Atomic Host and CoreOS Setting up a container runtime environment and private Docker Registry Creating running and investigating Docker images and containers Finding pulling saving loading and tagging container images Pulling and pushing containers between local systems and Docker Registries Integrating Docker containers with host networking and storage Building containers with the docker build command and Dockerfile files Minimizing space consumption and erasing unneeded containers Accessing special host privileges from within a container Orchestrating multiple containers into complex applications with Kubernetes Using super privileged containers in cloud environments Managing containers in the cloud with Cockpit Getting started with Docker container development Learning container build techniques from shared Dockerfiles This book is part of the Pearson Content Update Program As the technology changes sections of this book will be updated or new sections will be added The updates will be delivered to you via a free Web Edition of this book which can be accessed with any Internet connection

**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 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

### **Machine Learning Infrastructure and Best**

**Practices for Software Engineers** Mirosław Staron, 2024-01-31 Efficiently transform your initial designs into big systems by learning the foundations of infrastructure algorithms and ethical considerations for modern software products Key Features Learn how to scale up your machine learning software to a professional level Secure the quality of your machine learning pipeline at runtime Apply your knowledge to natural languages programming languages and images Book Description Although creating a machine learning pipeline or developing a working prototype of a software system from that pipeline is easy and straightforward nowadays the journey toward a professional software system is still extensive This book will help you get to grips with various best practices and recipes that will help software engineers transform prototype pipelines into complete software products The book begins by introducing the main concepts of professional software systems that leverage machine learning at their core As you progress you ll explore the differences between traditional non ML software and machine learning software The initial best practices will guide you in determining the type of software you need for your product Subsequently you will delve into algorithms covering their selection development and testing before exploring the intricacies of the infrastructure for machine learning systems by defining best practices for identifying the right data source and ensuring its quality Towards the end you ll address the most challenging aspect of large scale machine learning systems ethics By exploring and defining best practices for assessing ethical risks and strategies for mitigation you will conclude the book where it all began large scale machine learning software What you will learn Identify what the machine learning software best suits your needs Work with scalable machine learning pipelines Scale up pipelines from prototypes to fully fledged software Choose suitable data sources and processing methods for your product Differentiate raw data from complex processing noting their advantages Track and mitigate important ethical risks in machine learning software Work with testing and validation for machine learning systems Who this book is for If you re a machine learning

engineer this book will help you design more robust software and understand which scaling up challenges you need to address and why Software engineers will benefit from best practices that will make your products robust reliable and innovative Decision makers will also find lots of useful information in this book including guidance on what to look for in a well designed machine learning software product

**Big-Data Analytics for Cloud, IoT and Cognitive Computing** Kai Hwang,Min Chen,2017-03-17 The definitive guide to successfully integrating social mobile Big Data analytics cloud and IoT principles and technologies The main goal of this book is to spur the development of effective big data computing operations on smart clouds that are fully supported by IoT sensing machine learning and analytics systems To that end the authors draw upon their original research and proven track record in the field to describe a practical approach integrating big data theories cloud design principles Internet of Things IoT sensing machine learning data analytics and Hadoop and Spark programming Part 1 focuses on data science the roles of clouds and IoT devices and frameworks for big data computing Big data analytics and cognitive machine learning as well as cloud architecture IoT and cognitive systems are explored and mobile cloud IoT interaction frameworks are illustrated with concrete system design examples Part 2 is devoted to the principles of and algorithms for machine learning data analytics and deep learning in big data applications Part 3 concentrates on cloud programming software libraries from MapReduce to Hadoop Spark and TensorFlow and describes business educational healthcare and social media applications for those tools The first book describing a practical approach to integrating social mobile analytics cloud and IoT SMACT principles and technologies Covers theory and computing techniques and technologies making it suitable for use in both computer science and electrical engineering programs Offers an extremely well informed vision of future intelligent and cognitive computing environments integrating SMACT technologies Fully illustrated throughout with examples figures and approximately 150 problems to support and reinforce learning Features a companion website with an instructor manual and PowerPoint slides [www.wiley.com/go/hwangIOT](http://www.wiley.com/go/hwangIOT) Big Data Analytics for Cloud IoT and Cognitive Computing satisfies the demand among university faculty and students for cutting edge information on emerging intelligent and cognitive computing systems and technologies Professionals working in data science cloud computing and IoT applications will also find this book to be an extremely useful working resource

*Mastering Docker Containers: From Development to Deployment* Peter Jones,2025-01-11 Unlock the full potential of Elasticsearch with our definitive guide Advanced Mastery of Elasticsearch Innovative Search Solutions Explored This comprehensive book is crafted for professionals aspiring to enhance their skills in developing robust scalable search and analytics solutions Whether you re a software developer data analyst system administrator or IT professional this resource covers everything from setup configuration and cluster management to advanced querying data indexing and security Delve deep into the core concepts of Elasticsearch architecture uncover the intricacies of Query DSL and master text analysis with analyzers tokenizers and filters Discover best practices for managing large datasets optimizing performance and ensuring

your deployments are secure and efficient Each chapter is meticulously organized to build on your knowledge offering detailed insights and practical examples to address real world challenges Advanced Mastery of Elasticsearch Innovative Search Solutions Explored is more than a book it s an indispensable resource guiding you through the creation of cutting edge search and analytics implementations Elevate your Elasticsearch expertise and revolutionize how you handle data in your organization

**Geographic Data Science with Python** Sergio Rey,Dani Arribas-Bel,Levi John Wolf,2023-06-14 This book provides the tools the methods and the theory to meet the challenges of contemporary data science applied to geographic problems and data In the new world of pervasive large frequent and rapid data there are new opportunities to understand and analyze the role of geography in everyday life Geographic Data Science with Python introduces a new way of thinking about analysis by using geographical and computational reasoning it shows the reader how to unlock new insights hidden within data Key Features Showcases the excellent data science environment in Python Provides examples for readers to replicate adapt extend and improve Covers the crucial knowledge needed by geographic data scientists It presents concepts in a far more geographic way than competing textbooks covering spatial data mapping and spatial statistics whilst covering concepts such as clusters and outliers as geographic concepts Intended for data scientists GIScientists and geographers the material provided in this book is of interest due to the manner in which it presents geospatial data methods tools and practices in this new field

**Deep Learning on Embedded Systems** Tariq M. Arif,2025-04-29 Comprehensive accessible introduction to deep learning for engineering tasks through Python programming low cost hardware and freely available software Deep Learning On Embedded Systems is a comprehensive guide to the practical implementation of deep learning for engineering tasks through computers and embedded hardware such as Raspberry Pi and Nvidia Jetson Nano After an introduction to the field the book provides fundamental knowledge on deep learning convolutional and recurrent neural networks computer vision and basics of Linux terminal and docker engines This book shows detailed setup steps of Jetson Nano and Raspberry Pi for utilizing essential frameworks such as PyTorch and OpenCV GPU configuration and dependency installation procedure for using PyTorch is also discussed allowing newcomers to seamlessly navigate the learning curve A key challenge of utilizing deep learning on embedded systems is managing limited GPU and memory resources This book outlines a strategy of training complex models on a desktop computer and transferring them to embedded systems for inference Also students and researchers often face difficulties with the varying probabilistic theories and notations found in data science literature To simplify this the book mainly focuses on the practical implementation part of deep learning using Python programming low cost hardware and freely available software such as Anaconda and Visual Studio Code To aid in reader learning questions and answers are included at the end of most chapters Written by a highly qualified author Deep Learning On Embedded Systems includes discussion on Fundamentals of deep learning including neurons and layers activation functions network architectures hyperparameter tuning and convolutional and recurrent neural

networks CNNs RNNs PyTorch OpenCV and other essential framework setups for deep transfer learning along with Linux terminal operations docker engine docker images and virtual environments in embedded devices Training models for image classification and object detection with classification then converting trained PyTorch models to ONNX format for efficient deployment on Jetson Nano and Raspberry Pi Deep Learning On Embedded Systems serves as an excellent introduction to the field for undergraduate engineering students seeking to learn deep learning implementations for their senior capstone or class projects and graduate researchers and educators who wish to implement deep learning in their research Docker Containers Chris Negus,William Henry,2016 Essential TypeScript Adam Freeman,2019-08-14 Work with Typescript and get the most from this versatile open source language Author Adam Freeman begins this book by describing Typescript and the benefits it offers and goes on to show you how to use TypeScript in realistic scenarios going in depth to give you the knowledge you need Starting from the nuts and bolts and building up to the most advanced and sophisticated features you will learn how TypeScript builds on the JavaScript type system to create a safer and more productive development experience and understand how TypeScript can be used to create applications using popular frameworks including Node js Angular React and Vue js Each topic is covered clearly and concisely and is packed with the details you need to learn to be truly effective The most important features are given a no nonsense in depth treatment and chapters include common problems and details of how to avoid them What You Will Learn Gain a solid understanding of the TypeScript language and tools Use TypeScript for client and server side development Extend and customize TypeScript Debug and unit test your TypeScript code Who This Book Is For Developers who want to start using TypeScript for example to create rich web applications using Angular React or Vue js Adam Freeman is an experienced IT professional who has held senior positions in a range of companies most recently serving as chief technology officer and chief operating officer of a global bank Now retired he spends his time writing and long distance running *Data Science for Neuroimaging* Ariel Rokem,Tal Yarkoni,2023-12-12 Data science methods and tools including programming data management visualization and machine learning and their application to neuroimaging research As neuroimaging turns toward data intensive discovery researchers in the field must learn to access manage and analyze datasets at unprecedented scales Concerns about reproducibility and increased rigor in reporting of scientific results also demand higher standards of computational practice This book offers neuroimaging researchers an introduction to data science presenting methods tools and approaches that facilitate automated reproducible and scalable analysis and understanding of data Through guided hands on explorations of openly available neuroimaging datasets the book explains such elements of data science as programming data management visualization and machine learning and describes their application to neuroimaging Readers will come away with broadly relevant data science skills that they can easily translate to their own questions Fills the need for an authoritative resource on data science for neuroimaging researchers Strong emphasis on programming Provides extensive code examples written in the Python



programming language Draws on openly available neuroimaging datasets for examples Written entirely in the Jupyter notebook format so the code examples can be executed modified and re executed as part of the learning process

**Children's Books in Print** ,1993      **Using Docker** Adrian Mouat,2015-12-09 Docker containers offer simpler faster and more robust methods for developing distributing and running software than previously available With this hands on guide you ll learn why containers are so important what you ll gain by adopting Docker and how to make it part of your development process Ideal for developers operations engineers and system administrators especially those keen to embrace a DevOps approach Using Docker will take you from Docker and container basics to running dozens of containers on a multi host system with networking and scheduling The core of the book walks you through the steps needed to develop test and deploy a web application with Docker Get started with Docker by building and deploying a simple web application Use Continuous Deployment techniques to push your application to production multiple times a day Learn various options and techniques for logging and monitoring multiple containers Examine networking and service discovery how do containers find each other and how do you connect them Orchestrate and cluster containers to address load balancing scaling failover and scheduling Secure your system by following the principles of defense in depth and least privilege      *Docker 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      **DevOps and Containers Security** Jose Manuel Ortega Candel,2020-03-09 Secure your applications and development environments with Docker and Kubernetes DESCRIPTION Through this book we will introduce the DevOps tools ecosystem and the main containers orchestration tools through an introduction to some platforms such as

Kubernetes Docker Swarm and OpenShift Among other topics both good practices will be addressed when constructing the Docker images as well as best security practices to be applied at the level of the host in which those containers are executed from Docker's own daemon to the rest of the components that make up its technological stack We will review the topics such as static analysis of vulnerabilities on Docker images the signing of images with Docker Content Trust and their subsequent publication in a Docker Registry will be addressed Also we will review the security state in Kubernetes In the last section we will review container management and administration open source tools for IT organizations that need to manage and monitor container based applications reviewing topics such as monitoring administration and networking in Docker

**KEY FEATURES** Introducing Container platforms Docker Kubernetes Swarm OpenShift Discover how to manage high availability with Docker Swarm and Kubernetes Learn how Docker can manage the security in images and containers Discover how Docker can be integrated into development workflows in applications Discover vulnerabilities in the Docker containers and images with practical examples to secure your container based applications Discover tools for monitoring and administration Docker and Kubernetes applications

**WHAT WILL YOU LEARN** Learn fundamental DevOps skills and tools starting with the basic components and concepts of Docker Learn about Docker as a platform for the deployment of containers and Docker images taking into account the security of applications Learn about tools that allow us to audit the security of the machine where we execute Docker images finding out how to secure your Docker host Learn how to secure your Docker environment and discover vulnerabilities and threats in Docker images Learn about creating and deploying containers in a security way with Docker and Kubernetes Learn about monitoring and administration in Docker with tools such as cadvisor sysdig portainer and Rancher

**WHO THIS BOOK IS FOR** This book covers different techniques to help developers improve DevOps and container security skills and can be useful for people who are involved in software development and want to learn how Docker works from a security point of view It is recommended that readers have the knowledge about UNIX commands and they work with commands terminal

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**Docker Cookbook** Ken Cochrane, Jeeva S.

Chelladhurai, Neependra K Khare, 2018-08-31 Leverage Docker to deploying software at scale

**Key Features** Leverage practical examples to manage containers efficiently Integrate with orchestration tools such as Kubernetes for controlled deployments Learn to implement best practices on improving efficiency and security of containers

**Book Description** Docker is an open source platform for building shipping managing and securing containers Docker has become the tool of choice for people willing to work with containers Since the market is moving toward containerization Docker will definitely have a big role to play in the future tech market This book starts with setting up Docker in different environment and helps you learn

how to work with Docker images Then you will take a deep dive into network and data management for containers The book explores the RESTful APIs provided by Docker to perform different actions such as image container operations The book then explores logs and troubleshooting Docker to solve issues and bottlenecks You will gain an understanding of Docker use cases orchestration security ecosystems and hosting platforms to make your applications easy to deploy build and collaborate on The book covers the new features of Docker 18 xx or later such as working with AWS and Azure Docker Engine Docker Swarm Docker Compose and so on By the end of this book you will have gained hands on experience of finding quick solutions to different problems encountered while working with Docker What you will learn Install Docker on various platforms Work with Docker images and containers Container networking and data sharing Docker APIs and language bindings Various PaaS solutions for Docker Implement container orchestration using Docker Swarm and Kubernetes Container security Docker on various clouds Who this book is for Book is targeted towards developers system administrators and DevOps engineers who want to use Docker in his her development QA or production environments It is expected that the reader has basic Linux Unix skills such as installing packages editing files managing services and so on Any experience in virtualization technologies such as KVM XEN and VMware will be an added advantage [The Docker Book](#) James Turnbull,2014 A new book designed for SysAdmins Operations staff Developers and DevOps who are interested in deploying the open source container service Docker In this book we ll will 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 life cycle 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 and orchestrate application services and platforms Finally we ll show you how to use Docker s API and how to extend Docker yourself **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** Sean P. Kane,Karl Matthias,2023 Docker and Linux containers have fundamentally changed the way that organizations develop deliver and run software at scale But understanding why these tools are important and how they can be successfully integrated into your organization s ecosystem can be challenging This fully updated guide provides developers operators architects and technical managers with a thorough understanding of the Docker tool set and how containers can improve almost every aspect of modern software delivery and management This edition includes significant updates to the examples and explanations that reflect the

substantial changes that have occurred since Docker was first released almost a decade ago Sean Kane and Karl Matthias have updated the text to reflect best practices and to provide additional coverage of new features like BuildKit multi architecture image support rootless containers and much more Learn how Docker and Linux containers integrate with cloud services and Kubernetes Experience building OCI images plus deploying and managing Linux containers with powerful command line tools Understand how OCI images simplify dependency management and deployment workflow for your applications Learn practical techniques for deploying and testing Linux containers in production Deploy production containers at scale wherever you need them Explore advanced Docker topics including deployment tools networking orchestration security and configuration

*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

## **Book And Docker Containers Content Update Program** Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Book And Docker Containers Content Update Program**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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## Book And Docker Containers Content Update Program Introduction

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### **FAQs About Book And Docker Containers Content Update Program Books**

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