From 101 To Production With Docker On Windows 2nd Edition

Are you ready to take your Docker skills to the next level? Look no further! Welcome to the second edition of "From 101 To Production With Docker On Windows." In this article, we will dive deep into the world of Docker, exploring everything you need to know in order to successfully deploy your applications on Windows using Docker.

The Power of Docker on Windows

Docker has revolutionized the way developers build, package, and deploy their applications. With Docker, you can easily create self-contained and portable containers that encapsulate your application and all its dependencies. This means you don't have to worry about compatibility issues when moving your applications between different environments, such as development, testing, and production.

Docker on Windows brings all the benefits of Docker to the Windows platform, allowing developers to build and run containerized applications seamlessly. Whether you're a beginner just starting with Docker or an experienced user, this article will guide you through the process of taking your Docker skills to the next level and deploying your applications on a Windows environment.

Docker on Windows: From 101 to production with Docker on Windows, 2nd Edition
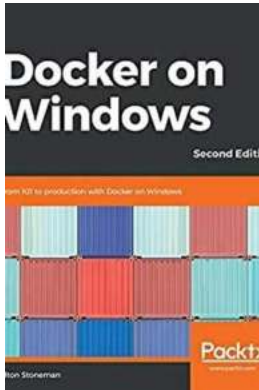
by Elton Stoneman (2nd Edition, Kindle Edition)

★★★★☆ 4.5 out of 5

Language	: English
File size	: 15155 KB
Text-to-Speech	: Enabled

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Getting Started with Docker on Windows

Before we dive into the intricacies of Docker on Windows, let's start with the basics. If you're new to Docker, don't worry! We'll cover everything you need to know to get up and running in no time. From installing Docker Desktop on Windows to working with Docker images and containers, we'll cover it all.

We'll also explore some common Docker commands and best practices to help you navigate through the Docker ecosystem with ease. Building Docker images, running containers, managing volumes, and networking – we've got you covered with step-by-step instructions and real-world examples.

Advanced Docker Techniques

Once you have mastered the basics, it's time to dive into advanced Docker techniques. In this section, we'll explore topics such as Docker Compose, Docker Swarm, and dockerizing multi-service applications. You'll learn how to define complex deployment setups, orchestrate multiple containers, and ensure fault-tolerance and scalability in your applications.

By the end of this section, you'll have the knowledge and skills to design and deploy complex applications on a Windows environment using Docker. These advanced techniques will help you take full advantage of Docker's power and flexibility in real-world scenarios.
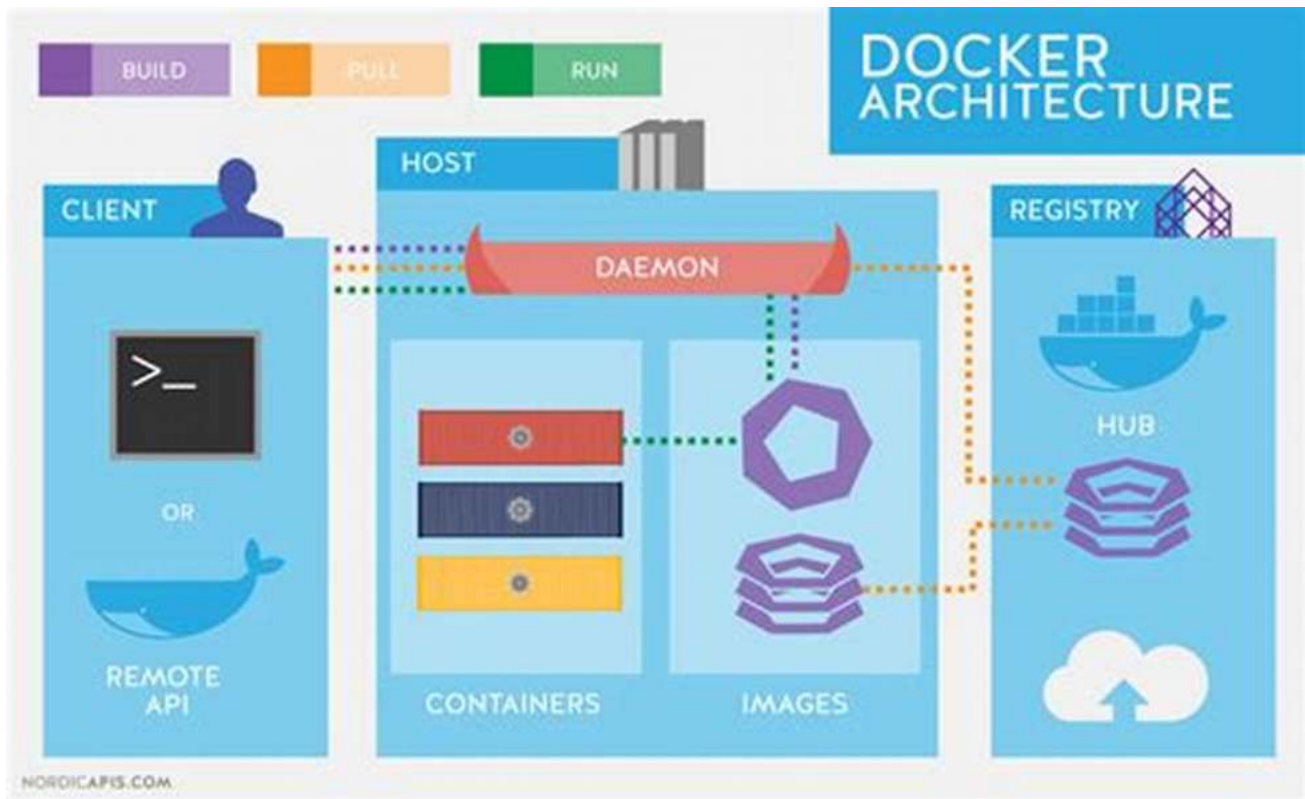
From Development to Production

Finally, we'll shift gears and focus on the process of taking your Dockerized applications from development to production. We'll cover topics such as CI/CD pipelines, container registries, and deploying Docker containers in production environments.
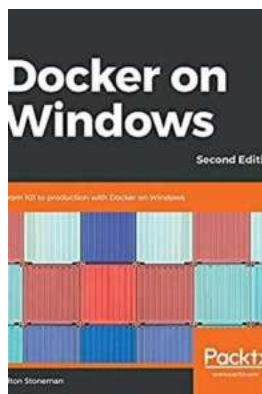
You'll learn how to automate the build, test, and deployment processes using popular tools like Jenkins, GitHub Actions, and Azure Pipelines. We'll also explore different deployment strategies, such as blue-green deployments and canary releases, to ensure smooth and reliable application updates.

Congratulations on completing "From 101 To Production With Docker On Windows 2nd Edition"! We hope this article has equipped you with the knowledge and confidence to tackle any Docker-related challenges you may encounter on your Windows journey.

Docker on Windows opens up a world of possibilities for developers, allowing you to easily package, deploy, and scale your applications. By following the techniques and best practices covered in this article, you'll be well on your way to becoming a Docker guru on the Windows platform.

So, what are you waiting for? Dive into Docker on Windows and unleash the full potential of containerization for your applications!

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Enhanced typesetting	: Enabled
Print length	: 428 pages
Screen Reader	: Supported

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Learn how to run new and old applications in Docker containers on Windows - modernizing the architecture, improving security and maximizing efficiency.

Key Features

- Run .NET Framework and .NET Core apps in Docker containers for efficiency, security and portability

- Design distributed containerized apps, using enterprise-grade open source software from Docker Hub

- Build a CI/CD pipeline with Docker, going from source to a production Docker Swarm in the cloud

Book Description

Docker on Windows, Second Edition teaches you all you need to know about Docker on Windows, from the 101 to running highly-available workloads in production. You'll be guided through a Docker journey, starting with the key concepts and simple examples of .NET Framework and .NET Core apps in Docker containers on Windows. Then you'll learn how to use Docker to modernize the architecture and development of traditional ASP.NET and SQL Server apps.

The examples show you how to break up legacy monolithic applications into distributed apps and deploy them to a clustered environment in the cloud, using the exact same artifacts you use to run them locally. You'll see how to build a CI/CD pipeline which uses Docker to compile, package, test and deploy your applications. To help you move confidently to production, you'll learn about Docker security, and the management and support options.

The book finishes with guidance on getting started with Docker in your own projects. You'll walk through some real-world case studies for Docker

implementations, from small-scale on-premises apps to very large-scale apps running on Azure.

What you will learn

- Understand key Docker concepts: images, containers, registries and swarms

- Run Docker on Windows 10, Windows Server 2019, and in the cloud

- Deploy and monitor distributed solutions across multiple Docker containers

- Run containers with high availability and failover with Docker Swarm

- Master security in-depth with the Docker platform, making your apps more secure

- Build a Continuous Deployment pipeline, running Jenkins and Git in Docker

- Debug applications running in Docker containers using Visual Studio

- Plan the adoption of Docker in your organization

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.
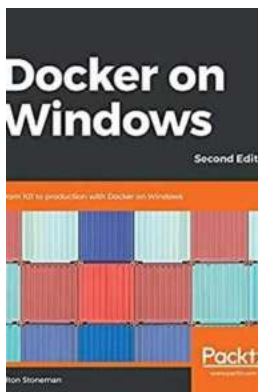
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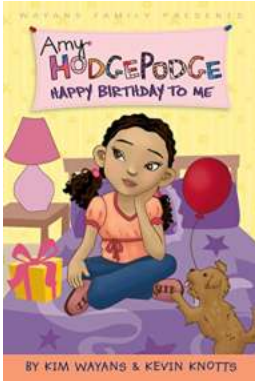
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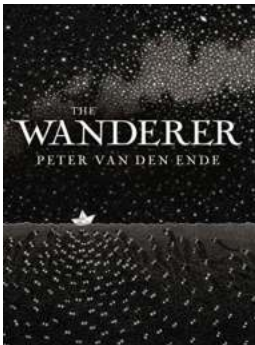
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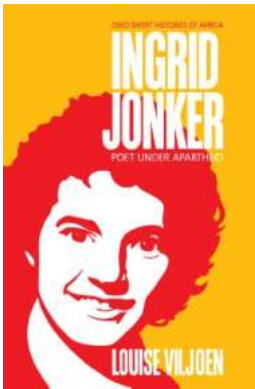
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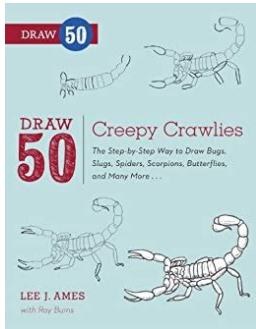
"Poetry is not a luxury. It's a vital necessity of our existence. It forms the quality of the light within which we predicate our hopes and dreams toward survival and change,...

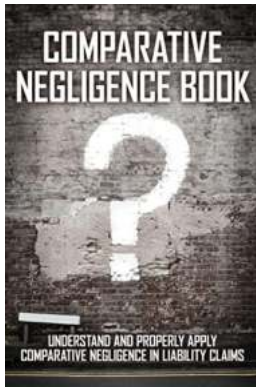## The Castle Of Tangled Magic: Unveiling the Enchanting Secrets within its Walls

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