Docker On Windows From 101 To Production With Docker On Windows

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Docker on Windows from 101 to Modernizing .NET Apps Windows Containers and Docker: 101 *Windows Containers and Docker: 101* **Docker Tutorial for Beginners 2 - Install Docker on Windows 10** ~~Docker For Windows | Setting Up Docker On Windows | Docker Tutorial For Beginners | Edureka~~ *Docker On Windows 101 - Ashley Poole*

Setting Up Docker on Windows run Linux on Windows Docker containers!! Docker for Windows Container Development **Getting Started with Docker for Windows 10!** *you need to learn Docker RIGHT NOW!! // Docker Containers 101* What is Docker? Why it's popular and how to use it to save money (tutorial) GOODBYE Microsoft certifications!! (killing off the MCSA, MCSE, MCSD) **you need to learn Ansible RIGHT NOW!! (Linux Automation)** ~~the UniFi Dream Machine Pro....the nerdiest home router~~ *Containers and VMs - A Practical Comparison MicroNugget: What is Docker and How Does it Work? | CBT Nuggets* ~~Introduction to Microservices, Docker, and Kubernetes~~ *Developing on Windows with WSL2 (Subsystem for Linux), VS Code, Docker, and the Terminal*

EVERYONE needs to learn LINUX - ft. Raspberry Pi 4

This Is How Docker Works, The Fun Way!

Docker Tutorial for Beginners - A Full DevOps Course on How to Run Applications in Containers

Installing Docker and deploying a couple containers on Windows 10 *How to Install Docker in Window 10 Containers? So What? Docker 101 Explained - Computer Stuff They Didn't Teach You #8* ~~Move legacy apps to Windows Containers - Regan Murphy~~ ~~[unlimited] ebook online for download online Docker on Windows From 101 to production with Docker o~~

How to run Docker in Docker on Windows (for Linux containers) ~~Getting Started with Docker for Windows and .NET Apps~~ *Docker On Windows From 101*

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.

Docker on Windows: From 101 to production with Docker on ...

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.

Docker on Windows: From 101 to production with Docker on ...

Docker Desktop is a native application that delivers all of the Docker tools to your Mac or Windows Computer. Open Docker Desktop. (Download here if you don't have it). Type the following command in your terminal: docker run -dp 80:80 docker/getting-started. Open your browser to http://localhost.

#LearnDocker ¦ Docker

Docker on Windows: From 101 to production with Docker on Windows, 2nd Edition eBook: Elton Stoneman: Amazon.co.uk: Kindle Store

Docker on Windows: From 101 to production with Docker on ...

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...

Docker on Windows: From 101 to production with Docker on ...

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Docker on Windows: From 101 to production with Docker on ...

If you are looking for information about installing Docker Desktop on Windows 10 Home, see Install Docker Desktop on Windows Home. Download from Docker Hub By downloading Docker Desktop, you agree to the terms of the Docker Software End User License Agreement and the Docker Data Processing Agreement .

Install Docker Desktop on Windows ¦ Docker Documentation

A Docker image is a snapshot of an application and serves as the basis of a container. Once an image is instantiated by the Docker engine via the docker run command the engine spins up a container. The engine instantiates a new process based on the image, and adds a read/write layer to the top of the image to create a container

Docker 101: Getting to Know Docker - Docker Blog

From the Docker Desktop menu, you can toggle which daemon (Linux or Windows) the Docker CLI talks to. Select Switch to Windows containers to use Windows containers, or select Switch to Linux containers to use Linux containers (the default). For more information on Windows containers, refer to the following documentation:

Docker Desktop for Windows user manual ¦ Docker Documentation
Install Docker on Windows 10 Docker works cross-platform and such supports execution on a Windows host, including Windows 10 (Pro or Enterprise). This makes Windows 10 a perfect development...

Docker on Windows 10 Beginner's Guide - businessnewsdaily.com
Download the installer from here: Docker for Windows Double-click Docker Desktop for Windows Installer.exe to run the installer. Follow the install wizard to accept the license, authorize the...

Docker 101. A beginner ' s guide to containerization ¦ by ...
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 on Windows: From 101 to production with Docker on ...
Open the Docker Desktop application from the shortcut on the desktop or search for it in the apps. When the whale icon on the status bar is steady, docker is up-and-running. Follow the on boarding...

Docker 101: Installation on Windows 10 ¦ by Raziuddin ¦ Medium
Docker is a tool designed to make it easier to create, deploy, and run applications by using containers. Containers allow a developer to package up an application with all of the parts it needs, such as libraries and other dependencies, and ship it all out as one package. — OpenSource.com, What is Docker?

Docker 101: Fundamentals & The Dockerfile ¦ by Paige ...
If you ' ve ever tried to install Docker for Windows, you ' ve probably came to realize that the installer won ' t run on Windows 10 Home.Only Windows Pro, Enterprise or Education support Docker ...

How to Install Docker on Windows 10 Home - SitePoint
Docker on Windows: From 101 to Production is a fantastic read for anyone looking to run Docker in a Windows or .NET stack environment. I appreciate how much attention was given towards the benefits of .NET core and the great information for building distributed applications.

Book Review: Docker on Windows: From 101 to Production – 1 ...
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.

Docker on Windows - Second Edition
Docker 101. Docker Containers vs. Virtual Machines; 100 Best Docker Tutorials; Docker Architecture; Docker Registries 101; Docker Images 101; Docker Security - Risks, Benefits and 8 Best Practices; Docker Tools; Docker Alternatives - Rkt, LXD, OpenVZ, Linux VServer, Windows Containers; Docker Swarm 101; Docker vs. Kubernetes - 8 Industry ...

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 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 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.

Containers are a new way to run software. They ' re efficient, secure and portable. You can run apps in Docker with no code changes. Docker helps to meet the biggest challenges in IT: modernizing legacy apps, building new apps, moving to the cloud, adopting DevOps and staying innovative. This book teaches all you need to know about Docker on Windows.

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 ...

Summary Go from zero to production readiness with Docker in 22 bite-sized lessons! Learn Docker in a Month of Lunches is an accessible task-focused guide to Docker on Linux, Windows, or Mac systems. In it, you ' ll learn practical Docker skills to help you tackle the challenges of modern IT, from cloud migration and microservices to handling legacy systems. There ' s no excessive theory or niche-use cases—just a quick-and-easy guide to the essentials of Docker you ' ll use every day. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology The idea behind Docker is simple: package applications in lightweight virtual containers that can be easily installed. The results of this simple idea are huge! Docker makes it possible to manage applications without creating custom infrastructures. Free, open source, and battle-tested, Docker has quickly become must-know technology for developers and administrators. About the book Learn Docker in a Month of Lunches introduces Docker concepts through a series of brief hands-on lessons. Following a learning path perfected by author Elton Stoneman, you ' ll run containers by chapter 2 and package applications by chapter 3. Each lesson teaches a practical skill you can practice on Windows, macOS, and Linux systems. By the end of the month you ' ll know how to containerize and run any kind of application with Docker. What's inside Package applications to run in containers Put containers into production Build optimized Docker images Run containerized apps at scale About the reader For IT professionals. No previous Docker experience required. About the author Elton Stoneman is a consultant, a former architect at Docker, a Microsoft MVP, and a Pluralsight author. Table of Contents PART 1 - UNDERSTANDING DOCKER CONTAINERS AND IMAGES 1. Before you begin 2. Understanding Docker and running Hello World 3. Building your own Docker images 4. Packaging applications from source code into Docker Images 5. Sharing images with Docker Hub and other registries 6. Using Docker volumes for persistent storage PART 2 - RUNNING DISTRIBUTED APPLICATIONS IN CONTAINERS 7. Running multi-container apps with Docker Compose 8. Supporting reliability with health checks and dependency checks 9. Adding observability with containerized monitoring 10. Running multiple environments with Docker Compose 11. Building and testing applications with Docker and Docker Compose PART 3 - RUNNING AT SCALE WITH A CONTAINER ORCHESTRATOR 12. Understanding orchestration: Docker Swarm and Kubernetes 13. Deploying distributed applications as stacks in Docker Swarm 14. Automating releases with upgrades and rollbacks 15. Configuring Docker for secure remote access and CI/CD 16. Building Docker images that run anywhere: Linux, Windows, Intel, and Arm PART 4 - GETTING YOUR CONTAINERS READY FOR PRODUCTION 17. Optimizing your Docker images for size, speed, and security 18. Application configuration management in containers 19. Writing and managing application logs with Docker 20. Controlling HTTP traffic to containers with a reverse proxy 21. Asynchronous communication with a message queue 22. Never the end

To facilitate scalability and resilience, many organizations now run applications in cloud native environments using containers and orchestration. But how do you know if the deployment is secure? This practical book examines key underlying technologies to help developers, operators, and security professionals assess security risks and determine appropriate solutions. Author Liz Rice, Chief Open Source Officer at Isovalent, looks at how the building blocks commonly used in container-based systems are constructed in Linux. You'll understand what's happening when you deploy containers and learn how to assess potential security risks that could affect your deployments. If you run container applications with kubectl or docker and use Linux command-line tools such as ps and grep, you're ready to get started. Explore attack vectors that affect container deployments Dive into the Linux constructs that underpin containers Examine measures for hardening containers Understand how misconfigurations can compromise container isolation Learn best practices for building container images Identify container images that have known software vulnerabilities Leverage secure connections between containers Use security tooling to prevent attacks on your deployment

Learn Kubernetes in a Month of Lunches is your guide to getting up and running with Kubernetes. Summary In Learn Kubernetes in a Month of Lunches you'll go from "what ' s a Pod?" to automatically scaling clusters of containers and components in just 22 hands-on lessons, each short enough to fit into a lunch break. Every lesson is task-focused and covers an essential skill on the road to Kubernetes mastery. You'll learn how to smooth container management with Kubernetes, including securing your clusters, and upgrades and rollbacks with zero downtime. No development stack, platform, or

background is assumed. Author Elton Stoneman describes all patterns generically, so you can easily apply them to your applications and port them to other projects! Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Create apps that perform identically on your laptop, data center, and cloud! Kubernetes provides a consistent method for deploying applications on any platform, making it easy to grow. By efficiently orchestrating Docker containers, Kubernetes simplifies tasks like rolling upgrades, scaling, and self-healing. About the book Learn Kubernetes in a Month of Lunches is your guide to getting up and running with Kubernetes. You'll progress from Kubernetes basics to essential skills, learning to model, deploy, and manage applications in production. Exercises demonstrate how Kubernetes works with multiple languages and frameworks. You'll also practice with new apps, legacy code, and serverless functions. What's inside Deploying applications on Kubernetes clusters Understanding the Kubernetes app lifecycle, from packaging to rollbacks Self-healing and scalable apps Using Kubernetes as a platform for new technologies About the reader For readers familiar with Docker and containerization. About the author Elton Stoneman is a Docker Captain, a 11-time Microsoft MVP, and the author of Learn Docker in a Month of Lunches. Table of Contents PART 1 - FAST TRACK TO KUBERNETES 1 Before you begin 2 Running containers in Kubernetes with Pods and Deployments 3 Connecting Pods over the network with Services 4 Configuring applications with ConfigMaps and Secrets 5 Storing data with volumes, mounts, and claims 6 Scaling applications across multiple Pods with controllers PART 2 - KUBERNETES IN THE REAL WORLD 7 Extending applications with multicontainer Pods 8 Running data-heavy apps with StatefulSets and Jobs 9 Managing app releases with rollouts and rollbacks 10 Packaging and managing apps with Helm 11 App development—Developer workflows and CI/CD PART 3 - PREPARING FOR PRODUCTION 12 Empowering self-healing apps 13 Centralizing logs with Fluentd and Elasticsearch 14 Monitoring applications with Kubernetes with Prometheus 15 Managing incoming traffic with Ingress 16 Securing applications with policies, contexts, and admission control PART 4 - PURE AND APPLIED KUBERNETES 17 Securing resources with role-based access control 18 Deploying Kubernetes: Multinode and multiarchitecture clusters 19 Controlling workload placement and automatic scaling 20 Extending Kubernetes with custom resources and Operators 21 Running serverless functions in Kubernetes 22 Never the end

Learn the key differences between containers and virtual machines. Adopting a project based approach, this book introduces you to a simple Python application to be developed and containerized with Docker. After an introduction to Containers and Docker you'll be guided through Docker installation and configuration. You'll also learn basic functions and commands used in Docker by running a simple container using Docker commands. The book then moves on to developing a Python based Messaging Bot using required libraries and virtual environment where you'll add Docker Volumes to your project, ensuring your container data is safe. You'll create a database container and link your project to it and finally, bring up the Bot-associated database all at once with Docker Compose. What You'll Learn Build, run, and distribute Docker containers Develop a Python App and containerize it Use Dockerfile to run the Python App Define and run multi-container applications with Docker Compose Work with persisting data generated by and used by Docker containers Who This Book Is For Intermediate developers/DevOps practitioners who are looking to improve their build and release workflow by containerizing applications

Updated for Docker Community Edition v18.09! Docker book designed for SysAdmins, SREs, Operations staff, Developers and DevOps who are interested in deploying the open source container service Docker. In this book, we'll walk you through installing, deploying, managing, and extending Docker. We're going to do that by first introducing you to the basics of Docker and its components. Then we'll start to use Docker to build containers and services to perform a variety of tasks. We're going to take you through the development lifecycle, from testing to production, and see where Docker fits in and how it can make your life easier. We'll make use of Docker to build test environments for new projects, demonstrate how to integrate Docker with continuous integration workflow, and then how to build application services and platforms. Finally, we'll show you how to use Docker's API and how to extend Docker yourself. We'll teach you how to: * Install Docker. * Take your first steps with a Docker container. * Build Docker images. * Manage and share Docker images. * Run and manage more complex Docker containers. * Deploy Docker containers as part of your testing pipeline. * Build multi-container applications and environments. * Learn about orchestration using Compose and Swarm for the orchestration of Docker containers and Consul for service discovery. * Explore the Docker API. * Getting Help and Extending Docker.

This book has everything you need to know about Windows Containers, from an IT pro and ops perspective. Containers are the next big thing in IT infrastructure. More and more, we see companies relying on Kubernetes implementations to run their workloads on-premises, in the cloud, or even in hybrid deployments. IT pros and ops teams are now faced with the challenge of getting up to speed on container architecture, knowing how it differs from virtual machines (VMs), and the best means and practices for managing their applications in containers. Windows Containers for IT Pros explores all of that, from the IT pro experience. You will approach learning about containers through the optics of an author who is accustomed to deploying virtual machines (VMs). You will learn about differences, parallel practices, use cases, and how to get started and go deep into day 2 operations. What You Will Learn Architect and deploy Windows Containers leveraging existing skills Containerize existing applications Know best practices for managing resources in Windows Containers Get comfortable moving containers to the cloud with Azure Understand the options for using containers on Azure Who This Book Is For Windows IT pros and technical professionals deploying Windows Server and server applications today, such as .NET, ASP.NET, IIS, and more. This book assumes little to no experience with scripting as readers deploy their workloads via one of the Windows UIs (Hyper-V, Server Manager, Windows Admin Center, etc.). Knowledge of VMs and infrastructure, such as clustered operating systems, is recommended but not required.

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