

Docker On Windows From 101 To Production With Docker On Windows

Demystify application development on cloud platform by leveraging the power of IBM Bluemix About This Book The first book in the market that discusses the power of IBM Bluemix Shows developers how to develop and deploy applications on the cloud platform using IBM Bluemix A comprehensive guide to help you get started with IBM Bluemix also featuring samples applications Who This Book Is For This book is aimed at developers seeking to learn application development and deployment methods on IBM Bluemix. A basic knowledge of Java and Node.js is assumed. What You Will Learn Discover IBM Bluemix as a PaaS platform and learn about its three delivery models Develop and deploy a "Hello World" application on IBM Bluemix using the Cloud Foundry command line utility and the Bluemix console Extend your application by using the API or services provided by IBM Bluemix Understand microservices architecture and learn how to develop a sample application based on microservices architecture, using IBM Bluemix Learn how to leverage on-premise software and build an application on IBM Bluemix Scale and monitor an application on IBM Bluemix Explore the compute options on IBM Bluemix and work with each of them Build a mobile client application using Mobile services on IBM Bluemix In Detail IBM Bluemix is an open standard platform for building, running, and managing applications on the cloud. With Bluemix, developers can build innovative applications using various compute options and value added services , developers can also manage the application lifecycle using the platform provided DevOps services.

Access Free Docker On Windows From 101 To Production With Docker On Windows

Learning IBM Bluemix will take you on a journey from the basics of IBM Bluemix to working with the platform to developing and deploying of modern applications. The sample application use cases employed in the book will introduce you to the transformative nexus of cloud, mobile, and security, all enabled through capabilities provided out-of-the-box by IBM Bluemix. By the end of the book, you will have understood the benefits and use cases for IBM Bluemix, and will possess the skills to further explore the platform and thus develop, deploy, and secure your own innovative, new-age applications. **Style and approach** This comprehensive, step-by-step guide to learning IBM Bluemix will cover everything that is required to build, deploy, manage, and secure an application on the cloud.

Explores the computer graphics program's new features, explaining how to use the interface to add graphics to Web pages, import and export images, and create multilayered objects. This book provides the state-of-the-art intelligent methods and techniques for solving real-world problems along with a vision of the future research. The fifth 2020 Future Technologies Conference was organized virtually and received a total of 590 submissions from academic pioneering researchers, scientists, industrial engineers, and students from all over the world. The submitted papers covered a wide range of important topics including but not limited to computing, electronics, artificial intelligence, robotics, security and communications and their applications to the real world. After a double-blind peer review process, 210 submissions (including 6 poster papers) have been selected to be included in these proceedings. One of the meaningful and valuable dimensions of this conference is the way it brings together a large group of technology geniuses in one venue to not only present breakthrough research in future technologies, but also to promote discussions and debate of relevant issues, challenges,

Access Free Docker On Windows From 101 To Production With Docker On Windows

opportunities and research findings. The authors hope that readers find the book interesting, exciting and inspiring.

Transit from monolithic architectures to highly available, scalable, and fault-tolerant microservices About This Book Build your own applications based on event-driven microservices and set them up on a production server. Successfully transform any monolithic application into a microservice. Monitor the health of your application, prevent downtime, and reduce costs. Who This Book Is For PHP developers who want to build scalable, highly available, and secure applications will find this book useful. No knowledge of microservices is assumed. What You Will Learn Set up a development environment using the right strategies and tools. Learn about application design and structure to start implementing your application. Transform a monolithic application into microservices. Explore the best way to start implementing your application using testing. Understand how to monitor your microservices, handle errors, and debug the application. Deploy your finished application into a production environment and learn how to solve common problems. Know how to scale your application based on microservices once it is up—and-running. In Detail The world is moving away from bulky, unreliable, and high-maintenance PHP applications, to small, easy-to-maintain and highly available microservices and the pressing need is for PHP developers to understand the criticalities in building effective microservices that scale at large. This book will be a reliable resource, and one that will help you to develop your skills and teach you techniques for building reliable microservices in PHP. The book begins with an introduction to the world of microservices, and quickly shows you how to set up a development environment and build a basic platform using Docker and Vagrant. You will then get into the different design aspects to

Access Free Docker On Windows From 101 To Production With Docker On Windows

be considered while building microservices in your favorite framework and you will explore topics such as testing, securing, and deploying microservices. You will also understand how to migrate a monolithic application to the microservice architecture while keeping scalability and best practices in mind. Furthermore you will get into a few important DevOps techniques that will help you progress on to more complex domains such as native cloud development, as well as some interesting design patterns. By the end of this book you will be able to develop applications based on microservices in an organized and efficient way. You will also gain the knowledge to transform any monolithic applications into microservices. Style and approach Filled with code that you can start typing straightaway, this book will take you through building, testing, securing, and deploying microservices in the most practical way possible. The focus of the book is more inclined towards showing you how it's done, rather than with what to do, although you will get a good idea of those tools most widely used to build microservices. 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

Access Free Docker On Windows From 101 To Production With Docker On Windows

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

Access Free Docker On Windows From 101 To Production With Docker On Windows

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.

This book takes you through tried and tested approaches to building distributed systems and implementing microservices architecture. It follows a single real-world project from start to finish, using Spring Boot, Spring Cloud, and a full suite of related tools and frameworks for development, security, testing, and deployment.

IBM® z/OS® Container Extensions (IBM zCX) is a new feature of the next version of the IBM z/OS Operating System (z/OS V2.4). It makes it possible to run Linux on IBM Z® applications that are packaged as Docker container images on z/OS. Application developers can develop, and data centers can operate, popular open source packages, Linux applications, IBM software, and third-party software together with z/OS applications and data. This IBM Redbooks® publication helps you to understand the concepts, business perspectives and reference architecture for installing, tailoring, and configuring zCX in your own environment.

"Social Issues in Sport, Second Edition," is an outstanding introduction to the multifaceted roles of sport and physical activity in society and the perfect tool for examining sport from a critical perspective. The text's engaging writing style, full-color format, and sound learning tools make it accessible and get students involved in and excited about the material. A full array of

Access Free Docker On Windows From 101 To Production With Docker On Windows

instructor resources and a variety of learning activities in each chapter make this book a highly functional and enjoyable way for instructors to introduce this subject to their students. This edition continues to engage students with real-world examples, connecting theory with the sports they view and participate in. Following are new and updated features: -A new chapter on the emerging area of sport and development, which describes how sport may be used to promote peace, socialization, and moral development -Expanded discussions of deviance in sport and social media phenomena that have become intertwined with the world of sport -Updated sidebars, including an increased number of Expert's View sidebars to help students take a theory-to-practice mind-set to their studies -The latest research in the field with current examples and statistics While the book is solidly grounded in research, it does not dwell on theory. "Social Issues in Sport, Second Edition," provides a deeper look at the issues, contradictions, and confusion surrounding sport for students in sport management, sport sociology, or other areas of sport studies. Students will find heavy emphasis on areas that other texts often overlook--including the role of coaches, importance of lifetime sport and fitness, and sport for special populations such as the physically and mentally challenged and the elderly. As a result, students gain a complete view of what constitutes sport and physical activity and a firm grasp of the sociocultural considerations vital to their understanding of sport. The MS-101 exam is part of the Microsoft 365 Certified: Enterprise Administrator Expert certification path in which users learn to evaluate, plan, migrate, deploy, and manage Microsoft 365 services. This book offers complete, up-to-date coverage of the MS-101 exam so you can take them with confidence, fully equipped to pass the first time.

????Go????????????????????????????????Go????????????????????Go????????????JavaScript?Ruby?Pyt

Access Free Docker On Windows From 101 To Production With Docker On Windows

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 ...

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

Access Free Docker On Windows From 101 To Production With Docker On Windows

into concepts such as Docker containers, Docker images, and Docker Compose. As you progress, the book will help you explore deployment, orchestration, networking, and security. Finally, you'll get to grips with Docker functionalities on public clouds such as Amazon Web Services (AWS), Azure, and Google Cloud Platform (GCP), and learn about Docker Enterprise Edition features. Additionally, you'll also discover the benefits of increased security with the use of containers. By the end of this Docker book, you'll be able to build, ship, and run a containerized, highly distributed application on Docker Swarm or Kubernetes, running on-premises or in the cloud. What you will learn

- Containerize your traditional or microservice-based applications
- Develop, modify, debug, and test an application running inside a container
- Share or ship your application as an immutable container image
- Build a Docker Swarm and a Kubernetes cluster in the cloud
- Run a highly distributed application using Docker Swarm or Kubernetes
- Update or rollback a distributed application with zero downtime
- Secure your applications with encapsulation, networks, and secrets
- Troubleshoot a containerized, highly distributed application in the cloud

Who this book is for This book is for Linux professionals, system administrators, operations engineers, DevOps engineers, and developers or stakeholders who are interested in getting started with Docker from scratch. No prior experience with Docker containers is required. Users with a Linux system would be able to take full advantage of this book.

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,

Access Free Docker On Windows From 101 To Production With Docker On Windows

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

Get introduced to the world of Docker containers from a SQL Server DBA's

Access Free Docker On Windows From 101 To Production With Docker On Windows

perspective. This book explains container technology and how it can improve the deployment of your SQL Server databases without infrastructure lock-in. You will be equipped with the right technical skills to guide stakeholders in your business as they adopt and adapt to new technologies to improve time-to-market and competitiveness. You will learn how to build a lab environment at home on which to build skills that transfer directly into your day job. This book teaches you how to install and configure Docker on both Windows Server and Linux operating systems. You will learn the most common Docker commands that you need to know as a DBA to deploy and manage SQL Server on containers. Support for SQL Server on Linux is new, and this book has your back with guidance on creating Docker images specifically for deployment to a Linux platform. Included is coverage of key Linux commands needed to manage SQL Server on that operating system. By the end of the book you will have learned how to create your own custom SQL Server container images with configuration settings that are specific to your organization, that are capable of being deployed to both Windows Server and Linux. What You Will Learn Create Docker containers for agile deployment of SQL Server Run multiple SQL Server instances on a single Linux machine Deploy custom images specific to your organization's needs Know the benefits and architecture of container technology Install and configure

Access Free Docker On Windows From 101 To Production With Docker On Windows

Docker on Windows Server and Linux Manage and persist SQL Server data in Docker containers Who This Book Is For Intermediate to senior SQL Server DBAs who are familiar with SQL Server on Windows and want to build their existing skills to deploy and manage SQL Server on Linux and through Docker containers. Readers should have a grasp of relational database concepts and be comfortable with the Transact-SQL language.

Knowledge of desktop publishing is essential to securing a job as a computer operator or to start your own DTP studio. This 7- in - 1 book covers CorelDRAW, Photoshop, PageMaker, QuarkXPress, MS Publisher, Corel VENTURA, and Adobe illustrator, besides necessary details about basics of printing and publishing y all necessary components to create high quality brochures, books, flyers, newsletters, magazines etc.

A practical approach to conquering the complexities of Microservices using the Python tooling ecosystem About This Book A very useful guide for Python developers who are shifting to the new microservices-based development A concise, up-to-date guide to building efficient and lightweight microservices in Python using Flask, Tox, and other tools Learn to use Docker containers, CoreOS, and Amazon Web Services to deploy your services Who This Book Is For This book is for developers who have basic knowledge of Python, the

Access Free Docker On Windows From 101 To Production With Docker On Windows

command line, and HTTP-based application principles, and those who want to learn how to build, test, scale, and manage Python 3 microservices. No prior experience of writing microservices in Python is assumed. What You Will Learn Explore what microservices are and how to design them Use Python 3, Flask, Tox, and other tools to build your services using best practices Learn how to use a TDD approach Discover how to document your microservices Configure and package your code in the best way Interact with other services Secure, monitor, and scale your services Deploy your services in Docker containers, CoreOS, and Amazon Web Services In Detail We often deploy our web applications into the cloud, and our code needs to interact with many third-party services. An efficient way to build applications to do this is through microservices architecture. But, in practice, it's hard to get this right due to the complexity of all the pieces interacting with each other. This book will teach you how to overcome these issues and craft applications that are built as small standard units, using all the proven best practices and avoiding the usual traps. It's a practical book: you'll build everything using Python 3 and its amazing tooling ecosystem. You will understand the principles of TDD and apply them. You will use Flask, Tox, and other tools to build your services using best practices. You will learn how to secure connections between services, and how to script Nginx using Lua to build

Access Free Docker On Windows From 101 To Production With Docker On Windows

Swarm?Azure Container Service????????? ??????PowerShell DSC?????Nano Server???? #???? GOTOP Information Inc.

A journey toward containerized applications in production with a cloud-portable, secure, robust and highly available Docker Enterprise platform. Key Features Get an insider's view into the container movement and Docker Enterprise Manage the transformation associated with enterprise container adoption Walk through the enterprise container adoption journey Book Description While known mostly as the open source engine behind tens of millions of server nodes, Docker also offers commercially supported enterprise tooling known as the Docker Enterprise. This platform leverages the deep roots from Docker Engine - Community (formerly Docker CE) and Kubernetes, but adds support and tooling to efficiently operate a secure container platform at scale. With hundreds of enterprises on board, best practices and adoption patterns are emerging rapidly. These learning points can be used to inform adopters and help manage the enterprise transformation associated with enterprise container adoption. This book starts by explaining the case for Docker Enterprise, as well as its structure and reference architecture. From there, we progress through the PoC,pilot and production stages as a working model for adoption, evolving the platform's design and configuration for each stage and using detailed application examples along the

Access Free Docker On Windows From 101 To Production With Docker On Windows

?????Azure????????????????? ?????????? ???Docker????????????????Registry?swarms
??Windows 10?Windows Server 2016??????????Docker
??????Docker?????????????????? ??Docker Swarm????????????????????
??????Docker???????????????????? ??Docker??Jenkins?????????????? ???Visual
Studio????Docker???????????????? ??????????Docker #????? GOTOP Information Inc.
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

Access Free Docker On Windows From 101 To Production With Docker On Windows

Docker containers. * Deploy Docker containers as part of your testing pipeline. * Build multi-container applications and environments. * Learn about orchestration using Compose and Swarm for the orchestration of Docker containers and Consul for service discovery. * Explore the Docker API. * Getting Help and Extending Docker.

Docker 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 Playing with Java Microservices on Kubernetes and OpenShift will teach you how to build and design microservices using Java and the Spring platform. This book covers topics related to

Access Free Docker On Windows From 101 To Production With Docker On Windows

creating Java microservices and deploy them to Kubernetes and OpenShift. Traditionally, Java developers have been used to developing large, complex monolithic applications. The experience of developing and deploying monoliths has been always slow and painful. This book will help Java developers to quickly get started with the features and the concerns of the microservices architecture. It will introduce Docker, Kubernetes and OpenShift to help them deploying their microservices. The book is written for Java developers who wants to build microservices using the Spring Boot/Cloud stack and who wants to deploy them to Kubernetes and OpenShift. You will be guided on how to install the appropriate tools to work properly. For those who are new to Enterprise Development using Spring Boot, you will be introduced to its core principles and main features thru a deep step-by-step tutorial on many components. For experts, this book offers some recipes that illustrate how to split monoliths and implement microservices and deploy them as containers to Kubernetes and OpenShift. The following are some of the key challenges that we will address in this book: - Introducing Spring Boot/Cloud for beginners - Splitting a monolith using the Domain Driven Design approach - Implementing the cloud & microservices patterns - Rethinking the deployment process - Introducing containerization, Docker, Kubernetes and OpenShift By the end of reading this book, you will have practical hands-on experience of building microservices using Spring Boot/Cloud and you will master deploying them as containers to Kubernetes and OpenShift.

Leverage the lethal combination of Docker and Kubernetes to automate deployment and management of Java applications About This Book Master using Docker and Kubernetes to build, deploy and manage Java applications in a jiff Learn how to create your own Docker image and customize your own cluster using Kubernetes Empower the journey from

Access Free Docker On Windows From 101 To Production With Docker On Windows

development to production using this practical guide. Who This Book Is For The book is aimed at Java developers who are eager to build, deploy, and manage applications very quickly using container technology. They need have no knowledge of Docker and Kubernetes. What You Will Learn Package Java applications into Docker images Understand the running of containers locally Explore development and deployment options with Docker Integrate Docker into Maven builds Manage and monitor Java applications running on Kubernetes clusters Create Continuous Delivery pipelines for Java applications deployed to Kubernetes In Detail Imagine creating and testing Java EE applications on Apache Tomcat Server or Wildfly Application server in minutes along with deploying and managing Java applications swiftly. Sounds too good to be true? But you have a reason to cheer as such scenarios are only possible by leveraging Docker and Kubernetes. This book will start by introducing Docker and delve deep into its networking and persistent storage concepts. You will then proceed to learn how to refactor monolith application into separate services by building an application and then packaging it into Docker containers. Next, you will create an image containing Java Enterprise Application and later run it using Docker. Moving on, the book will focus on Kubernetes and its features and you will learn to deploy a Java application to Kubernetes using Maven and monitor a Java application in production. By the end of the book, you will get hands-on with some more advanced topics to further extend your knowledge about Docker and Kubernetes. Style and approach An easy-to-follow, practical guide that will help Java developers develop, deploy, and manage Java applications efficiently.

????:????????????

?????????????????Mark Russinovich?David

Access Free Docker On Windows From 101 To Production With Docker On Windows

Solomon???Windows?????????????,?????????Windows????????????????????

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.

Access Free Docker On Windows From 101 To Production With Docker On Windows

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

Your one-stop reference for Windows Server 2019 and PowerShell know-how *Windows Server 2019 & PowerShell All-in-One For Dummies* offers a single reference to help you build and expand your knowledge of all things Windows Server, including the all-important PowerShell framework. Written by an information security pro and professor who trains aspiring system administrators, this book covers the broad range of topics a system administrator needs to know to run Windows Server 2019, including how to install, configure, and secure a system.

Access Free Docker On Windows From 101 To Production With Docker On Windows

This book includes coverage of: Installing & Setting Up Windows Server Configuring Windows Server 2019 Administering Windows Server 2019 Configuring Networking Managing Security Working with Windows PowerShell Installing and Administering Hyper-V Installing, Configuring, and Using Containers If you're a budding or experienced system administrator looking to build or expand your knowledge of Windows Server, this book has you covered.

This third edition covers all the essential information and more in-depth topics needed to implement and utilize Microsoft Windows Server 2019 at the core of your datacenter.

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

Simple, step-by-step instructions provide fast-track learning solutions. This guide details the

Access Free Docker On Windows From 101 To Production With Docker On Windows

powerful new features included in CorelDRAW's latest version. Handy page tabs offer easy access to specific tasks.

An expert guide for IT administrators needing to create and manage a public cloud and virtual network using Microsoft Azure With Microsoft Azure challenging Amazon Web Services (AWS) for market share, there has been no better time for IT professionals to broaden and expand their knowledge of Microsoft's flagship virtualization and cloud computing service. Microsoft Azure Infrastructure Services for Architects: Designing Cloud Solutions helps readers develop the skills required to understand the capabilities of Microsoft Azure for Infrastructure Services and implement a public cloud to achieve full virtualization of data, both on and off premise. Microsoft Azure provides granular control in choosing core infrastructure components, enabling IT administrators to deploy new Windows Server and Linux virtual machines, adjust usage as requirements change, and scale to meet the infrastructure needs of their entire organization. This accurate, authoritative book covers topics including IaaS cost and options, customizing VM storage, enabling external connectivity to Azure virtual machines, extending Azure Active Directory, replicating and backing up to Azure, disaster recovery, and much more. New users and experienced professionals alike will: Get expert guidance on understanding, evaluating, deploying, and maintaining Microsoft Azure environments from Microsoft MVP and technical specialist John Savill Develop the skills to set up cloud-based virtual machines, deploy web servers, configure hosted data stores, and use other key Azure technologies Understand how to design and implement serverless and hybrid solutions Learn to use enterprise security guidelines for Azure deployment Offering the most up to date information and practical advice, Microsoft Azure Infrastructure Services for Architects: Designing Cloud Solutions is an

Access Free Docker On Windows From 101 To Production With Docker On Windows

essential resource for IT administrators, consultants and engineers responsible for learning, designing, implementing, managing, and maintaining Microsoft virtualization and cloud technologies.

Build, package, and deploy applications as easily manageable and shippable containers.

About This Book Discover the secret to building highly portable apps that run on any machine with Windows Server 2016 anywhere, from laptops, desktop servers, and public or private clouds, without any changes to the code Build your company cost-effective, container-based apps that support large-scale, virtual cloud environments The most up-to-date help on the market, offering developers expert guidance in building and shipping high-quality apps, and also helping admins create infrastructure that's simple to maintain Who This Book Is For This book is for application developers with a basic programming knowledge of C#, ASP.NET, and PowerShell. IT Administrators or DevOps engineers with basic PowerShell experience can benefit by extending their learning to use PowerShell to manage containers on Windows environments and use additional management tools. What You Will Learn Build and deploy ASP.NET web applications as Windows Containers on Windows 10 (Desktop) and Azure using Visual Studio 2015, Docker, and PowerShell Build and manage custom images using Windows Server Core base OS image and Docker CLI, publish images to Docker, tag images, author Docker files, and so on Create enterprise-scale, production-grade container environments using Redis Cache containers and SQL Server containers with storage volumes, set up custom container networks, continuous integration, and deployment pipelines using VSTS, Azure, and Git Deploy a composite container environment using Docker Compose on Windows Learn to build applications using Microsoft's thinnest server platform - Nano Servers. Build

Access Free Docker On Windows From 101 To Production With Docker On Windows

custom Nano Server images and Nano Containers using Windows PowerShell and configure using PowerShell Core, DSC In Detail Windows Server Containers are independent, isolated, manageable and portable application environments which are light weight and shippable. Decomposing your application into smaller manageable components or MicroServices helps in building scalable and distributed application environments. Windows Server Containers have a significant impact on application developers, development operations (DevOps) and infrastructure management teams. Applications can be built, shipped and deployed in a fast-paced manner on an easily manageable and updatable environment. Learning Windows Server Containers teaches you to build simple to advanced production grade container based application using Asp.Net Core, Visual Studio, Azure, Docker and PowerShell technologies. The book teaches you to build and deploy simple web applications as Windows and Hyper-V containers on Windows 10 and Windows Server 2016 on Azure. You will learn to build on top of Windows Container Base OS Images, integrate with existing images from Docker Hub, create custom images and publish to Hub. You will also learn to work with storage containers built using Volumes and SQL Server as container, create and configure custom networks, integrate with Redis Cache containers, configure continuous integration and deployment pipelines using VSTS and Git Repository. Further you can also learn to manage resources for a container, setting up monitoring and diagnostics, deploy composite container environments using Docker Compose on Windows and manage container clusters using Docker Swarm. The last chapter of the book focuses on building applications using Microsoft's new and thinnest server platform – Nano Servers. Style and approach This hands-on tutorial helps you get started with Windows Server containers, the new trend in the container market. This example-

Access Free Docker On Windows From 101 To Production With Docker On Windows

driven guide is packed with real-world scenarios of Windows Server containers in production environments.

Serverless computing greatly simplifies software development. Your team can focus solely on your application while the cloud provider manages the servers you need. This practical guide shows you step-by-step how to build and deploy complex applications in a flexible multicloud, multilanguage environment using Apache OpenWhisk. You'll learn how this platform enables you to pursue a vendor-independent approach using preconfigured containers, microservices, and Kubernetes as your cloud operating system. Michele Sciabarrà demonstrates how to build a serverless application using classical design patterns and the programming language or languages that best fit your task. You'll start by building a simple serverless application hands-on before diving into the more complex aspects of the OpenWhisk platform. Examine how OpenWhisk's serverless architecture works, including the use of packages, actions, sequences, triggers, rules, and feeds Learn how OpenWhisk compares to existing architectures, such as Java Enterprise Edition Manipulate OpenWhisk features using the command-line interface or a JavaScript API Design applications using common Gang of Four design patterns Use architectural design patterns such as model-view-controller to combine several OpenWhisk actions Learn how to test and debug your code in a serverless environment

Your roadmap to Microsoft Azure Azure is Microsoft's flagship cloud computing platform. With over 600 services available to over 44 geographic regions, it would take a library of books to cover the entire Azure ecosystem. Microsoft Azure For Dummies offers a shortcut to getting familiar with Azure's core product offerings used by the majority of its subscribers. It's a

Access Free Docker On Windows From 101 To Production With Docker On Windows

perfect choice for those looking to gain a quick, basic understanding of this ever-evolving public cloud platform. Written by a Microsoft MVP and Microsoft Certified Azure Solutions Architect, Microsoft Azure For Dummies covers building virtual networks, configuring cloud-based virtual machines, launching and scaling web applications, migrating on-premises services to Azure, and keeping your Azure resources secure and compliant. Migrate your applications and services to Azure with confidence Manage virtual machines smarter than you've done on premises Deploy web applications that scale dynamically to save you money and effort Apply Microsoft's latest security technologies to ensure compliance to maintain data privacy With more and more businesses making the leap to run their applications and services on Microsoft Azure, basic understanding of the technology is becoming essential. Microsoft Azure For Dummies offers a fast and easy first step into the Microsoft public cloud.

La Technologie NET de Microsoft a été créé en 2001. NET c'est la suite de COM et la volonté de Microsoft de faire des Applications Windows aussi facilement qu'en Visual Basic mais aussi performantes qu'en Visual C++. Le langage C# est vaste et permet de réaliser des applications orientée objet très facilement avec un niveau de complexité assez puissant. Au travers de ces articles techniques, vous trouverez de nombreux exemples de types de cas qui vous permettront d'adopter un style professionnel et de devenir un Expert NET. NET c'est l'avenir du développement selon Microsoft donc, vus avez tout votre temps... La maitrise de NET est un chemin long et sinueux...

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

Access Free Docker On Windows From 101 To Production With Docker On Windows

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 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.

[Copyright: 0617f0d6a19e729ca653717b9c676181](https://www.pdfdrive.com/docker-on-windows-from-101-to-production-with-docker-on-windows-ebook.html)