Docker Containers

From Start to Enterprise

Christopher Negus

And Docker Containers Content Update Program

Jose Manuel Ortega Candel

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 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 How to access the Web Edition Follow the instructions inside to learn how to register your book to access the FREE Web Edition **Computer Supported Cooperative Work and Social Computing** Yuqing Sun,Tun Lu,Xiaolan Xie,Liping

Gao,Hongfei Fan,2018-12-11 This book constitutes the refereed proceedings of the 13th CCF Conference on Computer Supported Cooperative Work and Social Computing ChineseCSCW 2018 held in Guilin China in August 2018 The 33 revised full papers presented along with the 13 short papers were carefully reviewed and selected from 150 submissions The papers of this volume are organized in topical sections on collaborative models approaches algorithms and systems social computing data analysis and machine learning for CSCW and social computing   *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 DescriptionThe 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

   Docker High Performance Allan Espinosa,Russ McKendrick,2019-04-30 Leverage Docker to unlock efficient and rapid container deployments to improve your development workflow Key FeaturesReconfigure Docker hosts to create a logging system with the ElasticSearch Logstash Kibana ELK stackTackle the challenges of large scale container deployment with this fast paced guideBenchmark the performance of your Docker containers using Apache JMeterBook Description Docker is an enterprise grade container platform that allows you to build and deploy your apps Its portable format lets you run your code

right from your desktop workstations to popular cloud computing providers This comprehensive guide will improve your Docker workflows and ensure your application s production environment runs smoothly This book starts with a refresher on setting up and running Docker and details the basic setup for creating a Docker Swarm cluster You will then learn how to automate this cluster by using Chef Server and Cookbook After that you will run the Docker monitoring system with Prometheus and Grafana and deploy the ELK stack You will also learn some tips for optimizing Docker images After deploying containers with the help of Jenkins you will then move on to a tutorial on using Apache JMeter to analyze your application s performance You will learn how to use Docker Swarm and NGINX to load balance your application and how common debugging tools in Linux can be used to troubleshoot Docker containers By the end of this book you will be able to integrate all the optimizations that you have learned and put everything into practice in your applications What you will learnAutomate provisioning and setting up nodes in a Docker Swarm clusterConfigure a monitoring system with Prometheus and GrafanaUse Apache JMeter to create workloads for benchmarking the performance of Docker containersUnderstand how to load balance an application with Docker Swarm and NginxDeploy strace tcdump blktrace and other Linux debugging tools to troubleshoot containersIntegrate Docker optimizations for DevOps Site Reliability Engineering CI and CDWho this book is for If you are a software developer with a good understanding of managing Docker services and the Linux file system and are looking for ways to optimize working with Docker containers then this is the book for you Developers fascinated with containers and workflow automation with benefit from this book   **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   *CompTIA Cloud Essentials+ Certification Study Guide, Second Edition (Exam CLO-002)* Daniel Lachance,2020-02-28 Publisher s Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product The best IT certification exam study system available Filled with hands on exercises and practice exam questions CompTIA Cloud Essentials TM Certification Study Guide Second Edition Exam CLO 002 covers what you need to know and shows you how to prepare for this challenging exam 100% complete coverage of all official objectives for exam CLO 002 Exam Readiness checklist you re ready for the exam when all objectives on the list are checked off Exam Watch notes call attention to information about and potential pitfalls in the exam Two Minute Drills for quick review at the end of every chapter Simulated exam questions match the format tone topics and difficulty of the real exam Covers all the exam topics including The Principles of Cloud Computing The Business Side of Cloud Computing Cloud Planning Compliance and the Cloud Cloud Storage Infrastructure Cloud Network Infrastructure Cloud Computing Infrastructure Applications and Big Data in the Cloud Cloud DevOps Security and the Cloud Managing Cloud Risk Online content includes Test engine that provides full length practice exams and customized quizzes by chapter or by exam domain Access to entire book PDF

   Docker Containers Chris Negus,William Henry,2016   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   National Union Catalog

,1983 **Docker: Up & Running** Sean P. Kane,Karl Matthias,2018-09-07 Docker is rapidly changing the way organizations deploy software at scale However understanding how Linux containers fit into your workflow and getting the integration details right is not a trivial task With the updated edition of this practical guide you ll learn how to use Docker to package your applications with all of their dependencies and then test ship scale and support your containers in production This edition includes significant updates to the examples and explanations that reflect the substantial changes that have occurred over the past couple of years Sean Kane and Karl Matthias have added a complete chapter on Docker Compose deeper coverage of Docker Swarm mode introductions to both Kubernetes and AWS Fargate examples on how to optimize your Docker images and much more Learn how Docker simplifies dependency management and deployment workflow for your applications Start working with Docker images containers and command line tools Use practical techniques to deploy and test Docker containers in production Debug containers by understanding their composition and internal processes Deploy production containers at scale inside your data center or cloud environment Explore advanced Docker topics including deployment tools networking orchestration security and configuration **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 TABLE OF CONTENTS 1 Getting started with DevOps 2 Container platforms 3 Managing Containers and Docker images 4 Getting started with Docker security 5 Docker host security 6 Docker images security 7 Auditing and analyzing vulnerabilities in Docker containers 8 Kubernetes security 9 Docker container networking 10 Docker container monitoring 11 Docker container administration

   The Docker Book James Turnbull,2014-07-14 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   *Docker for Developers* Richard Bullington-McGuire,Andrew K. Dennis,Michael Schwartz,2020-09-14 Learn how to deploy and test Linux based Docker containers with the help of real world use cases Key FeaturesUnderstand how to make a deployment workflow run smoothly with Docker containersLearn Docker and DevOps concepts such as continuous integration and continuous deployment CI CD Gain insights into using various Docker tools and librariesBook Description Docker is the de facto standard for containerizing apps and with an increasing number of software projects migrating to containers it is crucial for engineers and DevOps teams to understand how to build deploy and secure Docker environments effectively Docker for Developers will help you understand Docker containers from scratch while taking you through best practices and showing you how to address security concerns Starting with an introduction to Docker you ll learn how to use containers and VirtualBox for development You ll explore how containers work and develop projects within them after you ve explored different ways to deploy and run containers The book will also show you how to use Docker containers in production in both

single host set ups and in clusters and deploy them using Jenkins Kubernetes and Spinnaker As you advance you ll get to grips with monitoring securing and scaling Docker using tools such as Prometheus and Grafana Later you ll be able to deploy Docker containers to a variety of environments including the cloud native Amazon Elastic Kubernetes Service Amazon EKS before finally delving into Docker security concepts and best practices By the end of the Docker book you ll be able to not only work in a container driven environment confidently but also use Docker for both new and existing projects What you will learnGet up to speed with creating containers and understand how they workPackage and deploy your containers to a variety of platformsWork with containers in the cloud and on the Kubernetes platformDeploy and then monitor the health and logs of running containersExplore best practices for working with containers from a security perspectiveBecome familiar with scanning containers and using third party security tools and librariesWho this book is for If you re a software engineer new to containerization or a DevOps engineer responsible for deploying Docker containers in the cloud and building DevOps pipelines for container based projects you ll find this book useful This Docker containers book is also a handy reference guide for anyone working with a Docker based DevOps ecosystem or interested in understanding the security implications and best practices for working in container driven environments **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 *Docker: Up and Running* Dr. Gabriel Nicolas Schenker,2023-04-20 A hands on guide that will help you compose package deploy and manage applications with ease KEY FEATURES Get familiar and work with key components of Docker Learn how to automate CI CD pipeline using Docker and Jenkins Uncover the top Docker interview questions to crack your next interview

DESCRIPTION Containers are one of the disruptive technologies in IT that have fundamentally changed how software is build shipped and run today If you want to pursue a career as a Software engineer or a DevOps professional then this book is for you The book starts by introducing Docker and teaches you how to write and run commands in Docker The book then explains how to create Docker files images and containers and while doing so you get a stronghold of Docker tools like Docker Images Dockerfiles and Docker Compose The book will also help you learn how to work with existing container images and how to build test and ship your containers containing your applications Furthermore the book will help you to deploy and run your containerized applications on Kubernetes and in the cloud By the end of the book you will be able to build and deploy enterprise applications with ease WHAT YOU WILL LEARN Learn how to test and debug containerized applications Understand how container orchestration works in Kubernetes Monitor your Docker container s log using Prometheus and Grafana Deploy update and scale applications into a Kubernetes cluster using different strategies Learn how to use Snyk to scan vulnerabilities in Docker WHO THIS BOOK IS FOR This book is for System administrators Software engineers DevOps aspirants Application engineers and Application developers TABLE OF CONTENTS 1 Explaining Containers and their Benefits 2 Setting Up Your Environment 3 Getting Familiar with Containers 4 Using Existing Docker Images 5 Creating Your Own Docker Image 6 Demystifying Container Networking 7 Managing Complex Apps with Docker Compose 8 Testing and Debugging Containerized Applications 9 Establishing an Automated Build Pipeline 10 Orchestrating Containers 11 Leveraging Docker Logs to Provide Insight into Your Apps 12 Enabling Zero Downtime Deployments 13 Securing Containers   **Learn Docker in a Month of Lunches** Elton Stoneman,2020-06-13 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 applica tions 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 Follow ing 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   **Docker Demystified** Saibal Ghosh,2020-10-03 Build robust and secure applications using the building blocks of DockerKey Featuresa Understand the fundamentals of Containers a Understand the working of the entire Docker ecosystem a Learn how to utilize Docker Networking capabilities to its fullest a Learn how to secure Docker Containers a Get familiar and work with Docker Enterprise Edition DescriptionThe book starts by introducing Containers and explains how they are different from virtual machines and why they are the preferred tool for developing applications You will understand the working of Images Containers and their associated Storage and will see how all the moving parts bind together to work synchronously The book will then focus on Docker Swarm the mechanism for orchestrating several running Docker containers It then delves deeper into Docker Networking Towards the end you will learn how to secure your applications especially by leveraging the native features of Docker Enterprise Edition What will you learna Learn how to use Docker Images a Get to know more about Docker Storage a Learn how to use Volume plugins in Docker services a Learn how to deploy a service to the Swarm a Learn how to manage scale and maintain containerized applications Who this book is forThis book is for anyone who is looking to learn Docker It is also useful for professionals who are looking to build and deploy web apps using Docker Table of Contents1 Introduction to Containerization and Docker2 Containers and Images3 Storage Drivers and Volumes4 The Container Network Model and the Docker Bridge5 Docker Swarm6 Docker Networking7 Docker Security 18 Docker Security IIAbout the AuthorsSaibal Ghosh has spent a substantial part of his career working with databases However in the last few years he gravitated towards the cloud cloud security and newer technologies like Docker and Kubernetes He has developed a deep

understanding of these concepts and technologies bolstered by the insight gained from many years of experience working with applications databases storage and infrastructure and the understanding of how data is stored moved and secured He currently works as a Principal Architect in Ericsson India Ltd and spends a substantial amount of time playing around with Docker and Kubernetes He holds numerous certifications around applications databases cloud and cloud security and is also a member of Leader s Excellence Harvard Square Your LinkedIn Profile https www linkedin com in saibal ghosh mle ccsk prince2 469b0a7 **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

Learn Docker - Fundamentals of Docker 18.x Gabriel N. Schenker,2018-04-26 Enhance your software deployment workflow using containers Key Features Get up and running with basic to advanced concepts of Docker Get acquainted with concepts such as Docker containers Docker images orchestrators and so on Practical test based approach to learning a prominent containerization tool Book Description Docker containers have revolutionized the software supply chain in small and big enterprises Never before has a new technology so rapidly penetrated the top 500 enterprises worldwide Companies that embrace containers and containerize their traditional mission critical applications have reported savings of at least 50%

in total maintenance cost and a reduction of 90% or more of the time required to deploy new versions of those applications Furthermore they are benefitting from increased security just by using containers as opposed to running applications outside containers This book starts from scratch introducing you to Docker fundamentals and setting up an environment to work with it Then we delve into concepts such as Docker containers Docker images Docker Compose and so on We will also cover the concepts of deployment orchestration networking and security Furthermore we explain Docker functionalities on public clouds such as AWS By the end of this book you will have hands on experience working with Docker containers and orchestrators such as SwarmKit and Kubernetes What you will learn Containerize your traditional or microservice based application 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 via encapsulation networks and secrets Know your options when deploying your containerized app into the cloud Who this book is for This book is targeted at 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 **Essential Docker for ASP.NET Core MVC** Adam Freeman,2017-04-06 Find out how to use Docker in your ASP NET Core MVC applications and how containers make it easier to develop deploy and manage those applications in production environments Packed with examples and practical demonstrations this book will help you deploy even large scale cross platform web applications from development into production Best selling author Adam Freeman takes you on a whirlwind tour of Docker from creating a consistent development environment for your team to deploying a project and scaling it up in production By the end of the book you will have a solid understanding of what Docker does how it does it and why it is useful when developing and deploying ASP NET Core MVC applications What You Will Learn Gain a solid understanding of Docker what it is and why you should be using it for your ASP NET Core MVC applications Use Docker to create a development platform for ASP NET Core MVC so that applications behave consistently across development and production Use Docker to test deploy and manage ASP NET Core MVC containers Use Docker Swarms to scale up applications to cope with large workloads Who This Book Is For ASP NET Core MVC developers who want to use Docker to containerize and manage their applications

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And Docker Containers Content Update Program Introduction

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