

Learning Coreos Guide For Beginners

English Editi

Programming Flutter Carmine Zaccagnino.2020-02-25 Work in Flutter, a framework designed from the ground up for dual platform development, with support for native Java/Kotlin or Objective-C/Swift methods from Flutter apps. Write your next app in one language and build it for both Android and iOS. Deliver the native look, feel, and performance you and your users expect from an app written with each platform's own tools and languages. Deliver apps fast, doing half the work you were doing before and exploiting powerful new features to speed up development. Write once, run anywhere. Learn Flutter, Google's multi-platform mobile development framework. Instantly view the changes you make to an app with stateful hot reload and define a declarative UI in the same language as the app logic, without having to use separate XML UI files. You can also reuse existing platform-specific Android and iOS code and interact with it in an efficient and simple way. Use built-in UI elements - or build your own - to create a simple calculator app. Run native Java/Kotlin or Objective-C/Swift methods from your Flutter apps, and use a Flutter package to make HTTP requests to a Web API or to perform read and write operations on local storage. Apply visual effects to widgets, create transitions and animations, create a chat app using Firebase, and deploy everything on both platforms. Get native look and feel and performance in your Android and iOS apps, and the ability to build for both platforms from a single code base. What You Need: Flutter can

be used for Android development on any Linux, Windows or macOS computer, but macOS is needed for iOS development.

Learning Coreos Gregory Blake.2017-05-29 This book is an exploration of CoreOS, which is a Linux distribution. The book first explains to you what CoreOS is, and its features are explored in general. The CoreOS supports the building or creating of what are known as clusters in the system. This book guides you on how to create your own clusters in CoreOS from scratch. JavaScript is one of the latest web technologies which are in use today. Node.js is a JavaScript library. This book guides you on how to setup and run your Node.js applications in a CoreOS system. You will learn how = to deploy the application in the CoreOS and then run it from there. It is also possible for you to setup Kubernetes and CoreOS in the AWS (Amazon Web Services). This book helps you learn how to do this on your own. CoreOS can be run in a number of environments, regardless of whether private, public, or virtual. This book will help you learn how to setup the CoreOS in OpenStack. You will then be running your CoreOS from OpenStack. With CoreOS, you can deploy and run your web applications. It supports the deployment of Nginx, which is a web server similar to the Apache web server. This book helps you learn how to run web apps on CoreOS. Load balancing is also good in a CoreOS environment. This book guides you on how to achieve this. The following topics are discussed in this book: - What is CoreOS? - Setting up a Cluster - Running Node.js Apps on the Cluster - Kubernetes with CoreOS on the AWS - Running CoreOS on OpenStack - How to Deploy Web Apps in CoreOS - Load Balancing

Cisco Certified DevNet Associate DEVASC 200-901 Official Cert Guide Chris Jackson,Jason Gooley,Adrian Iliesiu,Ashutosh Malegaonkar.2020-10-07 This is the eBook edition of the Cisco Certified DevNet Associate DEVASC 200-901 Official Cert Guide. This eBook does not include access

to the companion website with practice exam that comes with the print edition. Access to the video mentoring is available through product registration at Cisco Press; or see the instructions in the back pages of your eBook. Trust the best-selling Official Cert Guide series from Cisco Press to help you learn, prepare, and practice for exam success. They are built with the objective of providing assessment, review, and practice to help ensure you are fully prepared for your certification exam. Master Cisco Certified DevNet Associate DEVASC 200-901 exam topics Assess your knowledge with chapter-opening quizzes Review key concepts with exam preparation tasks Learn from more than two hours of video mentoring Cisco Certified DevNet Associate DEVASC 200-901 Official Cert Guide presents you with an organized test preparation routine through the use of proven series elements and techniques. "Do I Know This Already?" quizzes open each chapter and enable you to decide how much time you need to spend on each section. Exam topic lists make referencing easy. Chapter-ending Exam Preparation Tasks help you drill on key concepts you must know thoroughly. Cisco Certified DevNet Associate DEVASC 200-901 Official Cert Guide focuses specifically on the objectives for the Cisco Certified DevNet Associate DEVASC exam. Four leading Cisco technology experts share preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. Material is presented in a concise manner, focusing on increasing your understanding and retention of exam topics. Well regarded for its level of detail, assessment features, comprehensive design scenarios, , this official study guide helps you master the concepts and techniques that will enable you to succeed on the exam the first time. The official study guide helps you master all the topics on the Cisco Certified DevNet Associate DEVASC 200-901 exam, including: Software Development and Design Understanding and Using APIs Cisco Platforms and Development Application Deployment and Security Infrastructure and

Automation Network Fundamentals

Docker Quick Start Guide Earl Waud.2018-11-29 Develop and build your Docker images and deploy your Docker containers securely. Key FeaturesLearn Docker installation on different types of OSGet started with developing Docker imagesUse Docker with your Jenkins CI/CD systemBook Description Docker is an open source software platform that helps you with creating, deploying, and running your applications using containers. This book is your ideal introduction to Docker and containerization. You will learn how to set up a Docker development environment on a Linux, Mac, or Windows workstation, and learn your way around all the commands to run and manage your Docker images and containers. You will explore the Dockerfile and learn how to build your own enterprise-grade Docker images. Then you will learn about Docker networks, Docker swarm, and Docker volumes, and how to use these features with Docker stacks in order to define, deploy, and maintain highly-scalable, fault-tolerant multi-container applications. Finally, you will learn how to leverage Docker with Jenkins to automate the building of Docker images and the deployment of Docker containers. By the end of this book, you will be well prepared when it comes to using Docker for your next project. What you will learnSet up your Docker workstation on various platformsUtilize a number of Docker commands with parametersCreate Docker images using DockerfilesLearn how to create and use Docker volumesDeploy multi-node Docker swarm infrastructureCreate and use Docker local and remote networksDeploy multi-container applications that are HA and FTUse Jenkins to build and deploy Docker imagesWho this book is for This guide is for anyone who needs to make a quick decision about using Docker for their next project. It is for developers who want to get started using Docker right away.

The The macOS User Administration Guide Herta Nava.2021-04-26 Explore macOS tools and

architecture for executing support tasks and system administration, and prepare for the Apple Certified Support Professional (ACSP) certification exam

Key Features

Delve into macOS Big Sur, from installation to managing apps and optimizing your environment

Become an Apple Certified Support Professional (ACSP) with this comprehensive macOS support guide

The book is not intended to be a user guide, it covers concepts pertinent for a user acting as an administrator

Book Description

Apple is pushing the capabilities of its technologies to help users achieve high performance, including improvements in its OS running across all Mac systems, macOS, and new technologies such as M1 Silicon chips. This book walks you through macOS from a system administration and support point of view, exploring its latest features. The book starts by explaining macOS architecture, installation, and startup processes to enable you to get started with the OS. You'll learn how to manage users and discover techniques for user security and privacy. Moving on, you'll get to grips with the macOS file system and learn to manage disks, volumes, and partitions for effective file management. Most of the examples covered in this book are from an administrator's perspective; however, when relevant, a standard user's perspective is also presented. You'll find illustrations for Mac systems running macOS 11 (Big Sur), and when necessary, for macOS 10.15 (macOS Catalina). Finally, you'll explore advanced topics such as networking and using command-line tools for administration tasks. By the end of this macOS book, you'll be well-versed with macOS features, administration tasks, and best practices. You'll also be able to apply the concepts to increase your chances of success in obtaining Apple certifications such as Apple Certified Support Professional (ACSP). What you will learn

Understand the fundamentals of the macOS system and architecture

Configure key services and perform essential troubleshooting in your Mac system

Install, update, and configure your local macOS system and identify the stages of the startup process

Create

and manage a local user account and set up your customized macOS environmentManage your file systems, storage, and permissionsExplore practices and techniques to work with apps, networks, and security for your Mac systemDelve into administration tasks such as managing service resources and peripheralsWho this book is for If you are a Mac system administrator, support and help desk technician or engineer, or Mac power user looking to explore macOS architecture and tooling, then this book is for you. The book assumes beginner-level knowledge of the macOS environment and system administration.

Red Hat OpenShift V4.3 on IBM Power Systems Reference Guide Dino Quintero, Daniel Casali, Alain Fisher, Federico Fros, Miguel Gomez Gonzalez, Felix Gonzalez, Paulo Sergio Lemes Queiroz, Sudipto Pal, Bogdan Savu, Richard Wale, IBM Redbooks. 2020-09-10 This IBM® Redpaper publication describes how to deploy Red Hat OpenShift V4.3 on IBM Power Systems servers. This book presents reference architectures for deployment, initial sizing guidelines for server, storage, and IBM Cloud® Paks. Moreover, this publication delivers information about initial supported Power System configurations for Red Hat OpenShift V4.3 deployment (bare metal, IBM PowerVM® LE LPARs, and others). This book serves as a guide for how to deploy Red Hat OpenShift V4.3 and provide start guidelines and recommended practices for implementing it on Power Systems and completing it with the supported IBM Cloud Paks. The publication addresses topics for developers, IT architects, IT specialists, sellers, and anyone who wants to implement a Red Hat OpenShift V4.3 and IBM Cloud Paks on IBM Power Systems. This book also provides technical content to transfer how-to skills to the support teams, and solution guidance to the sales team. This book compliments the documentation that is available at IBM Knowledge Center, and also aligns with the educational offerings that are provided by the IBM Systems Technical Education (SSE).

Manjaro Linux User Guide Atanas Georgiev Rusev.2023-11-30 An easy-to-follow guide for newbies and intermediate users to learn Manjaro Linux for everyday tasks with practical examples Key Features Explore Manjaro, from installation to using all its available applications Learn how to easily protect your privacy online, manage your system, and handle backups Master key Linux concepts such as file systems, sharing, systemd, and journalctl Purchase of the print or Kindle book includes a free PDF eBook Book Description Manjaro Linux, renowned for its smooth installation, user-friendly interface, and robust security features, is an Arch-based fast Linux distro enhanced with multiple graphical environments, GUI modules, and a full application setup, resulting in a top Linux distribution. This book is your guide to unlocking its full potential. Starting with an overview of the different editions and detailed installation instructions, the initial section offers insights into the GUI modules and features of each official edition. You'll then explore the regular software, work with the Terminal, and cover topics such as package management, filesystems, automounts, storage, backups, and encryption. The subsequent chapters will help you get to grips with data sharing, security and networking, firewalls, VPNs, and SSH in depth. Finally, you'll become well-versed in service and user management, troubleshooting, scripting, automation, and kernel switching. The book's modular structure allows you to quickly navigate to the specific information you need, and by its end, you'll have gained an appreciation of what sets Manjaro Linux apart. What you will learn Gain insights into the full set of Manjaro capabilities Install Manjaro and easily customize it using a graphical user interface Explore all types of supported software, including office and gaming applications Learn basic and advanced Terminal usage with examples Understand package management, filesystems, network and the Internet Enhance your security with Firewall setup, VPN, SSH, and encryption Explore systemd management, journalctl, logs, and user management Get to

grips with scripting, automation, kernel basics, and switching Who this book is for While this book is primarily a reference guide for beginners and intermediate users who want to explore Linux via Manjaro's top-notch distribution, it's also a perfect guide for Linux enthusiasts and newbies in search of a stable and secure OS with plenty of flexibility. Whether you're a student, new to Linux, or looking to migrate from Windows/macOS, this book will help you navigate easily. Prior Linux experience will help but is not required to get started with this book.

CompTIA PenTest+ PT0-001 Cert Guide Omar Santos, Ron Taylor. 2018-11-15 This is the eBook version of the print title. Note that the eBook does not provide access to the practice test software that accompanies the print book. Learn, prepare, and practice for CompTIA Pentest+ PT0-001 exam success with this CompTIA Cert Guide from Pearson IT Certification, a leader in IT Certification. Master CompTIA Pentest+ PT0-001 exam topics Assess your knowledge with chapter-ending quizzes Review key concepts with exam preparation tasks Practice with realistic exam questions Get practical guidance for next steps and more advanced certifications CompTIA Pentest+ Cert Guide is a best-of-breed exam study guide. Leading IT security experts Omar Santos and Ron Taylor share preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. Material is presented in a concise manner, focusing on increasing your understanding and retention of exam topics. The book presents you with an organized test preparation routine through the use of proven series elements and techniques. Exam topic lists make referencing easy. Chapter-ending Exam Preparation Tasks help you drill on key concepts you must know thoroughly. Review questions help you assess your knowledge, and a final preparation chapter guides you through tools and resources to help you craft your final study plan. Well regarded for its level of detail, assessment features, and challenging review questions and

exercises, this study guide helps you master the concepts and techniques that will allow you to succeed on the exam the first time. The CompTIA study guide helps you master all the topics on the Pentest+ exam, including: Planning and scoping: Explain the importance of proper planning and scoping, understand key legal concepts, explore key aspects of compliance-based assessments Information gathering and vulnerability identification: Understand passive and active reconnaissance, conduct appropriate information gathering and use open source intelligence (OSINT); perform vulnerability scans; analyze results; explain how to leverage gathered information in exploitation; understand weaknesses of specialized systems Attacks and exploits: Compare and contrast social engineering attacks; exploit network-based, wireless, RF-based, application-based, and local host vulnerabilities; summarize physical security attacks; perform post-exploitation techniques Penetration testing tools: Use numerous tools to perform reconnaissance, exploit vulnerabilities and perform post-exploitation activities; leverage the Bash shell, Python, Ruby, and PowerShell for basic scripting Reporting and communication: Write reports containing effective findings and recommendations for mitigation; master best practices for reporting and communication; perform post-engagement activities such as cleanup of tools or shells

A Practical Guide to Continuous Delivery Eberhard Wolff.2017-02-24 Using Continuous Delivery, you can bring software into production more rapidly, with greater reliability. A Practical Guide to Continuous Delivery is a 100% practical guide to building Continuous Delivery pipelines that automate rollouts, improve reproducibility, and dramatically reduce risk. Eberhard Wolff introduces a proven Continuous Delivery technology stack, including Docker, Chef, Vagrant, Jenkins, Graphite, the ELK stack, JBehave, and Gatling. He guides you through applying these technologies throughout build, continuous integration, load testing, acceptance testing, and monitoring. Wolff's start-to-finish

example projects offer the basis for your own experimentation, pilot programs, and full-fledged deployments. A Practical Guide to Continuous Delivery is for everyone who wants to introduce Continuous Delivery, with or without DevOps. For managers, it introduces core processes, requirements, benefits, and technical consequences. Developers, administrators, and architects will gain essential skills for implementing and managing pipelines, and for integrating Continuous Delivery smoothly into software architectures and IT organizations. Understand the problems that Continuous Delivery solves, and how it solves them Establish an infrastructure for maximum software automation Leverage virtualization and Platform as a Service (PAAS) cloud solutions Implement build automation and continuous integration with Gradle, Maven, and Jenkins Perform static code reviews with SonarQube and repositories to store build artifacts Establish automated GUI and textual acceptance testing with behavior-driven design Ensure appropriate performance via capacity testing Check new features and problems with exploratory testing Minimize risk throughout automated production software rollouts Gather and analyze metrics and logs with Elasticsearch, Logstash, Kibana (ELK), and Graphite Manage the introduction of Continuous Delivery into your enterprise Architect software to facilitate Continuous Delivery of new capabilities

Learning Helm Matt Butcher, Matt Farina, Josh Dolitsky. 2021-01-20 Get up to speed with Helm, the preeminent package manager for the Kubernetes container orchestration system. This practical guide shows you how to efficiently create, install, and manage the applications running inside your containers. Helm maintainers Matt Butcher, Matt Farina, and Josh Dolitsky explain how this package manager fits into the Kubernetes ecosystem and provide an inside look at Helm's design and best practices. More than 70% of the organizations that work with Kubernetes use Helm today. While the Helm community provides thousands of packages, or charts, to help you get started, this book walks

developers and DevOps engineers through the process of creating custom charts to package applications. If you have a working understanding of Kubernetes, you're ready to go. Explore primary features including frequently used Helm commands Learn how to build and deploy Helm charts from scratch Use Helm to manage complexity and achieve repeatable deployments Package an application and its dependencies for easy installation Manage the entire lifecycle of applications on Kubernetes Explore ways to extend Helm to add features and functionality Learn features for testing, handling dependencies, and providing security

CoreOS Essentials Rimantas Mocevicius.2015-06-29 If you are a system administrator with experience in network virtualization and want to develop computing networks for deploying applications and servers, then this is the book for you. Knowledge of Linux operating systems and Docker is expected.

Installation, Upgrade, and Configuration of IBM Cognos Analytics Alan Bluck.2021-11-15 An end-to-end guide for IBM implementation partners and solution providers. **KEY FEATURES** ● Detailed step-by-step IBM Software installation and configuration that saves time for installing and configuring computers. ● Designed for students, IT consultants, systems and solution architects, data analysts, and developers. ● Unique solution documentation for running Cognos configuration designed for banks, financial services, and insurance companies. **DESCRIPTION** This book shows how to install IBM Cognos Analytics software and related systems on RedHat Enterprise Linux 8.0, IBM Cloud, IBM Cloud Private (Community Edition), and Windows 10. It includes step-by-step instructions for downloading and installing IBM Cognos Analytics. It also includes numerous examples of setups and updates to analyze the OLAP database utilized by the IBM Case Manager. The initial chapters discuss the installation of IBM Information Management Products. The reader

will know the URLs of the downloading sites, the product codes, descriptions, sizes, and the names of each software downloaded to the gzip tar file. It includes setting up RHEL 8.0 Linux OS and using the Docker system for installation on IBM Cloud PAK servers, RedHat Openshift clusters, and IBM Cloud Private. The IBM Cognos installation contains versions 11.1.1 through 11.4.0 on RedHat Linux 8.0 and Windows 10. The book includes the usage of the IBM Cognos Analytics 11.1 R4 Dynamic Cube Datastore and the 11.1 R4 Cube Designer for the report and dashboard. Additionally, the book includes constructing the essential Zlib library from the C language source download, its compilation, and linking. WHAT YOU WILL LEARN ● Detailed step-by-step instructions for installing IBM Cognos Analytics. ● Installation on Windows 10, RedHat Enterprise Linux 8.0, IBM Cloud, and IBM Cloud Private (CE). ● Downloading, compiling, and linking the necessary zlib library on Linux. ● Connecting to the CASTORE database using an example of Cognos Analytics configuration. ● Creating OLAP Cubes for IBM Case Manager dashboard reports. WHO THIS BOOK IS FOR This book is for IT consultants, architects for systems and solutions, data analysts, and data analytics solution developers. All the examples in the book are based on Unix/Windows and web-based tool basic knowledge. TABLE OF CONTENTS 1. Getting Started with IBM Resources for Cognos 2. IBM Cloud PAK Systems 3. RedHat OpenShift 4.x Installations 4. IBM Cloud Private Cluster systems 5. IBM Cognos Analytics 11. On RHEL 8.0 6. IBM Cognos Analytics 11. On Windows 10.0 7. IBM Cognos Analytics 11 on RHEL 8.0 Linux Fix for Zlib

Microsoft Azure Architect Technologies and Design Complete Study Guide Benjamin Perkins, William Panek. 2021-01-13 Become a proficient Microsoft Azure solutions architect Azure certifications are critical to the millions of IT professionals Microsoft has certified as MCSE and MCSA in Windows Server in the last 20 years. All of these professionals need to certify in key Azure

exams to stay current and advance in their careers. Exams AZ-303 and AZ-304 are the key solutions architect exams that experienced Windows professionals will find most useful at the intermediate and advanced points of their careers. Microsoft Azure Architect Technologies and Design Complete Study Guide Exams AZ-303 and AZ-304 covers the two critical Microsoft Azure exams that intermediate and advanced Microsoft IT professionals will need to show proficiency as their organizations move to the Azure cloud. Understand Azure Set up your Microsoft Cloud network Solve real-world problems Get the confidence to pass the exam By learning all of these things plus using the Study Guide review questions and practice exams, the reader will be ready to take the exam and perform the job with confidence.

MCSE Windows 2000 Server Study Guide (EXAM 70-215) Syngress Media, Inc.2000 Provides in-depth, element-rich, Microsoft-approved coverage of all technical exam objectives. The guide emphasizes extensive use of hands-on exercises, lots of illustrations and screenshots, and an exhaustive chapter review. The CD contains a single interface with links to all components and many other helpful study aids.

Datadog Cloud Monitoring Quick Start Guide Thomas Kurian Theakanath.2021-06-25 A comprehensive guide to rolling out Datadog to monitor infrastructure and applications running in both cloud and datacenter environments Key FeaturesLearn Datadog to proactively monitor your infrastructure and cloud servicesUse Datadog as a platform for aggregating monitoring efforts in your organizationLeverage Datadog's alerting service to implement on-call and site reliability engineering (SRE) processesBook Description Datadog is an essential cloud monitoring and operational analytics tool which enables the monitoring of servers, virtual machines, containers, databases, third-party tools, and application services. IT and DevOps teams can easily leverage

Datadog to monitor infrastructure and cloud services, and this book will show you how. The book starts by describing basic monitoring concepts and types of monitoring that are rolled out in a large-scale IT production engineering environment. Moving on, the book covers how standard monitoring features are implemented on the Datadog platform and how they can be rolled out in a real-world production environment. As you advance, you'll discover how Datadog is integrated with popular software components that are used to build cloud platforms. The book also provides details on how to use monitoring standards such as Java Management Extensions (JMX) and StatsD to extend the Datadog platform. Finally, you'll get to grips with monitoring fundamentals, learn how monitoring can be rolled out using Datadog proactively, and find out how to extend and customize the Datadog platform. By the end of this Datadog book, you will have gained the skills needed to monitor your cloud infrastructure and the software applications running on it using Datadog. What you will learn

Understand monitoring fundamentals, including metrics, monitors, alerts, and thresholds
Implement core monitoring requirements using Datadog features
Explore Datadog's integration with cloud platforms and tools
Extend Datadog using custom scripting and standards such as JMX and StatsD
Discover how proactive monitoring can be rolled out using various Datadog features
Understand how Datadog can be used to monitor microservices in both Docker and Kubernetes environments
Get to grips with advanced Datadog features such as APM and Security Monitoring

Who this book is for This book is for DevOps engineers, site reliability engineers (SREs), IT Production engineers, software developers and architects, cloud engineers, system administrators, and anyone looking to monitor and visualize their infrastructure and applications with Datadog. Basic working knowledge of cloud and infrastructure is useful. Working experience of Linux distribution and some scripting knowledge is required to fully take advantage of the material

provided in the book.

Learn OpenShift Denis Zuev, Artemii Kropachev, Aleksey Usov. 2018-07-30 Gain hands-on experience of installing OpenShift Origin 3.9 in a production configuration and managing applications using the platform you built Key Features Gain hands-on experience of working with Kubernetes and Docker Learn how to deploy and manage applications in OpenShift Get a practical approach to managing applications on a cloud-based platform Explore multi-site and HA architectures of OpenShift for production Book Description Docker containers transform application delivery technologies to make them faster and more reproducible, and to reduce the amount of time wasted on configuration. Managing Docker containers in the multi-node or multi-datacenter environment is a big challenge, which is why container management platforms are required. OpenShift is a new generation of container management platforms built on top of both Docker and Kubernetes. It brings additional functionality to the table, something that is lacking in Kubernetes. This new functionality significantly helps software development teams to bring software development processes to a whole new level. In this book, we'll start by explaining the container architecture, Docker, and CRI-O overviews. Then, we'll look at container orchestration and Kubernetes. We'll cover OpenShift installation, and its basic and advanced components. Moving on, we'll deep dive into concepts such as deploying application OpenShift. You'll learn how to set up an end-to-end delivery pipeline while working with applications in OpenShift as a developer or DevOps. Finally, you'll discover how to properly design OpenShift in production environments. This book gives you hands-on experience of designing, building, and operating OpenShift Origin 3.9, as well as building new applications or migrating existing applications to OpenShift. What you will learn Understand the core concepts behind containers and container orchestration tools Understand Docker, Kubernetes, and OpenShift,

and their relation to CRI-O Install and work with Kubernetes and OpenShift Understand how to work with persistent storage in OpenShift Understand basic and advanced components of OpenShift, including security and networking Manage deployment strategies and application's migration in OpenShift Understand and design OpenShift high availability Who this book is for The book is for system administrators, DevOps engineers, solutions architects, or any stakeholder who wants to understand the concept and business value of OpenShift.

The Complete Kubernetes Guide Jonathan Baier, Gigi Sayfan, Jesse White. 2019-05-20 Design, deploy, and manage large-scale containers using Kubernetes Key Features Gain insight into the latest features of Kubernetes, including Prometheus and API aggregation Discover ways to keep your clusters always available, scalable, and up-to-date Master the skills of designing and deploying large clusters on various cloud platforms Book Description If you are running a number of containers and want to be able to automate the way they're managed, it can be helpful to have Kubernetes at your disposal. This Learning Path guides you through core Kubernetes constructs, such as pods, services, replica sets, replication controllers, and labels. You'll get started by learning how to integrate your build pipeline and deployments in a Kubernetes cluster. As you cover more chapters in the Learning Path, you'll get up to speed with orchestrating updates behind the scenes, avoiding downtime on your cluster, and dealing with underlying cloud provider instability in your cluster. With the help of real-world use cases, you'll also explore options for network configuration, and understand how to set up, operate, and troubleshoot various Kubernetes networking plugins. In addition to this, you'll gain insights into custom resource development and utilization in automation and maintenance workflows. By the end of this Learning Path, you'll have the expertise you need to progress from an intermediate to an advanced level of understanding Kubernetes. This Learning Path includes content

from the following Packt products: Getting Started with Kubernetes - Third Edition by Jonathan Baier and Jesse White Mastering Kubernetes - Second Edition by Gigi Sayfan What you will learn Download, install, and configure the Kubernetes code base Create and configure custom Kubernetes resources Use third-party resources in your automation workflows Deliver applications as standard packages Set up and access monitoring and logging for Kubernetes clusters Set up external access to applications running in the cluster Manage and scale Kubernetes with hosted platforms on Amazon Web Services (AWS), Azure, and Google Cloud Platform (GCP) Run multiple clusters and manage them from a single control plane Who this book is for If you are a developer or a system administrator with an intermediate understanding of Kubernetes and want to master its advanced features, then this book is for you. Basic knowledge of networking is required to easily understand the concepts explained.

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

OpenShift for Developers Joshua Wood, Brian Tannous. 2021-09-01 Ready to build cloud native applications? Get a hands-on introduction to daily life as a developer crafting code on OpenShift, the open source container application platform from Red Hat. Creating and packaging your apps for deployment on modern distributed systems can be daunting. Too often, adding infrastructure value can complicate development. With this practical guide, you'll learn how to build, deploy, and manage a multitiered application on OpenShift. Authors Joshua Wood and Brian Tannous demonstrate how OpenShift speeds application development. With the Kubernetes container orchestrator at its core, OpenShift simplifies and automates the way you build, ship, and run code. You'll learn how to use OpenShift and the Quarkus Java framework to develop and deploy apps using proven enterprise technologies and practices that you can apply to code in any language. Learn the development cycles for building and deploying on OpenShift, and the tools that drive them Use OpenShift to build, deploy, and manage the ongoing lifecycle of an n-tier application Create a continuous integration and deployment pipeline to turn your source code changes into production rollouts Automate scaling decisions with metrics and trigger lifecycle events with webhooks

DevOps for VMware Administrators Trevor Roberts, Josh Atwell, Egle Sigler, Yvo van Doorn. 2015 DevOps represents a powerful new approach to delivering IT services, where software developers and IT operations teams work closely together to deploy projects far more often and more reliably. As pioneers like Google, Amazon, and Netflix have discovered, DevOps can improve efficiency, accelerate delivery, and reduce costs. However, most discussions of DevOps focus on theory rather

than implementation, and DevOps raises unique issues in virtualized environments. DevOps for VMware Administrators addresses these issues, offering realistic insights both for implementing DevOps and for applying new tools to maximize its value. The authors also offer extensive hands-on practice with solving realistic problems and improving IT efficiency by utilizing these four tools: Puppet IT automation software for managing infrastructure across its lifecycle, including provisioning, configuration, orchestration, and reporting Chef configuration management tool for writing system configuration recipes that streamline server configuration and maintenance and can integrate with cloud-based platforms such as Rackspace and Amazon EC2 to automate provisioning Ansible, the flexible open source toolkit for automating configuration management and orchestration in Unix and Unix-style environments Windows PowerShell for automating tasks and configuration management in Windows environments

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 Features Understand how to make a deployment workflow run smoothly with Docker containers Learn Docker and DevOps concepts such as continuous integration and continuous deployment (CI/CD) Gain insights into using various Docker tools and libraries Book 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 learn

Get up to speed with creating containers and understand how they work
Package and deploy your containers to a variety of platforms
Work with containers in the cloud and on the Kubernetes platform
Deploy and then monitor the health and logs of running containers
Explore best practices for working with containers from a security perspective
Become familiar with scanning containers and using third-party security tools and libraries

Who 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.

Machine Learning for Beginners Frederick Benson. 2023-05-09 You interact with Artificial Intelligence every day, and you may not even realize it In this book, you will explore the history and development of Machine Learning and how it has revolutionized the world we live in today. Starting from the early days of simple algorithms that learned how to play checkers, to the complex models

that can now drive cars and analyze massive amounts of data in real-time. Through easy-to-understand examples and real-world applications, you will gain a deeper understanding of the math and probability behind Machine Learning. You'll discover how the massive collection of data is essential to the development of learning algorithms, and how it is used to make decisions that affect our lives every day. Explore the relationship between Machine Learning, Artificial Intelligence, and Neural Networks, and how they work together to create intelligent machines capable of reacting to the world around them. You'll also learn about the challenges facing Machine Learning today and the ethical dilemmas that arise when AI is left unchecked. This book is for anyone who wants to understand the inner workings of Machine Learning, its real-world applications, and the potential of Artificial Intelligence in our lives. Whether you're a student, a researcher, or just someone who's interested in the future of technology, this book is a must-read.

Learning CoreOS Kingston Smiler. S, Shantanu Agrawal. 2016-03-22 Your one-stop guide for building, configuring, maintaining, and deploying one of the world's fastest growing OSes About This Book Understand the features of CoreOS and learn to administrate and secure a CoreOS environment Develop, test, and deploy cloud services and applications more quickly and efficiently inside lightweight containers using CoreOS This is a complete tutorial on CoreOS, which is the preferred OS for cloud computing as it contains components that facilitate cloud management Who This Book Is For This book is for cloud or enterprise administrators and application developers who would like to gain knowledge about CoreOS to deploy a cloud application or micro-services on a cluster of cloud servers. It is also aimed at administrators with basic networking experience. You do not need to have any knowledge of CoreOS. What You Will Learn Understand the benefits of CoreOS as a cloud orchestration platform Learn about lightweight containers and various container

frameworks such as Docker and RKT in CoreOS Manage services and containers across cluster using Fleet and systemd Set up a CoreOS environment using Vagrant Create and manage CoreOS clusters Discover the service parameters using etcd Find out about chaining services running on the cluster using Flannel / Rudder and Weave Create a virtual tenant network and service chaining using OVS In Detail CoreOS is an open source operating system developed upon the Linux kernel. The rise of CoreOS is directly related to the rise of Docker (a Linux container management system). It is a minimal operating system layer and takes a different approach to automating the deployment of containers. The major difference between CoreOS and other Linux distributions is that CoreOS was designed to deploy hundreds of servers. CoreOS immensely helps the users to create systems, which are easy to scale and manage, making life easier for all, be it developer, QA, or deployer. This book is all about setting up, deploying, and using CoreOS to manage clusters and clouds. It will help you understand what CoreOS is and its benefits as a cloud orchestration platform. First, we'll show you how to set up a simple CoreOS instance with single node in the cluster and how to run a Docker container inside the CoreOS instance. Next, you'll be introduced to Fleet and systemd, and will deploy and distribute Docker services across different nodes in cluster using Fleet. Later, you'll be briefed about running services in a cluster with constraints, publishing the services already running on the cluster to new services, and making your services interact with each other. We conclude by teaching you about advanced container networking. By the end of the book, you will know the salient features of CoreOS and will be able to deploy, administrate, and secure a CoreOS environment. Style and approach This practical guide covers the basics and advanced topics related to CoreOS and lightweight containers. The topics are covered in an easy-to-follow manner with each feature explained in detail, beginning with a brief overview and followed by an explanation of its

corresponding configuration files.

Amazon Fargate Quick Start Guide Deepak Vohra.2018-07-24 This book gets you started and gives you knowledge about AWS Fargate in order to successfully incorporate it in your ECS container application. Key Features Gives you a quick walk-through over the Amazon Elastic Container Services (ECS) Provides an in depth knowledge of the components that Amazon Fargate has to offer. Learn the practical aspects of Docker application development with a managed service Book Description Amazon Fargate is new launch type for the Amazon Elastic Container Service (ECS). ECS is an AWS service for Docker container orchestration. Docker is the de facto containerization framework and has revolutionized packaging and deployment of software. The introduction of Fargate has made the ECS platform serverless. The book takes you through how Amazon Fargate runs ECS services composed of tasks and Docker containers and exposes the containers to the user. Fargate has simplified the ECS platform. We will learn how Fargate creates an Elastic Network Interface (ENI) for each task and how auto scaling can be enabled for ECS tasks. You will also learn about using an IAM policy to download Docker images and send logs to CloudWatch. Finally, by the end of this book, you will have learned about how to use ECS CLI to create an ECS cluster and deploy tasks with Docker Compose. What you will learn Running Docker containers with a managed service Use Amazon ECS in Fargate launch mode Configure CloudWatch Logging with Fargate Use an IAM Role with Fargate Understand how ECS CLI is used with Fargate Learn how to use an Application Load Balancer with Fargate Learn about Auto Scaling with Fargate Who this book is for This book is for Docker users and developers who want to learn about the Fargate platform. Typical job roles for which the book is suitable are DevOps Architect, Docker Engineer, and AWS Cloud Engineer. Prior knowledge of AWS and ECS is helpful but not mandatory.

Deploying Secure Containers for Training and Development Jon Schipp, Henry Dalziel. 2015-12-10 In the book we will be talking about Deploying Secure Containers for Training and Development. The book covers the technology behind Linux-based containers and what they can be used for. Details on how to use containers in training and development are also provided. Provides information on using secure containers for training and development.

Docker in Practice, Second Edition Ian Miell, Aidan Sayers. 2019-02-06 Summary Docker in Practice, Second Edition presents over 100 practical techniques, hand-picked to help you get the most out of Docker. Following a Problem/Solution/Discussion format, you'll walk through specific examples that you can use immediately, and you'll get expert guidance on techniques that you can apply to a whole range of scenarios. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Docker's simple idea-wrapping an application and its dependencies into a single deployable container-created a buzz in the software industry. Now, containers are essential to enterprise infrastructure, and Docker is the undisputed industry standard. So what do you do after you've mastered the basics? To really streamline your applications and transform your dev process, you need relevant examples and experts who can walk you through them. You need this book. About the Book Docker in Practice, Second Edition teaches you rock-solid, tested Docker techniques, such as replacing VMs, enabling microservices architecture, efficient network modeling, offline productivity, and establishing a container-driven continuous delivery process. Following a cookbook-style problem/solution format, you'll explore real-world use cases and learn how to apply the lessons to your own dev projects. What's inside Continuous integration and delivery The Kubernetes orchestration tool Streamlining your cloud workflow Docker in swarm mode Emerging best practices and techniques About the Reader Written

for developers and engineers using Docker in production. About the Author Ian Miell and Aidan Hobson Sayers are seasoned infrastructure architects working in the UK. Together, they used Docker to transform DevOps at one of the UK's largest gaming companies. Table of Contents PART 1 - DOCKER FUNDAMENTALS Discovering Docker Understanding Docker: Inside the engine room PART 2 - DOCKER AND DEVELOPMENT Using Docker as a lightweight virtual machine Building images Running containers Day-to-day Docker Configuration management: Getting your house in order PART 3 - DOCKER AND DEVOPS Continuous integration: Speeding up your development pipeline Continuous delivery: A perfect fit for Docker principles Network simulation: Realistic environment testing without the pain PART 4 - ORCHESTRATION FROM A SINGLE MACHINE TO THE CLOUD A primer on container orchestration The data center as an OS with Docker Docker platforms PART 5 - DOCKER IN PRODUCTION Docker and security Plain sailing: Running Docker in production Docker in production: Dealing with challenges

OpenShift for Developers Grant Shipley, Graham Dumpleton. 2016-08-04 Keen to build web applications for the cloud? Get a quick hands-on introduction to OpenShift, the open source Platform as a Service (PaaS) offering from Red Hat. With this practical guide, you'll learn the steps necessary to build, deploy, and host a complete real-world application on OpenShift without having to slog through long, detailed explanations of the technologies involved. OpenShift enables you to use Docker application containers and the Kubernetes cluster manager to automate the way you create, ship, and run applications. Through the course of the book, you'll learn how to use OpenShift and the Wildfly application server to build and then immediately deploy a Java application online. Learn about OpenShift's core technology, including Docker-based containers and Kubernetes Use a virtual machine with OpenShift installed and configured on your local environment Create and deploy your

first application on the OpenShift platform Add language runtime dependencies and connect to a database Trigger an automatic rebuild and redeployment when you push changes to the repository Get a working environment up in minutes with application templates Use commands to check and debug your application Create and build Docker-based images for your application

Installation and Configuration of IBM FileNet Information Management Software Alan

Bluck.2023-07-26 The definitive guide to installing and configuring IBM FileNet Information Management software KEY FEATURES ● Get guidance on installation and configuration, including troubleshooting. ● Prepare thoroughly for installation to ensure a smooth and successful deployment. ● Install or upgrade Case Manager, Content Search, Case Analyzer, Monitor Dashboard, and WebSphere. DESCRIPTION Whether you're a beginner or an experienced administrator, this book will help you master the installation and configuration of IBM FileNet Information Management software. This book provides detailed instructions and practical techniques for preparing, configuring, and deploying IBM software products. From IBM BAW 18.0 and IBM Security Directory Suite 8.x to IBM Content Search Services 5.5.x and Oracle 12C, this book covers the essential prerequisites and installation processes for each system platform. You'll also learn about setting up supporting systems like IBM Case Manager and IBM Workflow Center and integrating components like WebSphere, IBM Content Navigator, and Case Monitor Dashboard. By the end of the book, you will have acquired the necessary knowledge and skills to effectively prepare, configure, and deploy different IBM software products. WHAT YOU WILL LEARN ● Learn how to access the comprehensive list of IBM Resources and Technical References. ● Understand the procedures for IBM Installation downloads and using the Software Compatibility Matrix. ● Get familiar with the tools available for system monitoring, such as the IBM Scout tool for System

Sizing. ● Download, prepare, and successfully install IBM Fix Packs, IBM Cloud systems, and RedHat OpenShift. ● Know how to install and set up IBM Directory Services Security for Users and Groups. WHO THIS BOOK IS FOR This book is for IT consultants, systems and solution architects, and data analysts and developers who need to document proposals for the sizing and requirements of IBM software products for banks and insurance companies. It also provides guidance on document management, workflow, and case management solutions. TABLE OF CONTENTS 1. Introduction 2. Installation Preparation 3. System Sizing 4. Installation Downloads 5. Operating System and Platforms 6. Security and Users 7. IBM BAW 21.0.3 Upgrade Installation from BAW 18.6.1.19002 8. Cloud Based Systems 9. IBM Security Directory Server for IBM Content Foundation 10. Installing IBM WebSphere 9.0.5.14 11. Problem Resolution Procedures and Installing DB2 11.5.7 12. Installing IBM Content Foundation 5.5.10 13. Installing Content Navigator 3.0.13 and Case Manager 5.3.3 14. Importing the Case Manager Solution 15. Configuring the Case Manager Solution 16. Installing and Configuring IBM Content Search Services 5.5.10 17. Installing and Configuring IBM Case Analyzer 5.5 and IBM Case Monitor Dashboard 5.3.3

Mastering Linux Administration Alexandru Calcatinge, Julian Balog. 2021-06-18 Develop advanced skills for working with Linux systems on-premises and in the cloud Key Features Become proficient in everyday Linux administration tasks by mastering the Linux command line and using automation Work with the Linux filesystem, packages, users, processes, and daemons Deploy Linux to the cloud with AWS, Azure, and Kubernetes Book Description Linux plays a significant role in modern data center management and provides great versatility in deploying and managing your workloads on-premises and in the cloud. This book covers the important topics you need to know about for your everyday Linux administration tasks. The book starts by helping you understand the Linux command

line and how to work with files, packages, and filesystems. You'll then begin administering network services and hardening security, and learn about cloud computing, containers, and orchestration. Once you've learned how to work with the command line, you'll explore the essential Linux commands for managing users, processes, and daemons and discover how to secure your Linux environment using application security frameworks and firewall managers. As you advance through the chapters, you'll work with containers, hypervisors, virtual machines, Ansible, and Kubernetes. You'll also learn how to deploy Linux to the cloud using AWS and Azure. By the end of this Linux book, you'll be well-versed with Linux and have mastered everyday administrative tasks using workflows spanning from on-premises to the cloud. If you also find yourself adopting DevOps practices in the process, we'll consider our mission accomplished. What you will learn

Understand how Linux works and learn basic to advanced Linux administration skills

Explore the most widely used commands for managing the Linux filesystem, network, security, and more

Get to grips with different networking and messaging protocols

Find out how Linux security works and how to configure SELinux, AppArmor, and Linux iptables

Work with virtual machines and containers and understand container orchestration with Kubernetes

Work with containerized workflows using Docker and Kubernetes

Automate your configuration management workloads with Ansible

Who this book is for

If you are a Linux administrator who wants to understand the fundamentals and as well as modern concepts of Linux system administration, this book is for you.

Windows System Administrators looking to extend their knowledge to the Linux OS will also benefit from this book.

Industry 4.1 Fan-Tien Cheng.2021-10-26 Industry 4.1 Intelligent Manufacturing with Zero Defects

Discover the future of manufacturing with this comprehensive introduction to Industry 4.0 technologies from a celebrated expert in the field

Industry 4.1: Intelligent Manufacturing with Zero

Defects delivers an in-depth exploration of the functions of intelligent manufacturing and its applications and implementations through the Intelligent Factory Automation (iFA) System Platform. The book's distinguished editor offers readers a broad range of resources that educate and enlighten on topics as diverse as the Internet of Things, edge computing, cloud computing, and cyber-physical systems. You'll learn about three different advanced prediction technologies: Automatic Virtual Metrology (AVM), Intelligent Yield Management (IYM), and Intelligent Predictive Maintenance (IPM). Different use cases in a variety of manufacturing industries are covered, including both high-tech and traditional areas. In addition to providing a broad view of intelligent manufacturing and covering fundamental technologies like sensors, communication standards, and container technologies, the book offers access to experimental data through the IEEE DataPort. Finally, it shows readers how to build an intelligent manufacturing platform called an Advanced Manufacturing Cloud of Things (AMCoT). Readers will also learn from: An introduction to the evolution of automation and development strategy of intelligent manufacturing A comprehensive discussion of foundational concepts in sensors, communication standards, and container technologies An exploration of the applications of the Internet of Things, edge computing, and cloud computing The Intelligent Factory Automation (iFA) System Platform and its applications and implementations A variety of use cases of intelligent manufacturing, from industries like flat-panel, semiconductor, solar cell, automotive, aerospace, chemical, and blow molding machine Perfect for researchers, engineers, scientists, professionals, and students who are interested in the ongoing evolution of Industry 4.0 and beyond, Industry 4.1: Intelligent Manufacturing with Zero Defects will also win a place in the library of laypersons interested in intelligent manufacturing applications and concepts. Completely unique, this book shows readers how Industry 4.0 technologies can be applied

to achieve the goal of Zero Defects for all product

DevOps Tools for Java Developers Stephen Chin, Melissa McKay, Ixchel Ruiz, Baruch Sadogursky. 2022-04-15 With the rise of DevOps, low-cost cloud computing, and container technologies, the way Java developers approach development today has changed dramatically. This practical guide helps you take advantage of microservices, serverless, and cloud native technologies using the latest DevOps techniques to simplify your build process and create hyperproductive teams. Stephen Chin, Melissa McKay, Ixchel Ruiz, and Baruch Sadogursky from JFrog help you evaluate an array of options. The list includes source control with Git, build declaration with Maven and Gradle, CI/CD with CircleCI, package management with Artifactory, containerization with Docker and Kubernetes, and much more. Whether you're building applications with Jakarta EE, Spring Boot, Dropwizard, MicroProfile, Micronaut, or Quarkus, this comprehensive guide has you covered. Explore software lifecycle best practices Use DevSecOps methodologies to facilitate software development and delivery Understand the business value of DevSecOps best practices Manage and secure software dependencies Develop and deploy applications using containers and cloud native technologies Manage and administrate source control repositories and development processes Use automation to set up and administer build pipelines Identify common deployment patterns and antipatterns Maintain and monitor software after deployment

Installation and Configuration of IBM Watson Analytics and StoredIQ Alan Bluck. 2021-04-30 Guidance for successful installation of a wide range of IBM software products — KEY FEATURES — Complete installation guide of IBM software systems, Redhat Enterprise, IBM Cloud, and Docker. — Expert-led demonstration on complete configuration and implementation of IBM software solutions. — Includes best practices and efficient techniques adopted by banks, financial services, and

insurance companies. DESCRIPTION This book provides instructions for installation, configuration and troubleshooting sections to improve the IT support productivity and fast resolution of issues that arise. It covers readers' references that are available online and also step-by-step procedures required for a successful installation of a broad range of IBM Data Analytics products. This book provides a holistic in-depth knowledge for students, software architects, installation specialists, and developers of Data Analysis software and a handbook for data analysts who want a single source of information on IBM Data Analysis Software products. This book provides a single resource that covers the latest available IBM Data Analysis software on the most recent RedHat Linux and IBM Cloud platforms. This book includes comprehensive technical guidance, enabling IT professionals to gain an in-depth knowledge of the installation of a broad range of IBM Software products across different operating systems. WHAT YOU WILL LEARN _ Step-by-step installation and configuration of IBM Watson Analytics. _ Managing RedHat Enterprise Systems and IBM Cloud Platforms. _ Installing, configuring, and managing IBM StoredIQ. _ Best practices to administer and maintain IBM software packages. _ Upgrading VMware stations and installing Docker. WHO THIS BOOK IS FOR This book is a go-to guide for IT professionals who are primarily Solution Architects, Implementation Experts, or Technology Consultants of IBM Software suites. This will also be a useful guide for IT managers who are looking to adopt and enable their enterprise with IBM products. TABLE OF CONTENTS 1. Getting Started with IBM Resources for Analytics 2. IBM Component Software Compatibility Matrix 3. IBM Download Procedures 4. On-Premise Server Configurations and Prerequisites 5. IBM Fix Packs 6. IBM Cloud PAK Systems 7. RedHat OpenShift 4.x Installations 8. IBM Cloud Private System 9. Base VMWare System Platform 10. IBM Cloud Private Cluster on CentOS 8.0 11. UIMA Pipeline and Java Code Extensions 12. IBM Watson

Explorer Foundational Components V12 13. IBM Watson Explorer oneWEX 12.0.3 14. IBM StoredIQ for Legal APPENDIX References and End of Life Support

CoreOS in Action Matt Bailey.2017-05-11 Summary CoreOS in Action is a clear tutorial for deploying container-based systems on CoreOS Container Linux. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Traditional Linux server distributions include every component required for anything you might be hosting, most of which you don't need if you've containerized your apps and services. CoreOS Container Linux is a bare-bones distro with only the essential bits needed to run containers like Docker. Container Linux is a fast, secure base layer for any container-centric distributed application, including microservices. And say goodbye to patch scheduling; when Container Linux needs an update, you just hot-swap the whole OS. About the Book CoreOS in Action is a clear tutorial for deploying container-based systems on CoreOS Container Linux. Inside, you'll follow along with examples that teach you to set up CoreOS on both private and cloud systems, and to practice common sense monitoring and upgrade techniques with real code. You'll also explore important container-aware application designs, including microservices, web, and Big Data examples with real-world use cases to put your learning into perspective. Summary Handling scaling and failures gracefully Container-driven application designs Cloud, on-premises, and hybrid deployment Smart logging and backup practices About the Reader Written for readers familiar with Linux and the basics of Docker. About the Author Matt Bailey is currently a technical lead at ZeniMax. He has worked in higher education and with scientific computing, medical, and networking technology companies, as well as a few startups. You can find him online via <https://mdb.io>. Table of Contents PART 1 - GETTING TO KNOW COREOS Introduction to the CoreOS family Getting started on your

workstation Expecting failure: fault tolerance in CoreOS PART 2 - APPLICATION ARCHITECTURE
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Data stack PART 3 - COREOS IN PRODUCTION CoreOS on AWS Bringing it together: deployment
System administration

Digital Libraries: Knowledge, Information, and Data in an Open Access Society Atsuyuki
Morishima, Andreas Rauber, Chern Li Liew. 2016-11-24 This book constitutes the refereed
proceedings of the 18th International Conference on Asia-Pacific Digital Libraries, ICADL 2016, held
in Tsukuba, Japan, in December 2016. The 18 full papers, 17 work-in-progress papers and 7
practitioner papers presented were carefully reviewed and selected from 71 submissions. The
papers cover topics such as community informatics, digital heritage preservation, digital curation,
models and guidelines, information retrieval/integration/extraction/recommendation, privacy,
education and digital literacy, open access and data, and information access design.

Docker Orchestration Randall Smith. 2017-01-24 A concise, fast-paced guide to orchestrating and
deploying scalable services with Docker About This Book Explore the new features added to the core
Docker Engine to make multi-container orchestration easy Leverage tools such as Docker Machine,
Swarm, Compose, and third-party tools such as Kubernetes, Mesosphere, and CoreOS to orchestrate
containers Use Docker Compose with Swarm and apply rolling updates for zero downtime
deployments Who This Book Is For This book is aimed at Sysadmins and DevOps engineers who
know what Docker does and are now looking to manage multiple containers on multiple hosts using
the orchestration feature. What You Will Learn Build scalable, reliable services with Docker See how
to manage a service in Docker using Docker Swarm, Kubernetes, and Mesosphere Discover simpler
orchestration tools such as CoreOS/Fleet and Rancher Cattle Understand cluster-wide logging,

system monitoring, and troubleshooting Build, test, and deploy containers using Continuous Integration Deploy cluster hosts on cloud services and automate your infrastructure In Detail Docker orchestration is what you need when transitioning from deploying containers individually on a single host to deploying complex multi-container apps on many machines. This book covers the new orchestration features of Docker 1.12 and helps you efficiently build, test, and deploy your application using Docker. You will be shown how to build multi-container applications using Docker Compose. You will also be introduced to the building blocks for multi-host Docker clusters such as registry, overlay networks, and shared storage using practical examples. This book gives an overview of core tools such as Docker Machine, Swarm, and Compose which will enhance your orchestration skills. You'll learn how to set up a swarm using the decentralized building block. Next, you'll be shown how to make the most out of the in-built orchestration feature of Docker engine and you'll use third-party tools such as Kubernetes, Mesosphere, and CoreOS to orchestrate your existing process. Finally, you will learn to deploy cluster hosts on cloud services and automate your infrastructure. Style and approach This comprehensive guide will take you through the orchestration feature of Docker. Using practical examples, you will discover various tools that can be used to manage multiple containers with ease.

C++ for Beginners Tom Clark.2021-04-21 UPDATE CHAPTERS 8 - 9 55 % discount for bookstores ! Now At \$24.99 instead of \$ 38.73 \$ Your customers will never stop reading this guide !!! Do you need a capable and dedicated programming language that can cope with your requirements? The Ultimate Beginners Guide to Learn C++ Programming Step-by-Step, you have clear and concise information that will provide advantages such as: - How to set up a C++ development environment - The principles of programming that will get you started - Power of C++: operations, switches, loops

and decision making - Getting started: syntax, data types, and variables - How to create custom functions in C++ - The best practices for coding Buy it Now and let your customers get addicted to this amazing book

Fedora Linux Learn Install, manage and protect your environments with Fedora Linux .2024-02-03
Preface Welcome to the world of Fedora Linux! This e-book, titled *Fedora Linux: Learn, Install, Manage, and Protect Your Environments with Fedora Linux*, is a comprehensive and practical journey designed to empower you to explore, deploy, and effectively secure your environments with Fedora Linux. Fedora is more than just an operating system; it is a vibrant community and a robust platform that embraces innovation, freedom, and collaboration. Throughout this e-book, we will dive into the various facets of Fedora Linux, starting with the installation and configuring of your operating system to meet your specific needs. The first section covers the installation of Fedora Linux, guiding you through each step of the process. Whether you are a curious beginner or an experienced user, this e-book provides detailed and practical information to ensure a successful installation tailored to your preferences. In the second segment, we will explore essential tools and techniques for efficiently managing your Fedora environment. From system administration to package management and advanced configurations, you will gain solid knowledge to optimize and customize your operating system according to your specific requirements. The third and crucial section of this e-book focuses on security strategies to safeguard your Fedora Linux environments. By addressing topics such as firewalls, encryption, authentication, and threat detection, you will learn how to fortify your installations and maintain a secure and resilient environment. Finally, this e-book not only provides technical insights but also aims to inspire a deeper understanding of the philosophy and community behind Fedora Linux. By grasping open-source culture and actively

participating in the community, you will become not just a user but a valuable contributor to this dynamic ecosystem. Ready to embark on this journey? Let's delve into the exciting universe of Fedora Linux and empower you to make the most of this powerful open-source platform. Enjoy the read and embrace your journey with Fedora Linux!

Learning MonoTouch Michael Bluestein.2011-07-19 Develop State-of-the-Art iPhone/iPad Apps with MonoTouch and .NET! Are you an experienced C#/.NET developer who wants to reach the huge iPhone/iPad market? Now, you can create great iOS apps without first mastering Objective-C and Apple's development toolset. With MonoTouch, you can leverage the skills you already have to create powerful apps that can be sold in Apple's App Store or deployed throughout your organization. In Learning MonoTouch, Michael Bluestein helps you get started with MonoTouch fast and make the most of its remarkably robust capabilities. The book first walks you through setting up your MonoTouch development environment, explaining how MonoTouch abstracts the iOS SDK to permit development against native iOS classes from C#. Through simple examples, you'll start building working apps, establishing a firm foundation for more advanced coding. One step at a time, you'll master increasingly sophisticated cases through practical examples. Bluestein even shows you how to leverage powerful .NET tools in your iOS apps, including LINQ. Coverage includes • Applying common iOS development patterns and techniques in C# • Using MonoTouch to handle memory management and garbage collection • Structuring MonoTouch apps for the MVC design pattern • Making the most of iOS user interface classes • Leveraging the address book, camera access, email, and iOS media features • Customizing tables and navigation for richer experiences and better performance • Accessing the iOS Core Graphics and Core Animation subsystems • Building iOS location-based applications with Core Location and MapKit • Consuming web services from

MonoTouch • Integrating iOS and .NET networking capabilities • Saving data with the ADO.NET provider to SQLite, .NET serialization, and NSUserDefaults All code samples are available for download at github.com/mikebluestein.

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.

Reader's Guide to Judaism Michael Terry.2013-12-02 The Reader's Guide to Judaism is a survey of English-language translations of the most important primary texts in the Jewish tradition. The field is assessed in some 470 essays discussing individuals (Martin Buber, Gluckel of Hameln), literature (Genesis, Ladino Literature), thought and beliefs (Holiness, Bioethics), practice (Dietary Laws,

Passover), history (Venice, Baghdadi Jews of India), and arts and material culture (Synagogue Architecture, Costume). The emphasis is on Judaism, rather than on Jewish studies more broadly.

The book delves into Learning Coreos Guide For Beginners English Editi. Learning Coreos Guide For Beginners English Editi is a vital topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Learning Coreos Guide For Beginners English Editi, encompassing both the fundamentals and more intricate discussions. This book is structured into several chapters, namely: Chapter 1: Introduction to Learning Coreos Guide For Beginners English Editi Chapter 2: Essential Elements of Learning Coreos Guide For Beginners English Editi Chapter 3: Learning Coreos Guide For Beginners English Editi in Everyday Life Chapter 4: Learning Coreos Guide For Beginners English Editi in Specific Contexts Chapter 5: Conclusion In chapter 1, the author will provide an overview of Learning Coreos Guide For Beginners English Editi. The first chapter will explore what Learning Coreos Guide For Beginners English Editi is, why Learning Coreos Guide For Beginners English Editi is vital, and how to effectively learn about Learning Coreos Guide For Beginners English Editi. In chapter 2, this book will delve into the foundational concepts of Learning Coreos Guide For Beginners English Editi. This chapter will elucidate the essential principles that must be understood to grasp Learning Coreos Guide For Beginners English Editi in its entirety. In chapter 3, the author will examine the practical applications of Learning Coreos Guide For Beginners English Editi in daily life. This chapter will showcase real-world examples of how Learning Coreos Guide For Beginners English Editi can be effectively utilized in everyday scenarios. In chapter 4, the author will scrutinize the relevance of

Learning Coreos Guide For Beginners English Editi in specific contexts. The fourth chapter will explore how Learning Coreos Guide For Beginners English Editi is applied in specialized fields, such as education, business, and technology. In chapter 5, the author will draw a conclusion about Learning Coreos Guide For Beginners English Editi. The final chapter will summarize the key points that have been discussed throughout the book. This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Learning Coreos Guide For Beginners English Editi.

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