

THE JOURNAL OF THE IEEE COMPUTER SOCIETY

Docker Containers

Build and Deploy with Kubernetes,
Fluentd, Prometheus, and Grafana

Christopher Negus



Book And Docker Containers Content Update Program

**Boris Scholl,Trent Swanson,Daniel
Fernandez**



Book And Docker Containers Content Update Program:

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 [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 Description The 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.

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. 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, and 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

Fundamentals of DevOps and Software Delivery Yevgeniy Brikman, 2025-05-20 This book is a guide to DevOps and software delivery that is a guide to the numerous tools and techniques that are required to take that application code and run it and maintain it in production where it can generate value for your users and your company on an ongoing basis This includes going through all the modern practices for deploying applications and microservices to the cloud managing your infrastructure as code automating your software delivery lifecycle in a CI/CD pipeline configuring networking setting up data stores and hooking up monitoring

Machine Learning Infrastructure and Best Practices for Software Engineers Mirosław Staron, 2024-01-31 Efficiently transform your initial designs into big systems by learning the foundations of infrastructure algorithms and ethical considerations for modern software products Key Features Learn how to scale up your machine learning software to a professional level Secure the quality of your machine learning pipeline at runtime Apply your knowledge to natural languages programming languages and images Book Description Although creating a machine learning pipeline or developing a working prototype of a software system from that pipeline is easy and straightforward nowadays the journey toward a professional software system is still extensive This book will help you get to grips with various best practices and recipes that will help software engineers transform prototype pipelines into complete software products The book begins by introducing the main concepts of professional software systems that leverage machine learning at their core As you progress you'll explore the differences between traditional non-ML software and machine learning software The initial best practices will guide you in determining the type of software you need for your product Subsequently you will delve into algorithms covering their selection development and testing before exploring the intricacies of the infrastructure for machine learning systems by defining best practices for identifying the right data source and ensuring its quality Towards the end you'll address the most challenging aspect of large scale machine learning systems ethics By exploring and defining best practices for assessing ethical risks and strategies for mitigation you will conclude the book

where it all began large scale machine learning software What you will learn Identify what the machine learning software best suits your needs Work with scalable machine learning pipelines Scale up pipelines from prototypes to fully fledged software Choose suitable data sources and processing methods for your product Differentiate raw data from complex processing noting their advantages Track and mitigate important ethical risks in machine learning software Work with testing and validation for machine learning systems Who this book is for If you re a machine learning engineer this book will help you design more robust software and understand which scaling up challenges you need to address and why Software engineers will benefit from best practices that will make your products robust reliable and innovative Decision makers will also find lots of useful information in this book including guidance on what to look for in a well designed machine learning software product

Mastering Docker Containers: From Development to Deployment Peter Jones,2025-01-11 Unlock the full potential of Elasticsearch with our definitive guide Advanced Mastery of Elasticsearch Innovative Search Solutions Explored This comprehensive book is crafted for professionals aspiring to enhance their skills in developing robust scalable search and analytics solutions Whether you re a software developer data analyst system administrator or IT professional this resource covers everything from setup configuration and cluster management to advanced querying data indexing and security Delve deep into the core concepts of Elasticsearch architecture uncover the intricacies of Query DSL and master text analysis with analyzers tokenizers and filters Discover best practices for managing large datasets optimizing performance and ensuring your deployments are secure and efficient Each chapter is meticulously organized to build on your knowledge offering detailed insights and practical examples to address real world challenges Advanced Mastery of Elasticsearch Innovative Search Solutions Explored is more than a book it s an indispensable resource guiding you through the creation of cutting edge search and analytics implementations Elevate your Elasticsearch expertise and revolutionize how you handle data in your organization

Cloud Native Python Manish Sethi,2017-07-21 Build cloud native applications in Python About This Book This is the only reliable resource that showcases the tools and techniques you need build robust and resilient cloud native applications in Python Learn how to architect your application on both the AWS and Azure clouds for high availability Assess monitor and troubleshoot your applications in the cloud Who This Book Is For This book is ideal for developers with a basic knowledge of Python who want to learn to build test and scale their Python based applications No prior experience of writing microservices in Python is required What You Will Learn Get to know the way of the cloud including why developing good cloud software is fundamentally about mindset and discipline Know what microservices are and how to design them Create reactive applications in the cloud with third party messaging providers Build massive scale user friendly GUIs with React and Flux Secure cloud based web applications the do s don ts and options Plan cloud apps that support continuous delivery and deployment In Detail Businesses today are evolving so rapidly that having their own infrastructure to support their expansion is not feasible As a result they have been resorting to the elasticity of the cloud to provide a platform to build

and deploy their highly scalable applications This book will be the one stop for you to learn all about building cloud native architectures in Python It will begin by introducing you to cloud native architecture and will help break it down for you Then you ll learn how to build microservices in Python using REST APIs in an event driven approach and you will build the web layer Next you ll learn about Interacting data services and building Web views with React after which we will take a detailed look at application security and performance Then you ll also learn how to Dockerize your services And finally you ll learn how to deploy the application on the AWS and Azure platforms We will end the book by discussing some concepts and techniques around troubleshooting problems that might occur with your applications after you ve deployed them This book will teach you how to craft applications that are built as small standard units using all the proven best practices and avoiding the usual traps It s a practical book we re going to build everything using Python 3 and its amazing tooling ecosystem The book will take you on a journey the destination of which is the creation of a complete Python application based on microservices over the cloud platform Style and approach Filled with examples this book takes a step by step approach to teach you each and every configuration you need to make your application highly available and fault tolerant

Containers for Developers Handbook Francisco Javier Ramírez Urea, 2023-11-28 Effortlessly create and manage complex multi component applications based on Docker containers Key Features Gain a clear understanding of software containers from the SecDevOps perspective Master the construction of application pieces within containers to achieve a seamless life cycle Prepare your applications to run smoothly and with ease in complex container orchestrators Purchase of the print or Kindle book includes a free PDF eBook Book Description Developers are changing their deployment artifacts from application binaries to container images giving rise to the need to build container based apps as part of their new development workflow Managing an app s life cycle is complex and requires effort this book will show you how to efficiently develop share and execute applications You ll learn how to automate the build and delivery process using CI CD tools with containers as container orchestrators manage the complexity of running cluster wide applications creating infrastructure abstraction layers while your applications run with high availability resilience and persistence As you advance you ll develop test and debug applications on your desktop and get them ready to run in production with optimal security standards using deployment patterns and monitoring tools to help identify common issues You ll also review deployment patterns that ll enable you to solve common deployment problems providing high availability scalability and security to your applications Finally you ll explore different solutions to monitor log and instrument your applications as per open source community standards By the end of this book you ll be able to manage your app s life cycle by implementing CI CD workflows using containers to automate the building and delivery of its components What you will learn Find out how to build microservices based applications using containers Deploy your processes within containers using Docker features Orchestrate multi component applications on standalone servers Deploy applications cluster wide in container orchestrators Solve common

deployment problems such as persistency or app exposure using best practices Review your application s health and debug it using open source tools Discover how to orchestrate CI CD workflows using containers Who this book is for This book is for developers and DevOps engineers looking to learn about the implementation of containers in application development especially DevOps engineers who deploy monitor and maintain container based applications running on orchestrated platforms In general this book is for IT professionals who want to understand Docker container based applications and their deployment A basic understanding of coding and frontend backend architectures is needed to follow the examples presented in this book The Art of Docker Ryan Campbell,2024-05-18 Unleash the Power of Docker Transform Your App

Development Imagine seamless efficient and scalable app development With Docker this vision becomes reality The Art of Docker is your essential guide to mastering Docker revolutionizing how you build deploy and manage applications What You ll Learn 1 Docker Fundamentals Containers and Images Understand core concepts and the revolution of containerization Installing Docker Step by step setup for Windows macOS and Linux Docker CLI Master the command line with hands on examples 2 Building and Managing Containers Creating Docker Images Craft efficient Dockerfiles and optimize performance Managing Containers Spin up and manage containers seamlessly Persistent Data Maintain application state across restarts with volumes 3 Advanced Techniques Multi Container Apps Orchestrate complex applications with Docker Compose Scaling and Load Balancing Scale effortlessly with Docker Swarm Security Best Practices Protect your containers from vulnerabilities 4 Real World Applications CI CD Integration Set up CI CD pipelines automate builds and streamline deployments Monitoring and Logging Implement monitoring solutions and centralized logging Why You ll Love This Book Hands On Learning Practical examples and step by step tutorials Expert Insights Tips and best practices from an experienced Docker practitioner Comprehensive Coverage Everything from basics to advanced techniques Engaging and Accessible Clear concise and suitable for all skill levels Revolutionize your development process and take your applications to new heights Whether you re a seasoned developer or a beginner The Art of Docker equips you with the skills and knowledge to harness the full power of containerization Get your copy today and embark on your journey to Docker mastery **The Book of Kubernetes** Alan Hohn,2022-09-06 This hands on guidebook to the inner workings of containers peels back the layers to provide a deep understanding of what a container is how containerization changes the way programs run and how Kubernetes provides computing networking and storage Containers ensure that software runs reliably no matter where it s deployed and Kubernetes lets you manage all of your containers from a single control plane In this comprehensive tour of the open source platform each chapter includes a set of example scripts with just enough automation to start your container exploration with ease Beginning with an overview of modern architecture and the benefits of orchestration you ll quickly learn how to create containers how to deploy administer and debug Kubernetes clusters all the way down to the OS and how container networking works at the packet level across multiple nodes in a cluster *Kubernetes: Up and Running* Kelsey

Hightower, Brendan Burns, Joe Beda, 2017-09-07 Legend has it that Google deploys over two billion application containers a week. How is that possible? Google revealed the secret through a project called Kubernetes, an open source cluster orchestrator based on its internal Borg system that radically simplifies the task of building, deploying, and maintaining scalable distributed systems in the cloud. This practical guide shows you how Kubernetes and container technology can help you achieve new levels of velocity, agility, reliability, and efficiency. Authors Kelsey Hightower, Brendan Burns, and Joe Beda, who've worked on Kubernetes at Google and other organizations, explain how this system fits into the lifecycle of a distributed application. You will learn how to use tools and APIs to automate scalable distributed systems, whether it is for online services, machine learning applications, or a cluster of Raspberry Pi computers. Explore the distributed system challenges that Kubernetes addresses. Dive into containerized application development using containers such as Docker. Create and run containers on Kubernetes using the Docker image format and container runtime. Explore specialized objects essential for running applications in production. Reliably roll out new software versions without downtime or errors. Get examples of how to develop and deploy real-world applications in Kubernetes.

Geographic Data Science with Python Sergio Rey, Dani Arribas-Bel, Levi John Wolf, 2023-06-14 This book provides the tools, the methods, and the theory to meet the challenges of contemporary data science applied to geographic problems and data. In the new world of pervasive, large, frequent, and rapid data, there are new opportunities to understand and analyze the role of geography in everyday life. Geographic Data Science with Python introduces a new way of thinking about analysis by using geographical and computational reasoning; it shows the reader how to unlock new insights hidden within data. Key Features: Showcases the excellent data science environment in Python. Provides examples for readers to replicate, adapt, extend, and improve. Covers the crucial knowledge needed by geographic data scientists. It presents concepts in a far more geographic way than competing textbooks, covering spatial data mapping and spatial statistics, whilst covering concepts such as clusters and outliers as geographic concepts. Intended for data scientists, GIScientists, and geographers, the material provided in this book is of interest due to the manner in which it presents geospatial data methods, tools, and practices in this new field.

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.

Molecular Oncology Diagnostics, An Issue of the Clinics in Laboratory Medicine, E-Book Fei Dong, 2022-09-23 In this issue of Clinics in Laboratory Medicine guest editor Dr Fei Dong brings his considerable expertise to the topic of Molecular Oncology Diagnostics. Top experts in the field review current practices in molecular oncology diagnostics highlighting the rapid clinical adoption of next-generation sequencing techniques. The articles address key laboratory considerations in the molecular testing of cancer specimens and the impact of advanced testing strategies on patient care. Contains 15 practice-oriented topics including utility of single gene testing in cancer specimens, analytical principles of cancer next-generation sequencing, principles and validation of bioinformatics pipelines for cancer next-generation sequencing, panel sequencing for targeted therapy selection in solid tumors and more. Provides in-depth clinical reviews on molecular oncology diagnostics offering actionable insights for clinical practice. Presents the latest information on this timely focused topic under the leadership of experienced editors in the field. Authors synthesize and distill the latest research and practice guidelines to create clinically significant topic-based reviews.

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

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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

Mining the Social Web Matthew A. Russell, Mikhail Klassen, 2018-12-04 Mine the rich data tucked away in popular social websites such as Twitter Facebook LinkedIn and Instagram With the third edition of this popular guide data scientists analysts and programmers will learn how to glean insights from social media including who s connecting with whom what they re talking about and where they re located using Python code examples Jupyter notebooks or Docker containers In part one each standalone chapter focuses on one aspect of the social landscape including each of the major social sites as well as web pages blogs and feeds mailboxes GitHub and a newly added chapter covering Instagram Part two provides a cookbook with two dozen bite size recipes for solving particular issues with Twitter Get a straightforward synopsis of the social web landscape Use Docker to easily run each chapter s example code packaged as a Jupyter notebook Adapt and contribute to the code s open source GitHub repository Learn how to employ best in class Python 3 tools to slice and dice the data you collect Apply advanced mining techniques such as TFIDF cosine similarity collocation analysis clique detection and image recognition Build beautiful data visualizations with Python and JavaScript toolkits

Cloud Native Security Chris Binnie, Rory McCune, 2021-06-18 Explore the latest and most comprehensive guide to securing your Cloud Native technology stack Cloud Native Security delivers a detailed study into minimizing the attack surfaces found on today s Cloud Native infrastructure Throughout the work hands on examples walk through mitigating threats and the areas of concern that need to be addressed The book contains the information that professionals need in order to build a diverse mix of the niche knowledge required to harden Cloud Native estates The book begins with more accessible content about understanding Linux containers and container runtime protection before moving on to more advanced subject matter like advanced attacks on Kubernetes You ll also learn about Installing and configuring multiple types of DevSecOps tooling in CI CD pipelines Building a forensic logging system that can provide exceptional levels of detail suited to busy containerized estates Securing the most popular container orchestrator Kubernetes Hardening cloud platforms and automating security enforcement in the cloud using sophisticated policies Perfect for DevOps engineers platform engineers security professionals

and students Cloud Native Security will earn a place in the libraries of all professionals who wish to improve their understanding of modern security challenges

Ultimate Docker for Cloud Native Applications Meysam Azad
,2024-02-19 Unlock the Power of Docker to Revolutionize Your Development and Deployment Strategies KEY FEATURES Dive into real world Docker expertise through hands on learning and practical exercises Covers Docker fundamentals and extends to advanced orchestration techniques for holistic understanding of the ecosystem Benefit from expert perspectives gaining insider knowledge and practical insights DESCRIPTION Embark on an enriching Docker journey with this definitive guide meticulously designed to take you from foundational knowledge to advanced mastery This book adopts a holistic approach to containerization starting with essential concepts Docker s intricacies and then moving on to an exploration of core concepts and architecture You will then move seamlessly through building and managing Docker images navigating networking challenges and mastering the art of persistent data management Each chapter builds upon the last ensuring a thorough grasp of Docker s intricacies The book will help you streamline deployment with Docker Compose scale applications through Docker Swarm fortify deployments with security insights and seamlessly integrate Docker into your CI CD pipelines Push the boundaries further with discussions on Docker in cloud platforms an introduction to Kubernetes and advanced Docker concepts Authored by a seasoned Senior Site Reliability Engineer SRE this book goes beyond the theoretical by providing insider insights best practices and real world scenarios Bridging the gap between concepts and application it serves as your trusted companion in navigating Docker complexities WHAT WILL YOU LEARN Build and manage Docker containers with practical proficiency Create efficient Docker images tailored to diverse application requirements Orchestrate containers seamlessly using Kubernetes for robust and scalable deployments Implement advanced networking solutions within the Docker environment Troubleshoot common issues and optimize Dockerized applications for peak performance Gain expert insights on architecting scalable and resilient software solutions WHO IS THIS BOOK FOR Tailored for Software Developers System Administrators DevOps Engineers IT Managers Cloud Architects and Infrastructure Engineers this book offers valuable insights and advanced techniques Whether you re a Docker beginner or seeking to deepen your expertise it addresses a variety of roles in the dynamic realms of software development and IT While no prior Docker experience is required a foundational understanding of containerization concepts and familiarity with Linux environments can enhance the learning experience for all readers TABLE OF CONTENTS 1 Introduction to Docker 2 Docker Architecture and Components 3 Building and Managing Docker Images 4 Docker Networking 5 Persistent Data Management with Docker 6 Docker Compose for Simplified Application Deployment 7 Scaling Applications with Docker Swarm 8 Securing Docker Deployments 9 Docker in Continuous Integration and Deployment 10 Docker on Cloud Platforms 11 Introduction to Kubernetes 12 Exploring Advanced Docker Concepts 13 Future Trends in Containerization Appendix A All in One Cheatsheet Index

Bioinformatics with Python Cookbook Tiago Antao,2022-09-27 Discover modern next generation sequencing libraries from the powerful

Python ecosystem to perform cutting edge research and analyze large amounts of biological data

Key Features

- Perform complex bioinformatics analysis using the most essential Python libraries and applications
- Implement next generation sequencing metagenomics automating analysis population genetics and much more
- Explore various statistical and machine learning techniques for bioinformatics data analysis

Book Description

Bioinformatics is an active research field that uses a range of simple to advanced computations to extract valuable information from biological data and this book will show you how to manage these tasks using Python

This updated third edition of the Bioinformatics with Python Cookbook begins with a quick overview of the various tools and libraries in the Python ecosystem that will help you convert analyze and visualize biological datasets

Next you ll cover key techniques for next generation sequencing single cell analysis genomics metagenomics population genetics phylogenetics and proteomics with the help of real world examples

You ll learn how to work with important pipeline systems such as Galaxy servers and Snakemake and understand the various modules in Python for functional and asynchronous programming

This book will also help you explore topics such as SNP discovery using statistical approaches under high performance computing frameworks including Dask and Spark

In addition to this you ll explore the application of machine learning algorithms in bioinformatics

By the end of this bioinformatics Python book you ll be equipped with the knowledge you need to implement the latest programming techniques and frameworks empowering you to deal with bioinformatics data on every scale

What you will learn

- Become well versed with data processing libraries such as NumPy pandas arrow and zarr in the context of bioinformatic analysis
- Interact with genomic databases
- Solve real world problems in the fields of population genetics phylogenetics and proteomics
- Build bioinformatics pipelines using a Galaxy server and Snakemake
- Work with functools and itertools for functional programming
- Perform parallel processing with Dask on biological data
- Explore principal component analysis PCA techniques with scikit learn

Who this book is for

This book is for bioinformatics analysts data scientists computational biologists researchers and Python developers who want to address intermediate to advanced biological and bioinformatics problems

Working knowledge of the Python programming language is expected

Basic knowledge of biology will also be helpful

Immerse yourself in the artistry of words with Crafted by is expressive creation, Discover the Artistry of **Book And Docker Containers Content Update Program** . This ebook, presented in a PDF format (Download in PDF: *), is a masterpiece that goes beyond conventional storytelling. Indulge your senses in prose, poetry, and knowledge. Download now to let the beauty of literature and artistry envelop your mind in a unique and expressive way.

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