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Docker Up & Running

Shipping Reliable Containers in Production



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Docker Up & Running Sean P. Kane, 2018 **Docker: Up & Running** Sean P. Kane, Karl Matthias, 2018-09-07 Docker is rapidly changing the way organizations deploy software at scale However understanding how Linux containers fit into your workflow and getting the integration details right is not a trivial task With the updated edition of this practical guide you ll learn how to use Docker to package your applications with all of their dependencies and then test ship scale and support your containers in production This edition includes significant updates to the examples and explanations that reflect the substantial changes that have occurred over the past couple of years Sean Kane and Karl Matthias have added a complete chapter on Docker Compose deeper coverage of Docker Swarm mode introductions to both Kubernetes and AWS Fargate examples on how to optimize your Docker images and much more Learn how Docker simplifies dependency management and deployment workflow for your applications Start working with Docker images containers and command line tools Use practical techniques to deploy and test Docker containers in production Debug containers by understanding their composition and internal processes Deploy production containers at scale inside your data center or cloud environment Explore advanced Docker topics including deployment tools networking orchestration security and configuration Docker: Up & Running Karl Matthias, Sean P. Kane, 2015-06-11 Updated to cover Docker version 1.10 Docker is quickly changing the way that organizations are deploying software at scale But understanding how Linux containers fit into your workflow and getting the integration details right are not trivial tasks With this practical guide you ll learn how to use Docker to package your applications with all of their dependencies and then test ship scale and support your containers in production Two Lead Site Reliability Engineers at New Relic share much of what they have learned from using Docker in production since shortly after its initial release Their goal is to help you reap the benefits of this technology while avoiding the many setbacks they experienced Learn how Docker simplifies dependency management and deployment workflow for your applications Start working with Docker images containers and command line tools Use practical techniques to deploy and test Docker based Linux containers in production Debug containers by understanding their composition and internal processes Deploy production containers at scale inside your data center or cloud environment Explore advanced Docker topics including deployment tools networking orchestration security and configuration High Performance Computing Juan Luis Crespo-Mariño, Esteban Meneses-Rojas, 2020-02-12 This book constitutes the refereed proceedings of the 6th Latin American High Performance Computing Conference CARLA 2019 held in Turrialba Costa Rica in September 2019 The 32 revised full papers presented were carefully reviewed and selected out of 62 submissions The papers included in this book are organized according to the conference tracks regular track on high performance computing applications algorithms and models architectures and infrastructures and special track on bioinspired processing BIP neural and evolutionary approaches image and signal processing biodiversity informatics and computational biology Sustainable Development and Innovations in

Marine Technologies Selma Ergin,C. Guedes Soares,2022-09-13 Sustainable Development and Innovations in Marine Technologies includes the papers presented at the 19th International Congress of the International Association of the Mediterranean IMAM 2022 Istanbul Turkey 26 29 September 2022 one of the major conferences in maritime industry The Congress has a history of more than forty years since the first Congress was held in Istanbul in 1978 IMAM 2022 is the fourth congress hosted by Istanbul in its history The IMAM congresses concentrate their activities in the thematic areas of Ship Building and Repair Maritime Transportation and Logistics Hydrodynamics Marine Structures Machinery and Control Design and Materials Marine Environment Safety of Marine Systems Decarbonisation and Digitalization Off shore and Coastal Development Noise and Vibration Defense and Security Off shore Renewable Energy Sustainable Development and Innovations in Marine Technologies is essential reading for academics engineers and all professionals involved in sustainable and innovative marine technologies

Advances in E-Business Engineering for Ubiquitous Computing Kuo-Ming Chao,Lihong Jiang,Omar Khadeer Hussain,Shang-Pin Ma,Xiang Fei,2019-11-27 This book presents the latest trends in scientific methods and enabling technologies to advance e business It consists of selected high quality papers from the 16th International Conference on E Business Engineering ICEBE 2019 held in Shanghai China on 11 13 October 2019 ICEBE is a leading international forum for researchers engineers and business specialists to exchange cutting edge ideas findings and experiences in the field of e business The book covers a range of topics including agents for e business big data for e business Internet of Things mobile and autonomous computing security privacy trust service oriented and cloud computing software engineering blockchain and industry applications

Multi-Disciplinary Engineering for Cyber-Physical Production Systems Stefan Biffl,Arndt Lüder,Detlef Gerhard,2017-05-06 This book discusses challenges and solutions for the required information processing and management within the context of multi disciplinary engineering of production systems The authors consider methods architectures and technologies applicable in use cases according to the viewpoints of product engineering and production system engineering and regarding the triangle of 1 product to be produced by a 2 production process executed on 3 a production system resource With this book industrial production systems engineering researchers will get a better understanding of the challenges and requirements of multi disciplinary engineering that will guide them in future research and development activities Engineers and managers from engineering domains will be able to get a better understanding of the benefits and limitations of applicable methods architectures and technologies for selected use cases IT researchers will be enabled to identify research issues related to the development of new methods architectures and technologies for multi disciplinary engineering pushing forward the current state of the art

Microservices Antonio Bucchiarone,Nicola Dragoni,Schahram Dustdar,Patricia Lago,Manuel Mazzara,Victor Rivera,Andrey Sadovykh,2019-12-11 This book describes in contributions by scientists and practitioners the development of scientific concepts technologies engineering techniques and tools for a service based society The focus is on microservices i e cohesive independent

processes deployed in isolation and equipped with dedicated memory persistence tools which interact via messages The book is structured in six parts Part 1 Opening analyzes the new and old challenges including service design and specification data integrity and consistency management and provides the introductory information needed to successfully digest the remaining parts Part 2 Migration discusses the issue of migration from monoliths to microservices and their loosely coupled architecture Part 3 Modeling introduces a catalog and a taxonomy of the most common microservices anti patterns and identifies common problems It also explains the concept of RESTful conversations and presents insights from studying and developing two further modeling approaches Next Part 4 is dedicated to various aspects of Development and Deployment Part 5 then covers Applications of microservices presenting case studies from Industry 4 0 Netflix and customized SaaS examples Eventually Part 6 focuses on Education and reports on experiences made in special programs both at academic level as a master program course and for practitioners in an industrial training As only a joint effort between academia and industry can lead to the release of modern paradigm based programming languages and subsequently to the deployment of robust and scalable software systems the book mainly targets researchers in academia and industry who develop tools and applications for microservices

Fundamental Approaches to Software Engineering Reiner Hähnle, Wil van der Aalst, 2019-04-03 This book is Open Access under a CC BY licence This book constitutes the proceedings of the 22nd International Conference on Fundamental Approaches to Software Engineering FASE 2019 which took place in Prague Czech Republic in April 2019 held as Part of the European Joint Conferences on Theory and Practice of Software ETAPS 2019 The 24 papers presented in this volume were carefully reviewed and selected from 94 submissions The papers are organized in topical sections named software verification model driven development and model transformation software evolution and requirements engineering specification design and implementation of particular classes of systems and software testing

Active Object Languages: Current Research Trends Frank de Boer, Ferruccio Damiani, Reiner Hähnle, Einar Broch Johnsen, Eduard Kamburjan, 2024-01-28 Active Objects are a programming paradigm that supports a non competitive data driven concurrency model This renders active object languages to be well suited for simulation data race free programming and formal verification Concepts from active objects made their way into languages such as Rust ABS Akka JavaScript and Go This is the first comprehensive state of art overview on the subject the invited contributions are written by experts in the areas of distributed systems formal methods and programming languages

CLOUD COMPUTING Riko Herwanto, Onno W. Purbo, RZ. Abd. Aziz, 2021-02-08 Komputasi awan cloud computing adalah teknologi yang menjadikan internet sebagai pusat pengelolaan data dan aplikasi dengan pengguna komputer diberikan hak akses login Awan cloud adalah metafora dari internet sebagaimana awan yang sering digambarkan di diagram jaringan komputer Sebagaimana awan dalam diagram jaringan komputer awan cloud dalam Cloud Computing juga merupakan abstraksi dari infrastruktur kompleks yang disembunyikannya Ia adalah suatu metode komputasi yang kapabilitas terkait teknologi informasinya disajikan sebagai suatu

layanan as a service sehingga pengguna dapat mengaksesnya melalui internet di dalam awan tanpa mengetahui apa yang ada di dalamnya ahli dengannya atau memiliki kendali terhadap infrastruktur teknologi yang membantunya Buku ini bertujuan supaya pembaca dapat mengetahui dan memahami semua tentang kapasitas media penyimpanan online dengan jelas Di dalam buku ini akan dibahas segala hal mengenai manajemen dan perencanaan kapasitas dalam cloud computing antara lain karakteristik cloud bentuk dan pemodelan cloud computing layanan cloud computing manajemen kapasitas cloud mengelola kapasitas cloud perencanaan kapasitas pengukuran kapasitas desain manajemen kapasitas dan lain sebagainya

The Art of Capacity Planning Arun Kejariwal, John Allspaw, 2017-09-21 In their early days Twitter Flickr Etsy and many other companies experienced sudden spikes in activity that took their web services down in minutes Today determining how much capacity you need for handling traffic surges is still a common frustration of operations engineers and software developers This hands on guide provides the knowledge and tools you need to measure deploy and manage your web application infrastructure before you experience explosive growth In this thoroughly updated edition authors Arun Kejariwal MZ and John Allspaw provide a systematic robust and practical approach to capacity planning rather than theoretical models based on their own experiences and those of many colleagues in the industry They address the vast sea change in web operations especially cloud computing Understand issues that arise on heavily trafficked websites or mobile apps Explore how capacity fits into web mobile app availability and performance Use tools for measuring and monitoring computer performance and usage Turn measurement data into robust forecasts and learn how trending fits into the planning process Examine related deployment concepts installation configuration and management automation Learn how cloud autoscaling enables you to scale your app s capacity up or down

Advances in Intelligent Networking and Collaborative Systems Fatos Xhafa, Leonard Barolli, Michal Greguš, 2018-08-25 This book provides the latest research findings and discusses from both theoretical and practical perspectives innovative research methods and development techniques related to intelligent social networks and collaborative systems intelligent networking systems mobile collaborative systems and secure intelligent cloud systems It also presents the synergies among various paradigms in such a multi disciplinary field of intelligent collaborative systems With the rapid development of the Internet we are experiencing a shift from the traditional sharing of information and applications as the main purpose of the Web to an emergent paradigm which locates people at the very centre of networks and exploits the value of individuals connections relations and collaboration Social networks are also playing a major role in the dynamics and structure of intelligent Web based networking and collaborative systems Virtual campuses virtual communities and organizations strongly leverage intelligent networking and collaborative systems by means of a great variety of formal and informal electronic relations such as business to business peer to peer and various types of online collaborative learning interactions including the emerging e learning systems This has resulted in entangled systems that need to be managed efficiently and autonomously In addition the latest powerful technologies based on grid and wireless

infrastructure as well as cloud computing are currently enhancing collaborative and networking applications significantly but are also facing new issues and challenges The principal purpose of the research and development community is to stimulate research that will lead to the creation of responsive environments for networking and in the longer term the development of adaptive secure mobile and intuitive intelligent systems for collaborative work and learning

Microservices: Up and Running Ronnie Mitra, Irakli Nadareishvili, 2020-11-25 Microservices architectures offer faster change speeds better scalability and cleaner evolvable system designs But implementing your first microservices architecture is difficult How do you make myriad choices educate your team on all the technical details and navigate the organization to a successful execution to maximize your chance of success With this book authors Ronnie Mitra and Irakli Nadareishvili provide step by step guidance for building an effective microservices architecture Architects and engineers will follow an implementation journey based on techniques and architectures that have proven to work for microservices systems You ll build an operating model a microservices design an infrastructure foundation and two working microservices then put those pieces together as a single implementation For anyone tasked with building microservices or a microservices architecture this guide is invaluable Learn an effective and explicit end to end microservices system design Define teams their responsibilities and guidelines for working together Understand how to slice a big application into a collection of microservices Examine how to isolate and embed data into corresponding microservices Build a simple yet powerful CI CD pipeline for infrastructure changes Write code for sample microservices Deploy a working microservices application on Amazon Web Services

Terraform: Up and Running Yevgeniy Brikman, 2017-03-13 Terraform has emerged as a key player in the DevOps world for defining launching and managing infrastructure as code IAC across a variety of cloud and virtualization platforms including AWS Google Cloud and Azure This hands on book is the fastest way to get up and running with Terraform Gruntwork co founder Yevgeniy Jim Brikman walks you through dozens of code examples that demonstrate how to use Terraform s simple declarative programming language to deploy and manage infrastructure with just a few commands Whether you re a novice developer aspiring DevOps engineer or veteran sysadmin this book will take you from Terraform basics to running a full tech stack capable of supporting a massive amount of traffic and a large team of developers Compare Terraform to other IAC tools such as Chef Puppet Ansible and Salt Stack Use Terraform to deploy server clusters load balancers and databases Learn how Terraform manages the state of your infrastructure and how it impacts file layout isolation and locking Create reusable infrastructure with Terraform modules Try out advanced Terraform syntax to implement loops if statements and zero downtime deployment Use Terraform as a team including best practices for writing testing and versioning Terraform code

Operating OpenShift Rick Rackow, Manuel Dewald, 2022-11-07 Kubernetes has gained significant popularity over the past few years with OpenShift as one of its most mature and prominent distributions But while OpenShift provides several layers of abstraction over vanilla Kubernetes this software can quickly become

overwhelming because of its rich feature set and functionality This practical book helps you understand and manage OpenShift clusters from minimal deployment to large multicloud installations Principal site reliability engineers Rick Rackow and Manuel Dewald who worked together on Red Hat's managed OpenShift offering for years provide valuable advice to help your teams operate OpenShift clusters efficiently Designed for SREs system administrators DevOps engineers and cloud architects Operating OpenShift encourages consistent and easy container orchestration and helps reduce the effort of deploying a Kubernetes platform You'll learn why OpenShift has become highly attractive to enterprises large and small Learn OpenShift core concepts and deployment strategies Explore multicloud OpenShift Container Platform deployments Administer OpenShift clusters following best practices Learn best practices for deploying workloads to OpenShift Monitor OpenShift clusters through state of the art concepts Build and deploy Kubernetes operators to automate administrative tasks Configure OpenShift clusters using a GitOps approach

Continuous Delivery in Java Daniel Bryant, Abraham Marín-Pérez, 2018-11-09 Continuous delivery adds enormous value to the business and the entire software delivery lifecycle but adopting this practice means mastering new skills typically outside of a developer's comfort zone In this practical book Daniel Bryant and Abraham Marín P rez provide guidance to help experienced Java developers master skills such as architectural design automated quality assurance and application packaging and deployment on a variety of platforms Not only will you learn how to create a comprehensive build pipeline for continually delivering effective software but you'll also explore how Java application architecture and deployment platforms have affected the way we rapidly and safely deliver new software to production environments Get advice for beginning or completing your migration to continuous delivery Design architecture to enable the continuous delivery of Java applications Build application artifacts including fat JARs virtual machine images and operating system container Docker images Use continuous integration tooling like Jenkins PMD and find security bugs to automate code quality checks Create a comprehensive build pipeline and design software to separate the deploy and release processes Explore why functional and system quality attribute testing is vital from development to delivery Learn how to effectively build and test applications locally and observe your system while it runs in production

Practical MLOps Noah Gift, Alfredo Deza, 2021-09-14 Getting your models into production is the fundamental challenge of machine learning MLOps offers a set of proven principles aimed at solving this problem in a reliable and automated way This insightful guide takes you through what MLOps is and how it differs from DevOps and shows you how to put it into practice to operationalize your machine learning models Current and aspiring machine learning engineers or anyone familiar with data science and Python will build a foundation in MLOps tools and methods along with AutoML and monitoring and logging then learn how to implement them in AWS Microsoft Azure and Google Cloud The faster you deliver a machine learning system that works the faster you can focus on the business problems you're trying to crack This book gives you a head start You'll discover how to Apply DevOps best practices to machine learning Build production machine learning systems and

maintain them Monitor instrument load test and operationalize machine learning systems Choose the correct MLOps tools for a given machine learning task Run machine learning models on a variety of platforms and devices including mobile phones and specialized hardware

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

Docker: Up & Running Sean P. Kane, Karl Matthias, 2023-04-13 Docker and Linux containers have fundamentally changed the way that organizations develop deliver and run software at scale But understanding why these tools are important and how they can be successfully integrated into your organization s ecosystem can be challenging This fully updated guide provides developers operators architects and technical managers with a thorough understanding of the Docker tool set and how containers can improve almost every aspect of modern software delivery and management This edition includes significant updates to the examples and explanations that reflect the substantial changes that have occurred since Docker was first released almost a decade ago Sean Kane and Karl Matthias have updated the text to reflect best practices and to provide additional coverage of new features like BuildKit multi architecture image support rootless containers and much more Learn how Docker and Linux containers integrate with cloud services and Kubernetes Experience building OCI images plus deploying and managing Linux containers with powerful command line tools Understand how OCI images simplify dependency management and deployment workflow for your applications Learn practical techniques for deploying and testing Linux containers in production Deploy production containers at scale wherever you need them Explore advanced Docker topics including deployment tools networking orchestration security and configuration

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