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**Prise en main
et mise en pratique
sur une architecture
micro-services**

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Informatique technique



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Docker Prise Pratique Architecture Micro Services

**Sandro De Santis,Luis Florez,Duy V
Nguyen,Eduardo Rosa,IBM Redbooks**

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Docker Jean-Philippe Gouigoux, 2018-02-14 *Ibm Certified Specialist - Containerized Environment Certification Prep Guide - 350 Questions and Answers [French]* CloudRoar Consulting Services, Ce guide complet de pr paration la certification IBM Certified Specialist Containerized Environment est destin aux professionnels souhaitant g rer des environnements conteneuris s IBM et r ussir l examen officiel Avec plus de 350 questions et r ponses d taill es le manuel couvre la configuration l orchestration la s curit et les meilleures pratiques pour des d ploiments fiables IBM Conteneurs Certification Pr parationExamen Orchestration S curit GuidePratique QuestionsR ponses Comp tencesProfessionnelles ExamenCertifi Formation Optimisation Expertise Professionnel **Building Server-side and Microservices with Go** Dušan Stojanović, 2021-09-21 Develop and deploy efficient server side applications and microservice architectures KEY FEATURES Extensive examples of the Go programming language and REST concepts Includes graphical illustrations and visual explanation of the microservice architecture Graphs and visual explanation for Docker and Kubernetes commands DESCRIPTION Building Server side and Microservices with Go teaches you the fundamentals of Go programming languages REST server applications and microservices You can develop efficient server side applications and use modern development concepts such as microservices after reading this book We will create simple server side applications and add new features as and when a new topic is covered We will begin with the fundamentals of Go programming languages which will create simple server side applications During development a layered design will be introduced with each application layer serving a specific purpose We will introduce you to the microservice concept and it is further divided into a couple of smaller microservices Finally we ll look at how to use Docker and Kubernetes to deploy and scale microservices After reading this book we will be able to successfully develop monolithic and microservice applications and identify when one approach is more appropriate than another This book can also help improve existing applications It is a perfect handy guide to build proficiency with Docker and Kubernetes WHAT YOU WILL LEARN Basics of Go programming language data types structures loops functions concurrency etc REST concept development and implementation Introduction to layered server side application designs and key roles PostgreSQL database design CRUD operations and queries Introduction to microservices common practices and advantages and disadvantages of microservices Microservices development with Go and how to break monolithic applications into microservices Understanding protocol buffers and message queuing protocols for microservice communications WHO THIS BOOK IS FOR This book is intended for backend developers software architects and students interested in learning about the Go programming language REST Server Applications and Microservices Knowing fundamental programming concepts would be an advantage but not essential TABLE OF CONTENTS 1 Fundamentals of Go Programming Language 2 REST Server Applications 3 HTTP Layer and Handler 4 Core Layer 5 Data Layer and Database 6 Microservices 7 Microservices in Go 8 Microservice Communication 9 Deployment and Scaling Hands-On Docker for

Microservices with Python Jaime Buelta, 2019-11-22 A step by step guide to building microservices using Python and Docker along with managing and orchestrating them with Kubernetes Key Features Learn to use Docker containers to create, operate and deploy your microservices Create workflows to manage independent deployments on coordinating services using CI and GitOps through GitHub Travis CI and Flux Develop a REST microservice in Python using the Flask framework and Postgres database Book Description Microservices architecture helps create complex systems with multiple interconnected services that can be maintained by independent teams working in parallel This book guides you on how to develop these complex systems with the help of containers You ll start by learning to design an efficient strategy for migrating a legacy monolithic system to microservices You ll build a RESTful microservice with Python and learn how to encapsulate the code for the services into a container using Docker While developing the services you ll understand how to use tools such as GitHub and Travis CI to ensure continuous delivery CD and continuous integration CI As the systems become complex and grow in size you ll be introduced to Kubernetes and explore how to orchestrate a system of containers while managing multiple services Next you ll configure Kubernetes clusters for production ready environments and secure them for reliable deployments In the concluding chapters you ll learn how to detect and debug critical problems with the help of logs and metrics Finally you ll discover a variety of strategies for working with multiple teams dealing with different microservices for effective collaboration By the end of this book you ll be able to build production grade microservices as well as orchestrate a complex system of services using containers What you will learn Discover how to design, test and operate scalable microservices Coordinate and deploy different services using Kubernetes Use Docker to construct scalable and manageable applications with microservices Understand how to monitor a complete system to ensure early detection of problems Become well versed with migrating from an existing monolithic system to a microservice one Use load balancing to ensure seamless operation between the old monolith and the new service Who this book is for This book is for developers, engineers or software architects who are trying to move away from traditional approaches for building complex multi service systems by adopting microservices and containers Although familiarity with Python programming is assumed, no prior knowledge of Docker is required *Playing with Java Microservices on Kubernetes and OpenShift* Nebrass Lamouchi, Playing with Java Microservices on Kubernetes and OpenShift will teach you how to build and design microservices using Java and the Spring platform This book covers topics related to creating Java microservices and deploy them to Kubernetes and OpenShift Traditionally Java developers have been used to developing large complex monolithic applications The experience of developing and deploying monoliths has been always slow and painful This book will help Java developers to quickly get started with the features and the concerns of the microservices architecture It will introduce Docker, Kubernetes and OpenShift to help them deploying their microservices The book is written for Java developers who wants to build microservices using the Spring Boot Cloud stack and who wants to deploy them to Kubernetes and OpenShift You will be

guided on how to install the appropriate tools to work properly For those who are new to Enterprise Development using Spring Boot you will be introduced to its core principles and main features thru a deep step by step tutorial on many components For experts this book offers some recipes that illustrate how to split monoliths and implement microservices and deploy them as containers to Kubernetes and OpenShift The following are some of the key challenges that we will address in this book Introducing Spring Boot Cloud for beginners Splitting a monolith using the Domain Driven Design approach Implementing the cloud microservices patterns Rethinking the deployment process Introducing containerization Docker Kubernetes and OpenShift By the end of reading this book you will have practical hands on experience of building microservices using Spring Boot Cloud and you will master deploying them as containers to Kubernetes and OpenShift

Microservices and Containers Parminder Singh Kocher,2018 **Building Scalable Microservices with Node.js and Docker** Greyson Chesterfield,2024-12-11 Unlock the power of modern application development with this comprehensive guide to building scalable resilient microservices using Node js and Docker Whether you re a seasoned developer or just starting your journey into distributed systems this book provides practical hands on guidance for creating production ready microservices 1 Discover how industry giants like Netflix Amazon and Uber leverage microservices to handle millions of requests while maintaining high availability Through real world examples and step by step tutorials you ll learn to Design and implement fault tolerant microservices architectures Master Docker containerization for consistent deployment Build secure scalable APIs with Node js Implement authentication and authorization across services Handle data consistency and transactions effectively Deploy and monitor microservices in production Perfect for software architects full stack developers and DevOps engineers looking to level up their skills in modern application development This practical guide bridges the gap between theory and implementation giving you the confidence to build robust scalable systems that can handle real world demands *Microservices with Docker on Microsoft Azure (includes Content Update Program)* Boris Scholl,Trent Swanson,Daniel Fernandez,2016-06-24 Book Content Update Program Beyond just describing the basics this book dives into best practices every aspiring microservices developer or architect should know Foreword by Corey Sanders Partner Director of Program Management Azure Microservice based applications enable unprecedented agility and ease of management and Docker containers are ideal for building them Microsoft Azure offers all the foundational technology and higher level services you need to develop and run any microservices application Microservices with Docker on Microsoft Azure brings together essential knowledge for creating these applications from the ground up or incrementally deconstructing monolithic applications over time The authors draw on their pioneering experience helping to develop Azure s microservices features and collaborating with Microsoft product teams who ve relied on microservices architectures for years They illuminate the benefits and challenges of microservices development and share best practices all developers and architects should know You ll gain hands on expertise through a detailed sample application downloadable at github.com/flakio/flakio github.io Step

by step you ll walk through working with services written in Node js Go and ASP NET 5 using diverse data stores mysql elasticsearch block storage The authors guide you through using Docker Hub as a service registry and Microsoft Azure Container service for cluster management and service orchestration Coverage includes Recognizing how microservices architectures are different and when they make sense Understanding Docker containers in the context of microservices architectures Building pulling and layering Docker images Working with Docker volumes containers images tags and logs Using Docker Swarm Docker Compose and Docker Networks Creating Docker hosts using the Azure portal Azure Resource Manager the command line docker machine or locally via Docker toolbox Establishing development and DevOps environments to support microservices applications Making the most of Docker s continuous delivery options Using Azure s cluster and container orchestration capabilities to operate and scale containerized microservices applications with maximum resilience Monitoring microservices applications with Azure Diagnostics Visual Studio Application Insights and Microsoft Operations Management Suite Developing microservices applications faster and more effectively with Azure Service Fabric An extensive sample application demonstrating the microservices concepts discussed throughout the book is available online In addition this book is part of InformIT s exciting new Content Update Program which provides content updates for major technology improvements As significant updates are made to Docker and Azure sections of this book will be updated or new sections will be added to match the updates to the technologies As updates become available they will be delivered to you via a free Web Edition of this book which can be accessed with any Internet connection To learn more visit informit.com/cup How to access the Web Edition Follow the instructions inside to learn how to register your book to access the FREE Web Edition

Accelerating Development Velocity Using Docker Kinnary Jangla, 2018-11-05 Discover how a software engineer can leverage Docker in order to expedite development velocity This book focuses on the fundamental concepts this program is built upon and explores how it can help you get your services up and running inside Docker containers You ll also review tips on how to debug microservices applications that run inside Docker containers Tech companies are now developing complex softwares that are comprised of multiple services running on different platforms and Docker has become an essential part of coordinating the communication between these services and platforms This book addresses problems caused by drifting microservices debugging across services inconsistent environments across machines and coordinating development of machine learning systems between a team of developers etc Accelerating Development Velocity Using Docker puts you on the path to transforming your complex systems into more efficient ones What You ll Learn Setup Docker and employ quick solutions to road blocks Review challenges associated with debugging microservices that sit behind a complex application Leverage Docker features to seamlessly get multiple microservices up and running Debug inside a Docker container Review advanced use cases of Docker that can help consistency of development environments Who This Book Is For Ideal for new to mid level infrastructure engineers who want to learn how to make their development

environments efficient across their and cross teams or for students who aspire to learn basics of how to debug distributed systems and how to develop efficient applications [Deploying Machine Learning Models as Microservices Using Docker](#)
Hollin Wilkins,2017 Modern applications running in the cloud often rely on REST based microservices architectures by using Docker containers Docker enables your applications to communicate between one another and to compose and scale various components Data scientists use these techniques to efficiently scale their machine learning models to production applications This video teaches you how to deploy machine learning models behind a REST API to serve low latency requests from applications without using a Spark cluster In the process you ll learn how to export models trained in SparkML how to work with Docker a convenient way to build deploy and ship application code for microservices and how a model scoring service should support single on demand predictions and bulk predictions Learners should have basic familiarity with the following Scala or Python Hadoop Spark or Pandas SBT or Maven cloud platforms like Amazon Web Services Bash Docker and REST Resource description page **Building Microservices** Ted Beacon,2024-04-18 Dive into the world of building scalable efficient and robust applications with Building Microservices with NET Core and Docker This expertly crafted guide is designed for software developers architects and IT professionals seeking to harness the power of microservices architecture alongside the efficiency of NET Core and the agility of Docker Whether you re a seasoned NET developer or new to the realm of microservices this book provides the knowledge and skills necessary to develop containerize and deploy microservices based applications with confidence Starting with the fundamentals you ll explore the core concepts of microservices and NET Core gradually progressing to more advanced topics such as microservice design development testing and security Learn how to containerize NET microservices with Docker orchestrate them with Docker Compose and Kubernetes and ensure their security monitoring and logging for seamless operation Building Microservices with NET Core and Docker stands out with its practical approach blending in depth tutorials best practices and real world examples By the end of this book you ll be equipped to design and deploy resilient microservices that scale effortlessly adapt quickly to change and meet the demands of modern software development Embrace the microservices revolution and elevate your NET applications to new heights

Cloud Native Microservices with Spring and Kubernetes Rajiv Srivastava,2021-07-03 Build and deploy scalable cloud native microservices using the Spring framework and Kubernetes KEY FEATURES Complete coverage on how to design build run and deploy modern cloud native microservices Includes numerous sample code exercises on microservices Spring and Kubernetes Develop a stronghold on Kubernetes Spring and the microservices architecture Complete guide of application containerization on Kubernetes containers Coverage on managing modern applications and infrastructure using observability tools DESCRIPTION The main objective of this book is to give an overview of cloud native microservices their architecture design patterns best practices real use cases and practical coverage of modern applications This book covers a strong understanding of the fundamentals of microservices API first approach Testing observability API Gateway Service

Mesh and Kubernetes alternatives of Spring Cloud This book covers the implementation of various design patterns of developing cloud native microservices using Spring framework docker and Kubernetes libraries It covers containerization concepts and hands on lab exercises like how to build run and manage microservices applications using Kubernetes After reading this book the readers will have a holistic understanding of building running and managing cloud native microservices applications on Kubernetes containers

WHAT YOU WILL LEARN Learn fundamentals of microservice and design patterns Learn microservices development using Spring Boot and Kubernetes Learn to develop reactive event driven and batch microservices Perform end to end microservices testing using Cucumber Implement API gateway authentication authorization load balancing caching rate limiting Learn observability and monitoring techniques of microservices

WHO THIS BOOK IS FOR This book is for the Spring Developers Microservice Developers Cloud Engineers DevOps Consultants Technical Architect and Solution Architects who have some familiarity with application development Docker and Kubernetes containers

TABLE OF CONTENTS 1 Overview of Cloud Native microservices 2 Microservice design patterns 3 API first approach 4 Build microservices using the Spring Framework 5 Batch microservices 6 Build reactive and event driven microservices 7 The API gateway security and distributed caching with Redis 8 Microservices testing and API mocking 9 Microservices observability 10 Containers and Kubernetes overview and architecture 11 Run microservices on Kubernetes 12 Service Mesh and Kubernetes alternatives of Spring Cloud

Getting Started with Kubernetes and Docker BOOKER. BLUNT,2025-05-22 Dive into the world of containerization and microservices with this practical introduction to Kubernetes and Docker Perfect for beginners this book guides you through setting up managing and deploying containerized applications enabling you to build scalable and efficient software systems Learn how to use these powerful tools to streamline your development and deployment workflows manage clusters and orchestrate containers for maximum performance What you ll learn Understanding the fundamentals of containerization Setting up and using Docker for building and managing containers Introduction to Kubernetes for container orchestration Deploying and scaling applications using Kubernetes clusters Managing pods services and deployments in Kubernetes Creating and managing Docker images and registries Implementing microservices architecture with containers Automating deployment pipelines with Docker and Kubernetes Monitoring and troubleshooting containerized applications Best practices for secure and efficient container management By the end of this book you ll be equipped to deploy and manage containerized applications confidently leveraging Kubernetes and Docker to build modern microservices architectures Perfect for developers DevOps engineers and IT professionals new to container orchestration and microservices

Evolve the Monolith to Microservices with Java and Node Sandro De Santis,Luis Florez,Duy V Nguyen,Eduardo Rosa,IBM Redbooks,2016-12-05 Microservices is an architectural style in which large complex software applications are composed of one or more smaller services Each of these microservices focuses on completing one task that represents a small business capability These microservices can be developed in any programming language This

IBM Redbooks publication shows how to break out a traditional Java EE application into separate microservices and provides a set of code projects that illustrate the various steps along the way These code projects use the IBM WebSphere Application Server Liberty IBM API Connect™ IBM Bluemix and other Open Source Frameworks in the microservices ecosystem The sample projects highlight the evolution of monoliths to microservices with Java and Node [Hands-On Cloud-Native Microservices with Jakarta EE](#) Luigi Fugaro, Mauro Vocale, 2019-01-31 Discover how cloud native microservice architecture helps you to build dynamically scalable applications by using the most widely used and adopted runtime environments Key Features Build robust cloud native applications using a variety of tools Understand how to configure both Amazon Web Services AWS and Docker clouds for high availability Explore common design patterns used in building and deploying microservices architecture Book Description Businesses today are evolving rapidly and developers now face the challenge of building applications that are resilient flexible and native to the cloud To achieve this you ll need to be aware of the environment tools and resources that you re coding against The book will begin by introducing you to cloud native architecture and simplifying the major concepts You ll learn to build microservices in Jakarta EE using MicroProfile with Thorntail and Narayana LRA You ll then delve into cloud native application x rays understanding the MicroProfile specification and the implementation testing of microservices As you progress further you ll focus on continuous integration and continuous delivery in addition to learning how to dockerize your services You ll also cover concepts and techniques relating to security monitoring and troubleshooting problems that might occur with applications after you ve written them By the end of this book you will be equipped with the skills you need to build highly resilient applications using cloud native microservice architecture What you will learn Integrate reactive principles in MicroProfile microservices architecture Explore the 12 factors app paradigm and its implications Get the best out of Java versions 8 and 9 to implement a microservice based on Thorntail Understand what OpenShift is and why it is so important for an elastic architecture Build a Linux container image using Docker and scale the application using Kubernetes Implement various patterns such as Circuit Breaker and bulkheads Get to grips with the DevOps methodology using continuous integration CI and continuous deployment CD Who this book is for This book is for developers with basic knowledge of Java EE and HTTP based application principles who want to learn how to build test and scale Java EE microservices No prior experience of writing microservices in Java EE is required

Playing with Java Microservices on Kubernetes and OpenShift Nebrass Lamouchi, 2018-11-24 Playing with Java Microservices on Kubernetes and OpenShift will teach you how to build and design microservices using Java and the Spring platform This book covers topics related to creating Java microservices and deploy them to Kubernetes and OpenShift Traditionally Java developers have been used to developing large complex monolithic applications The experience of developing and deploying monoliths has been always slow and painful This book will help Java developers to quickly get started with the features and the concerns of the microservices architecture It will introduce Docker Kubernetes and

OpenShift to help them deploying their microservices The book is written for Java developers who wants to build microservices using the Spring Boot Cloud stack and who wants to deploy them to Kubernetes and OpenShift You will be guided on how to install the appropriate tools to work properly For those who are new to Enterprise Development using Spring Boot you will be introduced to its core principles and main features thru a deep step by step tutorial on many components For experts this book offers some recipes that illustrate how to split monoliths and implement microservices and deploy them as containers to Kubernetes and OpenShift The following are some of the key challenges that we will address in this book Introducing Spring Boot Cloud for beginners Splitting a monolith using the Domain Driven Design approach Implementing the cloud microservices patterns Rethinking the deployment process Introducing containerization Docker Kubernetes and OpenShift By the end of reading this book you will have practical hands on experience of building microservices using Spring Boot Cloud and you will master deploying them as containers to Kubernetes and OpenShift

Bootstrapping Microservices with Docker, Kubernetes, and Terraform Ashley Davis, 2021-01-23 Summary The best way to learn microservices development is to build something Bootstrapping Microservices with Docker Kubernetes and Terraform guides you from zero through to a complete microservices project including fast prototyping development and deployment You ll get your feet wet using industry standard tools as you learn and practice the practical skills you ll use for every microservices application Following a true bootstrapping approach you ll begin with a simple familiar application and build up your knowledge and skills as you create and deploy a real microservices project Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the technology Taking microservices from proof of concept to production is a complex multi step operation relying on tools like Docker Terraform and Kubernetes for packaging and deployment The best way to learn the process is to build a project from the ground up and that s exactly what you ll do with this book About the book In Bootstrapping Microservices with Docker Kubernetes and Terraform author Ashley Davis lays out a comprehensive approach to building microservices You ll start with a simple design and work layer by layer until you ve created your own video streaming application As you go you ll learn to configure cloud infrastructure with Terraform package microservices using Docker and deploy your finished project to a Kubernetes cluster What s inside Developing and testing microservices applications Working with cloud providers Applying automated testing Implementing infrastructure as code and setting up a continuous delivery pipeline Monitoring managing and troubleshooting About the reader Examples are in JavaScript No experience with microservices Kubernetes Terraform or Docker required About the author Ashley Davis is a software developer entrepreneur stock trader and the author of Manning s Data Wrangling with JavaScript Table of Contents 1 Why microservices 2 Creating your first microservice 3 Publishing your first microservice 4 Data management for microservices 5 Communication between microservices 6 Creating your production environment 7 Getting to continuous delivery 8 Automated testing for microservices 9 Exploring FlixTube 10 Healthy microservices 11

Pathways to scalability **Microservices Architecture Handbook** Stephen Fleming, 2018-04-29 Are you a non coder looking for insight into Microservices Architecture You may be a consultant Advisor Project Manager or a novice into IT industry after going through this guide you would be able to appreciate Microservices and other related concepts like SOA Monolith Architecture DevOps Docker Kubernetes etc You would also get to know about the leaders in Microservices adoption and impact it had on the overall agility and hyper growth of the adopters This book covers the complete lifecycle for your understanding like Integrating Testing Deploying Microservices and the Security concerns while deploying I am confident that after going through the book you would be able to navigate the discussion with any stakeholder and take your agenda ahead as per your role Additionally if you are new to the industry and looking for an application development job this book will help you to prepare with all the relevant information and understanding of the topic **Pro Java Microservices with Quarkus and Kubernetes** Nebrass Lamouchi, 2021 Build and design microservices using Java and the Red Hat Quarkus Framework This book will help you quickly get started with the features and concerns of a microservices architecture It will introduce Docker and Kubernetes to help you deploy your microservices You will be guided on how to install the appropriate tools to work properly For those who are new to enterprise development using Quarkus you will be introduced to its core principles and main features through a deep step by step tutorial For experts this book offers some recipes that illustrate how to split monoliths and implement microservices and deploy them as containers to Kubernetes By the end of reading this book you will have practical hands on experience of building microservices using Quarkus and you will master deploying them to Kubernetes You will Work with Quarkus and GraalVM Split a monolith using the domain driven design approach Implement the cloud and microservices patterns Rethink the deployment process Introduce containerization Docker and Kubernetes to your toolkit Boost microservices efficiency and performance with Azure Play with Quarkus and distributed application runtimes *Traefik API Gateway for Microservices* Rahul Sharma, Akshay Mathur, 2020-11-28 Use Traefik as a load balancer or a reverse proxy for microservices based architecture This book covers Traefik integration for microservices architecture concerns such as service discovery telemetry and resiliency The book focuses on building an in depth understanding of Traefik It starts with the fundamentals of Traefik including different load balancing algorithms available and failure handling for application resiliency Examples are included for the failure scenarios TLS support is explained including scenarios of TLS termination and TLS forwarding Traefik supports TLS termination using Let's Encrypt Traefik deployment in prominent microservices ecosystems is discussed including Docker and Kubernetes Traefik is a language neutral component This book presents examples of its deployment with Java based microservices The examples in the book show Traefik integration with Jaeger Zipkin Prometheus Grafana and FluentD Also covered is Traefik for Python based services and Java based services deployed in the Kubernetes cluster By the end of the book you will confidently know how to deploy and integrate Traefik into prominent microservices ecosystems What You Will Learn Understand Traefik basics

and its components Explore different load balancing scenarios and TLS termination Configure service discovery circuit breakers timeouts and throttling Monitor Traefik using Prometheus and request tracing Who This Book Is For Developers and project managers who have developed microservices and are deploying them in cloud and on premise environments with Kubernetes or Docker The book is not specifically written for any particular programming language The examples presented use Java or Python

Embracing the Track of Term: An Mental Symphony within **Docker Prise Pratique Architecture Micro Services**

In some sort of taken by displays and the ceaseless chatter of quick transmission, the melodic elegance and emotional symphony created by the prepared word often fade into the back ground, eclipsed by the constant noise and disruptions that permeate our lives. But, situated within the pages of **Docker Prise Pratique Architecture Micro Services** a charming fictional value filled with raw emotions, lies an immersive symphony waiting to be embraced. Crafted by a wonderful musician of language, that interesting masterpiece conducts viewers on a mental trip, well unraveling the hidden songs and profound affect resonating within each carefully constructed phrase. Within the depths with this poignant analysis, we will examine the book is main harmonies, analyze its enthralling writing fashion, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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