Kubernetes Microservices With Docker

Bootstrapping Microservices with Docker, Kubernetes, and TerraformAccelerating Development Velocity Using DockerMicroservices with Docker on Microsoft Azure (includes Content Update Program)Building Server-side and Microservices with GoHands-On Docker for Microservices with PythonLearn Microservices - ASP.NET Core and DockerHands-On Microservices with Spring Boot and Spring CloudMicroservices with Spring Boot and Spring CloudHands-On Swift 5 Microservices DevelopmentHands-On Cloud-Native Microservices with Jakarta EEBootstrapping Microservices, Second EditionMicroservices in .NET, Second EditionMicroservices and ContainersBuilding MicroservicesCloud Computing Demystified for Aspiring ProfessionalsKubernetes Microservices with DockerBootstrapping Microservices with Docker, Kubernetes, and TerraformMicroservices and ContainersSpring 5.0 MicroservicesMulesoft Certified Integration Architect Certification Prep Guide : 350 Questions & Answers Ashley Davis Kinnary Jangla Boris Scholl Dušan Stojanović Jaime Buelta Arnaud Weil Magnus Larsson Magnus Larsson Ralph Kuepper Luigi Fugaro Ashley Davis Christian Horsdal Gammelgaard Parminder Singh Kocher Ted Beacon David Santana Deepak Vohra Ashley Davis Parminder Singh Kocher Rajesh R V CloudRoar Consulting Services Bootstrapping Microservices with Docker, Kubernetes, and Terraform Accelerating Development Velocity Using Docker Microservices with Docker on Microsoft Azure (includes Content Update Program) Building Server-side and Microservices with Go Hands-On Docker for Microservices with Python Learn Microservices - ASP.NET Core and Docker Hands-On Microservices with Spring Boot and Spring Cloud Microservices with Spring Boot and Spring Cloud Hands-On Swift 5 Microservices Development Hands-On Cloud-Native Microservices with Jakarta EE Bootstrapping Microservices, Second Edition Microservices in .NET, Second Edition Microservices and Containers Building Microservices Cloud Computing Demystified for Aspiring Professionals Kubernetes Microservices with Docker Bootstrapping Microservices with Docker, Kubernetes, and Terraform Microservices and Containers Spring 5.0 Microservices Mulesoft Certified Integration Architect Certification Prep Guide : 350 Questions & Answers *Ashley Davis Kinnary Jangla Boris Scholl Dušan Stojanović Jaime Buelta Arnaud Weil Magnus Larsson Magnus Larsson Ralph Kuepper Luigi Fugaro Ashley Davis Christian Horsdal Gammelgaard Parminder Singh Kocher Ted Beacon David Santana Deepak Vohra Ashley Davis Parminder Singh Kocher Rajesh R V CloudRoar Consulting Services*

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

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

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 edition of this book which can be accessed with any internet connection to learn more visit informit com cup how to access the edition follow the instructions inside to learn how to register your book to access the free edition

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

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

you re a developer who knows nothing to microservices which is fine except that you need to start coding your next microservices based application using asp net core and docker don t worry i have you covered i ve been training hundreds of developers like you during 16 years and converted my experience into this book i know from experience teaching what takes more time to learn in microservices and will spend time only where appropriate plus this book is packed with exercises which build up into a full project you develop two interdependent microservices each exposing a crud json api you publish them in a docker repository and run

them in docker read this book and you can code your microservices within a week

apply microservices patterns to build resilient and scalable distributed systems key features understand the challenges of building large scale microservice landscapes build cloud native production ready microservices with this comprehensive guide discover how to get the best out of spring cloud kubernetes and istio when used together book descriptionmicroservices architecture allows developers to build and maintain applications with ease and enterprises are rapidly adopting it to build software using spring boot as their default framework with this book you ll learn how to efficiently build and deploy microservices using spring boot this microservices book will take you through tried and tested approaches to building distributed systems and implementing microservices architecture in your organization starting with a set of simple cooperating microservices developed using spring boot you ll learn how you can add functionalities such as persistence make your microservices reactive and describe their apis using swagger openapi as you advance you ll understand how to add different services from spring cloud to your microservice system the book also demonstrates how to deploy your microservices using kubernetes and manage them with istio for improved security and traffic management finally you ll explore centralized log management using the efk stack and monitor microservices using prometheus and grafana by the end of this book you ll be able to build microservices that are scalable and robust using spring boot and spring cloud what you will learn build reactive microservices using spring boot develop resilient and scalable microservices using spring cloud use oauth 2 0 oidc and spring security to protect public apis implement docker to bridge the gap between development testing and production deploy and manage microservices using kubernetes apply istio for improved security observability and traffic management who this book is for this book is for java and spring developers and architects who want to learn how to break up their existing monoliths into microservices and deploy them either on premises or in the cloud using kubernetes as a container orchestrator and istio as a service mesh no familiarity with microservices architecture is required to get started with this book

2025 edition create and deploy production grade microservices based applications with this edition fully updated to the latest versions of spring boot java and spring cloud key features build cloud native production ready microservices and stay ahead of the curve understand the challenges of building large scale microservice architectures learn how to get the best out of the latest updates including java spring boot spring cloud kubernetes and istio purchase of the print or kindle book includes a free pdf ebook book descriptiondo you want to build and deploy microservices but are unsure where to begin check out the fully updated 2025 edition of microservices with spring boot and spring cloud drawing from magnus decades of experience you ll start with simple microservices and progress to complex distributed applications learning essential functionality and deploying microservices using kubernetes and istio along the way this book covers java 24 spring boot 3 5 and spring cloud 2025 featuring updated code examples and replacing deprecated apis you ll get a clear understanding of spring s ahead of time aot module observability distributed tracing and helm for kubernetes packaging the chapters show you how to use docker compose to run microservices with databases and messaging services and deploy microservices on kubernetes with istio you ll also explore persistence resilience reactive microservices and api documentation with openapi as well as learn service discovery with netflix eureka edge servers with spring cloud gateway and monitoring with prometheus grafana and the efk stack by the end of this book you ll be able to

confidently build scalable microservices using spring boot and spring cloud what you will learn build reactive microservices using spring boot develop resilient and scalable microservices using spring cloud use oauth and spring security to protect public apis implement docker to bridge the gap between development testing and production deploy and manage microservices with kubernetes apply istio for improved security observability and traffic management write and run automated microservice tests with junit test containers gradle and bash use spring aot and graalvm to compile your microservices into native executables utilize micrometer for distributed tracing who this book is for if you re a java or spring boot developer learning how to build microservice landscapes from scratch then this book is for you prior experience in building apps with java or spring boot will help you get started with this book

learn to design and deploy fully functioning microservices for your applications from scratch using swift docker and aws key featuresunderstand server side swift development concepts for building your first microservicebuild microservices using vapor 4 and deploy them to the cloud using dockerlearn effective techniques for enhancing maintainability and stability of your swift applicationsbook description the capabilities of the swift programming language are extended to server side development using popular frameworks such as vapor this enables swift programmers to implement the microservices approach to design scalable and easy to maintain architecture for ios macos ipados and watchos applications this book is a complete guide to building microservices for ios applications you ll start by examining swift and vapor as backend technologies and compare them to their alternatives the book then covers the concept of microservices to help you get started with developing your first microservice throughout this book you ll work on a case study of writing an e commerce backend as a microservice application you ll understand each microservice as it is broken down into details and written out as code throughout the book you ll also become familiar with various aspects of server side development such as scalability database options and information flow for microservices that are unwrapped in the process as you advance you ll get to grips with microservices testing and see how it is different from testing a monolith application along the way you ll explore tools such as docker postman and amazon services by the end of the book you ll be able to build a ready to deploy application that can be used as a base for future applications what you will learngrasp server side swift development concepts using practical examplesunderstand the microservices approach and why swift is a great choice for building microservicesdesign and structure mobile and web applications using microservices architecturediscover the available database options and understand which one to choosescale and monitor your microservicesuse postman to automate testing for your microservices apiwho this book is for the book is for ios ipados and macos developers and swift programmers who want to understand how swift can be used for building microservices the book assumes familiarity with swift programming and the fundamentals of the web including how apis work

discover how cloud native microservice architecture helps you to build dynamically scalable applications by using the most widely used and adopted runtime environments key featuresbuild robust cloud native applications using a variety of toolsunderstand how to configure both amazon services aws and docker clouds for high availabilityexplore 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 learnintegrate reactive principles in microprofile microservices architectureexplore the 12 factors app paradigm and its implicationsget the best out of java versions 8 and 9 to implement a microservice based on thorntailunderstand what openshift is and why it is so important for an elastic architecturebuild a linux container image using docker and scale the application using kubernetesimplement various patterns such as circuit breaker and bulkheadsget 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

build a microservices application from scratch using industry standard tools and battle tested best practices the best way to learn microservices development is to build something bootstrapping microservices with docker kubernetes github actions and terraform second edition guides you from zero through to a complete microservices project including fast prototyping development and deployment in bootstrapping microservices second edition you ll get hands on experience with microservices development skills like creating configuring and running a microservice with node js building and publishing a microservice using docker applying automated testing running a microservices application in development with docker compose deploying microservices to a production kubernetes cluster implementing infrastructure as code and setting up a continuous delivery pipeline monitoring managing and troubleshooting bootstrapping microservices with docker kubernetes github action and terraform has helped thousands of developers create their first microservices applications this fully revised second edition introduces the industry standard tools and practical skills you ll use for every microservices application author ashley davis s friendly advice and guidance helps cut down the learning curve for docker terraform and kubernetes showing you just what you need to know to start building about the technology taking a microservices application from proof of concept to production requires many steps and a host of tools like kubernetes terraform and github actions but where do you start with clear practical introductions to each concept and tool this book guides you hands on through designing and building your first microservices application about the book bootstrapping microservices second edition is your microservices mentor it teaches you to use industry standard tools to create a working video streaming application from the ground up you ll learn the pillars of cloud native development including terraform for configuration docker for packaging and a basic kubernetes deployment plus this second edition includes coverage of github actions continuous delivery and infrastructure as code what s inside deploying microservices to kubernetes automated testing and continuous delivery monitoring managing and troubleshooting about the reader examples are in javascript and node no experience with microservices required about the author ashley

davis is a software craftsman entrepreneur and author with over 25 years of experience in software development from coding to managing teams to founding companies 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 the road to production 7 infrastructure as code 8 continuous deployment 9 automated testing for microservices 10 shipping flixtube 11 healthy microservices 12 pathways to scalability

microservices in net second edition teaches you to build and deploy microservices using asp net and azure services summary in microservices in net second edition you will learn how to build scalable microservices that are reliable in production optimize microservices for continuous delivery design event based collaboration between microservices deploy microservices to kubernetes set up kubernetes in azure microservices in net second edition is a comprehensive guide to building microservice applications using the net stack after a crystal clear introduction to the microservices architectural style it teaches you practical microservices development skills using asp net this second edition of the bestselling original has been revised with up to date tools for the net ecosystem and more new coverage of scoping microservices and deploying to kubernetes purchase of the print book includes a free ebook in pdf kindle and epub formats from manning publications about the technology microservice architectures connect independent components that must work together as a system integrating new technologies like docker and kubernetes with microsoft s familiar asp net framework and azure cloud platform enables net developers to create and manage microservices efficiently about the book microservices in net second edition teaches you to build and deploy microservices using asp net and azure services it lays out microservice architecture simply and then guides you through several real world projects such as building an ecommerce shopping cart in this fully revised edition you ll learn about scoping microservices deploying to kubernetes and operations concerns like monitoring logging and security what s inside optimize microservices for continuous delivery design event based collaboration between microservices deploy microservices to kubernetes set up kubernetes in azure about the reader for c developers no experience with microservices required about the author christian horsdal is an independent consultant with more than 20 years of experience building projects from large scale microservice systems to tiny embedded systems table of contents part 1 getting started with microservices 1 microservices at a glance 2 a basic shopping cart microservice 3 deploying a microservice to kubernetes part 2 building microservices 4 identifying and scoping microservices 5 microservice collaboration 6 data ownership and data storage 7 designing for robustness 8 writing tests for microservices part 3 handling cross cutting concerns building a reusable microservice platform 9 cross cutting concerns monitoring and logging 10 securing microservice to microservice communication 11 building a reusable microservice platform part 4 building applications 12 creating applications over microservices

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

gain in depth knowledge of cloud computing concepts and apply them to accelerate your career in any cloud engineering role key featuresget to grips with key cloud computing concepts cloud service providers and best practicesexplore demonstrations for cloud computing models using real world examplesadopt the self paced learning strategy and get industry ready for cloud engineering rolespurchase of the print or kindle book includes a free ebook in the pdf formatbook description if you want to upskill yourself in cloud computing domains to thrive in the it industry then you ve come to the right place cloud computing demystified for aspiring professionals helps you to master cloud computing essentials and important technologies offered by cloud service providers needed to succeed in a cloud centric job role this book begins with an overview of transformation from traditional to modern day cloud computing infrastructure and various types and models of cloud computing you ll learn how to implement secure virtual networks virtual machines and data warehouse resources including data lake services used in big data analytics as well as when to use sql and nosql databases and how to build microservices using multi cloud kubernetes services across aws microsoft azure and google cloud you ll also get step by step demonstrations of infrastructure platform and software cloud services and optimization recommendations derived from certified industry experts using hands on tutorials self assessment questions and real world case studies by the end of this book you ll be ready to successfully implement cloud computing standardized concepts services and best practices in your workplace what you will learngain insights into cloud computing essentials and public private hybrid and multi cloud deployment modelsexplore core cloud computing services such as iaas paas and saasdiscover major public cloud providers such as aws microsoft and googleunlock the power of iaas paas and saas with aws azure and gcpcreate secure networks containers kubernetes compute databases and api services on clouddevelop industry based cloud solutions using real world examplesget recommendations on exam preparation for cloud accreditationswho this book is for the book is for aspiring cloud engineers as well as college graduates it enthusiasts and beginner level cloud practitioners looking to get into cloud computing or transforming their career and upskilling themselves in a cloud engineering role in any industry a basic understanding of networking database development and data analysis concepts and experience in programming languages such as python and c will help you get the most out of this book

start using kubernetes in complex big data and enterprise applications including docker containers starting with installing kubernetes on a single node the book introduces kubernetes with a simple hello example and discusses using environment variables in kubernetes next kubernetes microservices with docker discusses using kubernetes with all major groups of technologies such as relational databases nosql databases and in the apache hadoop ecosystem the book concludes with using multi container pods and installing kubernetes on a

multi node cluster div a concise but clear introduction to containers docker and kubernetes using simple real world examples to pass on the core concepts via repetition and is a very useful enabler 10 10 dave hay mbcs citp review for bcs the chartered institute for it bcs org content conwebdoc 58512 what you will learn install kubernetes on a single node set environment variables create multi container pods using docker use volumes use kubernetes with the apache hadoop ecosystem nosql databases and rdbmss install kubernetes on a multi node cluster who this book is for application developers including apache hadoop developers database developers and nosql developers

this book lays out a comprehensive approach to building microservices youll start with a simple design and work layer by layer until youve created your own video streaming application as you go youll learn to configure cloud infrastructure with terraform package microservices using docker and deploy your finished project to a kubernetes cluster

transition to microservices and devops to transform your software development effectiveness thanks to the tech sector s latest game changing innovations the internet of things iot software enabled networking and software as a service saas to name a few there is now a seemingly insatiable demand for platforms and architectures that can improve the process of application development and deployment in microservices and containers longtime systems architect and engineering team leader parminder kocher analyzes two of the hottest new technology trends microservices and containers together as kocher demonstrates microservices and docker containers can bring unprecedented agility and scalability to application development and deployment especially in large complex projects where speed is crucial but small errors can be disastrous learn how to leverage microservices and docker to drive modular architectural design on demand scalability application performance and reliability time to market code reuse and exponential improvements in devops effectiveness kocher offers detailed guidance and a complete roadmap for transitioning from monolithic architectures as well as an in depth case study that walks the reader through the migration of an enterprise class soa system understand how microservices enable you to organize applications into standalone components that are easier to manage update and scale decide whether microservices and containers are worth your investment and manage the organizational learning curve associated with them apply best practices for interprocess communication among microservices migrate monolithic systems in an orderly fashion understand docker containers installation and interfaces network orchestrate and manage docker containers effectively use docker to maximize scalability in microservices based applications apply your learning with an in depth hands on case study whether you are a software architect developer or systems professional looking to move on from older approaches or a manager trying to maximize the business value of these technologies microservices and containers will be an invaluable addition to your library register your product at informit com register for convenient access to downloads updates and or corrections as they become available

a practical comprehensive and user friendly approach to building microservices in spring about this book update existing applications to integrate reactive streams released as a part of spring 5 0 learn how to use docker and mesos to push the boundaries and build successful microservices upgrade the capability model to implement scalable microservices who this book is for this book is ideal for spring developers who want to build cloud ready internet scale applications and simple restful services to meet modern business demands what you will learn

familiarize yourself with the microservices architecture and its benefits find out how to avoid common challenges and pitfalls while developing microservices use spring boot and spring cloud to develop microservices handle logging and monitoring microservices leverage reactive programming in spring 5 0 to build modern cloud native applications manage internet scale microservices using docker mesos and marathon gain insights into the latest inclusion of reactive streams in spring and make applications more resilient and scalable in detail the spring framework is an application framework and inversion of the control container for the java platform the framework s core features can be used by any java application but there are extensions to build web applications on top of the java ee platform this book will help you implement the microservice architecture in spring framework spring boot and spring cloud written to the latest specifications of spring that focuses on reactive programming you ll be able to build modern internet scale java applications in no time the book starts off with guidelines to implement responsive microservices at scale next you will understand how spring boot is used to deploy serverless autonomous services by removing the need to have a heavyweight application server later you ll learn how to go further by deploying your microservices to docker and managing them with mesos by the end of the book you will have gained more clarity on the implementation of microservices using spring framework and will be able to use them in internet scale deployments through real world examples style and approach the book takes a step by step approach on developing microservices using spring framework spring boot and a set of spring cloud components that will help you scale your applications

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