

Spring Boot How To Get Started And Build A Microservice

Building Microservices with Spring Boot Building Microservices with Node.js Microservices Spring Microservices in Action, Second Edition Spring Microservices in Action Bootstrapping Microservices with Docker, Kubernetes, and Terraform Microservices Security in Action Spring: Microservices with Spring Boot Spring Boot Microservices Development Cookbook Building Server-side and Microservices with Go Natural Language Processing in Action, Second Edition Building Microservices with Go Microservices with Spring Boot and Spring Cloud Building Microservices Spring Boot 2 Building Microservices with JavaScript Microservices: Patterns and Applications Building Microservices with ASP.NET Core Hands-On Swift 5 Microservices Development Engin Yöyen Daniel Kapexhiu Eberhard Wolff John Carnell John Carnell Ashley Davis Prabath Siriwardena Ranga Rao Karanam Jens Boje Paul Osman Dušan Stojanović Hobson Lane Nic Jackson Magnus Larsson Sam Newman Jens Boje Diogo Resende Lucas Krause Kevin Hoffman Ralph Kuepper

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this book is designed to give you the complete picture of how you can build microservices with spring boot existing book regarding microservice are helpful to grasp to concepts but there are no practical examples of how to accomplish it the objective of the book is to use spring and spring boot to show practical approaches as well a reference guide to spring boot the way we build software has changed dramatically the word cloud is everywhere most software

companies are either using available providers such as aws joyent rackspace or trying to build their own private cloud the tendency of building big massive software is also changing now the trend is to build smaller software which does one thing and it does it well it is called microservices a small discrete isolated stateless lightweight application that can be deployed separately from other services that depend on it the architectural style which refers to an approach to structuring a single software application as a group of small services each running in its own process and communicating with lightweight mechanisms spring as a mature framework does provide most of the necessary modules to accomplish what is needed to build a microservice architecture so as a developer you can add necessary modules wire it via dependency injection and start using it without changing the context with spring you can connect relational or nosql datastore work with amqp build your authentication and authorization use configuration management circuit breakers intelligent routing etc most of the technologies you may need for developing microservices are provided via spring the book will cover topics such as essentials spring boot http programming spring cloud config service discovery client side load balancing distributed messaging asynchronous http programming routing api gateways etc

venture into microservices with node js uncovering step by step roadmaps insightful demonstrations and cutting edge techniques to build robust web applications key features explore microservices architecture and implement it using node js for robust web applications follow clear practical examples and real world use cases to apply your knowledge and build your skills excel in the world of software development and tackle complex challenges with confidence purchase of the print or kindle book includes a free pdf ebook book description immerse yourself in the world of microservices with this guide to migration from a monolithic architecture to microservices with this book you ll acquire a deep understanding of microservices architecture and apply it confidently in your web application projects as you progress you ll be guided through the process of creating a simple application and incorporating the node js framework into it along with its commonly used libraries you ll learn how the framework operates how to configure it and how to develop handlers for the web framework and explore how to deploy your application to a production server get to grips with the intricacies of javascript and node js and find out how to approach microservices in node js implement them effectively and integrate restful apis gain insights into service to service authentication and authorization and learn how to work with databases and caching as well as with monitoring and logging in microservices with node js by the end of this microservices book you ll be able to develop a web app using the node js framework configure it extend it using libraries available for this framework and launch it using best practices what you will learn design domain oriented microservices using domain driven design ddd understand collaboration techniques for inter microservice communication and learn how to design an api gateway automate microservice integration and deployment split a monolith safely into

microservices and understand how to test microservices effectively use and implement microservices in kubernetes and docker environments get to grips with best practices for maintaining microservices at scale who this book is for this book is for backend developers full stack developers software architects and frontend developers who want to venture into the world of backend development and extend their capabilities a fundamental understanding of the javascript ecosystem will be helpful but not necessary as this book will cover the essentials of backend development javascript programming and node js

the most complete practical and actionable guide to microservices going beyond mere theory and marketing hype eberhard wolff presents all the knowledge you need to capture the full benefits of this emerging paradigm he illuminates microservice concepts architectures and scenarios from a technology neutral standpoint and demonstrates how to implement them with today s leading technologies such as docker java spring boot the netflix stack and spring cloud the author fully explains the benefits and tradeoffs associated with microservices and guides you through the entire project lifecycle development testing deployment operations and more you ll find best practices for architecting microservice based systems individual microservices and nanoservices each illuminated with pragmatic examples the author supplements opinions based on his experience with concise essays from other experts enriching your understanding and illuminating areas where experts disagree readers are challenged to experiment on their own the concepts explained in the book to gain hands on experience discover what microservices are and how they differ from other forms of modularization modernize legacy applications and efficiently build new systems drive more value from continuous delivery with microservices learn how microservices differ from soa optimize the microservices project lifecycle plan visualize manage and evolve architecture integrate and communicate among microservices apply advanced architectural techniques including cqrs and event sourcing maximize resilience and stability operate and monitor microservices in production build a full implementation with docker java spring boot the netflix stack and spring cloud explore nanoservices with amazon lambda osgi java ee vert x erlang and seneca understand microservices impact on teams technical leaders product owners and stakeholders managers will discover better ways to support microservices and learn how adopting the method affects the entire organization developers will master the technical skills and concepts they need to be effective architects will gain a deep understanding of key issues in creating or migrating toward microservices and exactly what it will take to transform their plans into reality

spring microservices in action second edition teaches you to build microservice based applications using java and spring summary by dividing large applications into separate self contained units microservices are a great step toward reducing complexity and increasing flexibility spring microservices in action second edition teaches you how to build microservice based applications using java and the spring platform this second edition is fully updated for the

latest version of spring with expanded coverage of api routing with spring cloud gateway logging with the elk stack metrics with prometheus and grafana security with the hashicorp vault and modern deployment practices with kubernetes and istio purchase of the print book includes a free ebook in pdf kindle and epub formats from manning publications about the technology building and deploying microservices can be easy in spring libraries like spring boot spring cloud and spring cloud gateway reduce the boilerplate code in rest based services they provide an effective toolbox to get your microservices up and running on both public and private clouds about the book spring microservices in action second edition teaches you to build microservice based applications using java and spring you ll start by creating basic services then move to efficient logging and monitoring learn to refactor java applications with spring s intuitive tooling and master api management with spring cloud gateway you ll even deploy spring cloud applications with aws and kubernetes what s inside microservice design principles and best practices configuration with spring cloud config and hashicorp vault client side resiliency with resilience4j and spring cloud load balancer metrics monitoring with prometheus and grafana distributed tracing with spring cloud sleuth zipkin and elk stack about the reader for experienced java and spring developers about the author john carnell is a senior cloud engineer with 20 years of java experience illary huaylupo sánchez is a software engineer with over 13 years of experience table of contents 1 welcome to the cloud spring 2 exploring the microservices world with spring cloud 3 building microservices with spring boot 4 welcome to docker 5 controlling your configuration with the spring cloud configuration server 6 on service discovery 7 when bad things happen resiliency patterns with spring cloud and resilience4j 8 service routing with spring cloud gateway 9 securing your microservices 10 event driven architecture with spring cloud stream 11 distributed tracing with spring cloud sleuth and zipkin 12 deploying your microservices

summary spring microservices in action teaches you how to build microservice based applications using java and the spring platform purchase of the print book includes a free ebook in pdf kindle and epub formats from manning publications about the technology microservices break up your code into small distributed and independent services that require careful forethought and design fortunately spring boot and spring cloud simplify your microservice applications just as the spring framework simplifies enterprise java development spring boot removes the boilerplate code involved with writing a rest based service spring cloud provides a suite of tools for the discovery routing and deployment of microservices to the enterprise and the cloud about the book spring microservices in action teaches you how to build microservice based applications using java and the spring platform you ll learn to do microservice design as you build and deploy your first spring cloud application throughout the book carefully selected real life examples expose microservice based patterns for configuring routing scaling and deploying your services you ll see how spring s intuitive tooling can help augment and refactor existing applications with

micro services what s inside core microservice design principles managing configuration with spring cloud config client side resiliency with spring hystrix and ribbon intelligent routing using netflix zuul deploying spring cloud applications about the reader this book is written for developers with java and spring experience about the author john carnell is a senior cloud engineer with twenty years of experience in java table of contents welcome to the cloud spring building microservices with spring boot controlling your configuration with spring cloud configuration server on service discovery when bad things happen client resiliency patterns with spring cloud and netflix hystrix service routing with spring cloud and zuul securing your microservices event driven architecture with spring cloud stream distributed tracing with spring cloud sleuth and zipkin deploying your microservices

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 flitube 10 healthy microservices 11 pathways to scalability

a complete guide to the challenges and solutions in securing microservices architectures massimo siani findynamic key features secure microservices infrastructure and code monitoring access control and microservice to microservice communications deploy securely using kubernetes docker and the istio service mesh hands on examples and exercises using java and spring boot purchase of the print book includes a free ebook in pdf kindle and epub formats from manning publications microservices security in action teaches you how to address microservices specific security challenges throughout the system this practical guide includes plentiful hands on exercises using industry leading open source tools and examples using java and spring boot about the book design and implement security into your microservices from the start microservices security in action teaches you to assess and address security challenges at every level of a microservices application from apis to infrastructure you ll find effective solutions to common security problems including throttling and monitoring access control at the api gateway and microservice to microservice communication detailed java code samples exercises and real world business use cases ensure you can put what you ve learned into action immediately what you will learn microservice security concepts edge services with an api gateway deployments with docker kubernetes and istio security testing at the code level communications with http grpc and kafka this book is written for for experienced microservices developers with intermediate java skills about the author prabath siriwardena is the vice president of security architecture at wso2 nuwan dias is the director of api architecture at wso2 they have designed secure systems for many fortune 500 companies table of contents part 1 overview 1 microservices security landscape 2 first steps in securing microservices part 2 edge security 3 securing north south traffic with an api gateway 4 accessing a secured microservice via a single page application 5 engaging throttling monitoring and access control part 3 service to service communications 6 securing east west traffic with certificates 7 securing east west traffic with jwt 8 securing east west traffic over grpc 9 securing reactive microservices part 4 secure deployment 10 conquering container security with docker 11 securing microservices on kubernetes 12 securing microservices with istio service mesh part 5 secure development 13 secure coding practices and automation

unlock the power of spring boot to build and deploy production ready microservices key features get to know the advanced features of spring boot in order to develop and monitor applications use spring cloud to deploy and manage microservices on the cloud look at embedded servers and deploy a test application to a paas cloud platform embedded with assessments that will help you revise the concepts you have learned in this book book description microservices helps in decomposing applications into small services and move away from a single monolithic artifact it helps in building systems that are scalable flexible and high resilient spring boot helps in building rest oriented production grade microservices this book is a quick learning guide on how to build monitor and deploy microservices with spring boot you ll be first familiarized with spring boot before delving into building microservices you will learn

how to document your microservice with the help of spring rest docs and swagger documentation you will then learn how to secure your microservice with spring security and oauth2 you will deploy your app using a self contained http server and also learn to monitor a microservice with the help of spring boot actuator this book is ideal for java developers who knows the basics of spring programming and want to build microservices with spring boot this book is embedded with useful assessments that will help you revise the concepts you have learned in this book what you will learn use spring initializr to create a basic spring project build a basic microservice with spring boot implement caching and exception handling secure your microservice with spring security and oauth2 deploy microservices using self contained http server monitor your microservices with spring boot actuator learn to develop more effectively with developer tools who this book is for this book is aimed at java developers who knows the basics of spring programming and want to build microservices with spring boot

résumé with an actionable and hands on approach this custom tailored resource gives you a head start in learning how to build microservices with spring boot by leading you step by step through the process

quickly learn and employ practical methods for developing microservices key features get to grips with microservice architecture to build enterprise ready applications adopt the best practices to find solutions to specific problems monitor and manage your services in production book description microservices have become a popular way to build distributed systems that power modern web and mobile apps deploying your application as a suite of independently deployable modular and scalable services has many benefits in this book you ll learn to employ microservices in order to make your application more fault tolerant and easier to scale and change using an example driven approach microservice development cookbook introduces you to the microservice architectural style you ll learn how to transition from a traditional monolithic application to a suite of small services that interact to provide smooth functionality to your client applications you ll also learn about the patterns used to organize services so you can optimize request handling and processing and see how to handle service to service interactions you ll then move on to understanding how to secure microservices and add monitoring in order to debug problems this book also covers fault tolerance and reliability patterns that help you use microservices to isolate failures in your applications by the end of the book you ll be able to work with a team to break a large monolithic codebase into independently deployable and scalable microservices you ll also study how to efficiently and effortlessly manage a microservice based architecture what you will learn learn how to design microservice based systems create services that fail without impacting users monitor your services to perform debugging and create observable systems manage the security of your services

create fast and reliable deployment pipelines manage multiple environments for your services simplify the local development of microservice based systems who this book is for microservice development cookbook is for developers who would like to build effective and scalable microservices basic knowledge of the microservices architecture is assumed

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

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your one stop guide to the common patterns and practices showing you how to apply these using the go programming language about this book this short concise and practical guide is packed with real world examples of building microservices with go it is easy to read and will benefit smaller teams who want to extend the functionality of their existing systems using this practical approach will save your money in terms of maintaining a monolithic architecture and demonstrate capabilities in ease of use who this book is for you should have a working knowledge of programming in go including writing and compiling basic applications however no knowledge of restful architecture microservices or web services is expected if you are looking to apply techniques to your own

projects taking your first steps into microservice architecture this book is for you what you will learn plan a microservice architecture and design a microservice write a microservice with a restful api and a database understand the common idioms and common patterns in microservices architecture leverage tools and automation that helps microservices become horizontally scalable get a grounding in containerization with docker and docker compose which will greatly accelerate your development lifecycle manage and secure microservices at scale with monitoring logging service discovery and automation test microservices and integrate api tests in go in detail microservice architecture is sweeping the world as the de facto pattern to build web based applications golang is a language particularly well suited to building them its strong community encouragement of idiomatic style and statically linked binary artifacts make integrating it with other technologies and managing microservices at scale consistent and intuitive this book will teach you the common patterns and practices showing you how to apply these using the go programming language it will teach you the fundamental concepts of architectural design and restful communication and show you patterns that provide manageable code that is supportable in development and at scale in production we will provide you with examples on how to put these concepts and patterns into practice with go whether you are planning a new application or working in an existing monolith this book will explain and illustrate with practical examples how teams of all sizes can start solving problems with microservices it will help you understand docker and docker compose and how it can be used to isolate microservice dependencies and build environments we finish off by showing you various techniques to monitor test and secure your microservices by the end you will know the benefits of system resilience of a microservice and the advantages of go stack style and approach the step by step tutorial focuses on building microservices each chapter expands upon the previous one teaching you the main skills and techniques required to be a successful microservice practitioner

a step by step guide to creating and deploying production quality microservices based applications key features build cloud native production ready microservices with this comprehensively updated guide understand the challenges of building large scale microservice architectures learn how to get the best out of spring cloud kubernetes and istio in combination book description with this book you ll learn how to efficiently build and deploy microservices this new edition has been updated for the most recent versions of spring java kubernetes and istio demonstrating faster and simpler handling of spring boot local kubernetes clusters and istio installation the expanded scope includes native compilation of spring based microservices support for mac and windows with wsl2 and an introduction to helm 3 for packaging and deployment a revamped security chapter now follows the oauth 2 1 specification and makes use of the newly launched spring authorization server from the spring team starting with a set of simple cooperating microservices you ll add persistence and resilience make your microservices reactive and document their apis using openapi you ll understand how fundamental design patterns are applied to add important

functionality such as service discovery with netflix eureka and edge servers with spring cloud gateway you ll learn how to deploy your microservices using kubernetes and adopt istio you ll explore centralized log management using the elasticsearch fluentd and kibana efk stack and monitor microservices using prometheus and grafana by the end of this book you ll be confident in building 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 2.1 oidc 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 testcontainers gradle and bash who this book is for if you are a java or spring boot developer who wants to learn how to build microservice landscapes from scratch this book is for you no familiarity with microservices architecture is required

distributed systems have become more fine grained in the past 10 years shifting from code heavy monolithic applications to smaller self contained microservices but developing these systems brings its own set of headaches with lots of examples and practical advice this book takes a holistic view of the topics that system architects and administrators must consider when building managing and evolving microservice architectures microservice technologies are moving quickly author sam newman provides you with a firm grounding in the concepts while diving into current solutions for modeling integrating testing deploying and monitoring your own autonomous services you ll follow a fictional company throughout the book to learn how building a microservice architecture affects a single domain discover how microservices allow you to align your system design with your organization s goals learn options for integrating a service with the rest of your system take an incremental approach when splitting monolithic codebases deploy individual microservices through continuous integration examine the complexities of testing and monitoring distributed services manage security with user to service and service to service models understand the challenges of scaling microservice architectures

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though using a standard maven project structure together and i will explain you the steps and libraries involved on the go you must know java you learn best by coding the way i love learning too and not by reading fluffy compendiums or watching 10 hours and more of videos sure you can do that but any developer following my guide will be way ahead of you before you are even halfway through that video course what you will build we build a microservice for storing comments and providing a rest interface for interacting with the data the sample application is modeled after a real production application to guide you through building your first spring boot application what you will learn what problem the spring framework actually solves the basics of the spring framework aka core how to build a microservice with spring boot 2 how to work with a relational database using the spring data jpa framework how to write the rest api using spring mvc how to create a service layer and integrate a legacy library using its own spring applicationcontext in an xml file how to test the application a simple way to secure your application how to use monitoring and health check out of the box with spring boot how to deploy your application how to navigate in the project with maven you must have experience with java as we are not covering java basics everything else we use is covered in the guide if you have questions do not hesitate to contact me using the email address at the end of the book i ll answer your questions and improve the book with your feedback promised

explore microservices by developing with express deploying with docker and scaling with swarm and kubernetes key features build cloud native microservices using only node and express write clean and maintainable code with javascript for improved microservices development learn ways to monitor and manage your services in a production environment book description microservices are a popular way to build distributed systems that power modern web and mobile apps with the help of this learning path you ll learn how to develop your applications as a suite of independently deployable and scalable services using an example driven approach this learning path will uncover how you can dismantle your monolithic application and embrace microservice architecture right from architecting your services and modeling them to integrating them into your application you ll also explore ways to overcome challenges in testing and deploying these services by setting up deployment pipelines that break down the application development process into several stages you ll study serverless architecture for microservices and understand its benefits furthermore this learning path delves into the patterns used for organizing services helping you optimize request handling and processing you ll then move on to learn the fault tolerance and reliability patterns that help you use microservices to isolate failures in your applications by the end of this learning path you ll have the skills necessary to build enterprise ready applications using microservices this learning path includes content from the following packt products hands on microservices with node js by diogo resende microservices development cookbook by paul osman what you will learn use docker and swarm for continuous deployment and scaling build and deploy

cloud native microservices and avoid vendor lock in explore different service architectures such as hydra and seneca create services that don't impact users upon failure monitor your services to perform debugging and create observable systems develop fast and reliable deployment pipelines manage multiple environments for your services simplify the local development of microservice based systems who this book is for if you're a javascript developer looking to put your skills to work by building microservices and moving away from the monolithic architecture this book is for you to understand the concepts explained in this learning path you must have knowledge of node.js and be familiar with the microservices architecture

microservices patterns and applications microservices are the next big thing in designing scalable easy to maintain applications this book will explain everything you need to know about microservices to make your next project successful you will learn microservice patterns this book goes into great detail on all of the microservice architecture patterns including monolithic architecture microservice architecture service discovery gateway proxy api orchestrated api service registration cqrs and event sourcing bulk heads circuit breaker message broker the most important thing about microservices is when and how to apply a pattern along with explaining what choices you must make and why every system is different so it is vital to understand a lot of basics before designing and developing your own microservices from monolithic to microservice the basics here are how to decompose a monolithic system into a microservice and this book shows exactly how this process is completed service oriented architecture to microservice a more common need is to migrate your system from a soa based architecture to microservices there are many advantages and the process is not as straightforward as you would expect new microservices if you want to build a brand new system and leverage the power of microservices this book outlines the pitfalls strategies and tactics needed to make this work for you it is not as easy as it would seem and you will understand why after reading this book microservice technologies you'll learn about what technologies you need to use and understand for successful microservices virtualization containers docker and rocket databases security json tokens logging exceptions caching timeouts scalability cap cube platform as a service paas cloud architecture technology agnostic why microservices isn't this just the latest buzz word while microservices may be a recent trend and is gaining traction across the industry as a silver bullet it is not a silver bullet in this book you will learn important reasons why you cannot treat microservices or any technology or technique as a silver bullet there are tradeoffs and advantages to every architectural decision you will understand the details by reading this book most importantly you will understand how microservices is what soa had promised and never delivered author lucas krause lucas has been in the technology industry as a consultant contractor architect engineer and manager and understands and has used microservices successfully to solve his client problems philosophy of microservices you'll learn about what the philosophy of microservices is and why this is important it is critical to understand the philosophy as that is what makes microservices work at so many other companies

and solutions if you are looking to gain an understanding of microservices along with the patterns and application around the process to implementing them than this is the book for you ready to learn about microservices let s go want to be brought up to speed on the latest innovations and techniques with microservices want to understand why microservices what makes microservices so special what are the potential pitfalls why are microservices so popular how do i make my projects successful

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