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# Php Microservices

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Mastering PHP  
Building Microservices with .NET Core  
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Building Secure PHP Applications  
ICoSHIP 2023  
PHP Notes For Professionals  
Monolith to Microservices  
From PHP to Ruby on Rails

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## TORRES MALONE

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### Mastering PHP Packt Publishing Ltd

Learn to design and deploy fully functioning microservices for your applications from scratch using Swift, Docker, and AWS Key Features Understand server-side Swift development concepts for building your first microservice Build microservices using Vapor 4 and deploy them to the cloud using Docker Learn effective techniques for enhancing maintainability and stability of your Swift applications Book 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 Web 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 learn Grasp server-side Swift development concepts using practical examples Understand the microservices approach and why Swift is a great choice for building microservices Design and structure mobile and web applications using microservices architecture Discover the available database options and understand which one to choose Scale and monitor your microservices Use Postman to automate testing for your microservices API Who 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.

*Building Microservices with .NET Core* Apress

PHP 8+: Elevate your web development skills to new heights KEY FEATURES ● Explore new features and enhancements of PHP 8+. ● Enhance your PHP 8 skills with tips and tricks. ● Practical insights on error handling, databases, and beyond. DESCRIPTION This comprehensive guide starts with the fundamentals and gradually progresses to advanced techniques. It provides a structured learning path with clear explanations, practical examples, and hands-on exercises, equipping you with the skills to build modern websites and interactive web applications. Explore what is new in PHP 8 with

this comprehensive guide, excellent for web developers looking to start or refresh their skills and adopt the latest advances in PHP. From the fundamentals to advanced features, this book covers everything you need to know about PHP 8, including migrating from an old version of PHP, object-oriented programming, error handling, and database integration. With practical advice on security and performance best practices, it is an essential reading for those who want to stay ahead in the fast-paced world of web development. By the end of this comprehensive guide, you will be a confident PHP 8 developer with the knowledge and skills to build modern, secure, and performant web applications. You will be comfortable working with data structures, interacting with databases, and creating dynamic user experiences. WHAT YOU WILL LEARN ● Understand the new features and improvements in PHP 8+. ● Apply advanced object-oriented programming techniques in PHP. ● Efficiently manage data using PHP for forms, sessions, and cookies. ● Handle errors and exceptions in PHP to write robust code. ● Implement secure practices and optimize PHP performance. ● Connect to and manipulate databases with PHP for data persistence. WHO THIS BOOK IS FOR This book is written for web developers of all skill levels, from beginners to experienced programmers looking to refresh their knowledge with the latest PHP 8 features and best practices. TABLE OF CONTENTS 1. Introduction to PHP 8 2. Fundamentals with PHP 8 3. Functions in PHP 4. Forms, Sessions and Cookies 5. Arrays and Collections 6. OOP Advanced Features of PHP 8+ 7. Handling Errors and Exceptions 8. Database and Data Persistence with PHP 9. Advanced Development with PHP 10. Best Practices Security and Performance with PHP

### Lumen Programming Guide IBM Redbooks

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### Monolith to Microservices BPB Publications

Transit from monolithic architectures to highly available, scalable, and fault-tolerant microservices About This Book Build your own applications based on event-driven microservices and set them up on a production server. Successfully transform any monolithic application into a microservice. Monitor the health of your application, prevent downtime, and reduce costs. Who This Book Is For PHP developers who want to build scalable, highly available, and secure applications will find this book useful. No knowledge of microservices is assumed. What You Will Learn Set up a development environment using the right strategies and tools. Learn about application design and structure to start implementing your application. Transform a monolithic application into microservices. Explore the best way to start implementing your application using testing. Understand how to monitor your

microservices, handle errors, and debug the application. Deploy your finished application into a production environment and learn how to solve common problems. Know how to scale your application based on microservices once it is up-and-running. In Detail The world is moving away from bulky, unreliable, and high-maintenance PHP applications, to small, easy-to-maintain and highly available microservices and the pressing need is for PHP developers to understand the criticalities in building effective microservices that scale at large. This book will be a reliable resource, and one that will help you to develop your skills and teach you techniques for building reliable microservices in PHP. The book begins with an introduction to the world of microservices, and quickly shows you how to set up a development environment and build a basic platform using Docker and Vagrant. You will then get into the different design aspects to be considered while building microservices in your favorite framework and you will explore topics such as testing, securing, and deploying microservices. You will also understand how to migrate a monolithic application to the microservice architecture while keeping scalability and best practices in mind. Furthermore you will get into a few important DevOps techniques that will help you progress on to more complex domains such as native cloud development, as well as some interesting design patterns. By the end of this book you will be able to develop applications based on microservices in an organized and efficient way. You will also gain the knowledge to transform any monolithic applications into microservices. Style and approach Filled with code that you can start typing straightaway, this book will take you through building, testing, securing, and deploying microservices in the most practical way possible. The focus of the book is more inclined towards showing you how it's done, rather than with what to do, although you will get a good idea of those tools most widely used to build microservices.

**Linux Commands, C, C++, Java and Python Exercises For Beginners** Simon and Schuster Develop robust and reusable code using a multitude of design patterns for PHP 7 About This Book Learn about advanced design patterns in PHP 7 Understand enhanced architectural patterns Learn to implement reusable design patterns to address common recurring problems Who This Book Is For This book is for PHP developers who wish to have better organization structure over their code through learning common methodologies to solve architectural problems against a backdrop of learning new functionality in PHP 7. What You Will Learn Recognize recurring problems in your code with Anti-Patterns Uncover object creation mechanisms using Creational Patterns Use Structural design patterns to easily access your code Address common issues encountered when linking objects using the splObserver classes in PHP 7 Achieve a common style of coding with Architectural Patterns Write reusable code for common MVC frameworks such as Zend, Laravel, and Symfony Get to know the best practices associated with design patterns when used with PHP 7 In Detail Design patterns are a clever way to solve common architectural issues that arise during software development. With an increase in demand for enhanced programming techniques and the versatile nature of PHP, a deep understanding of PHP design patterns is critical to achieve efficiency while coding. This comprehensive guide will show you how to achieve better organization structure over your code through learning common methodologies to solve architectural problems. You'll also learn about the new functionalities that PHP 7 has to offer. Starting with a brief introduction to design patterns, you quickly dive deep into the three main architectural patterns: Creational, Behavioral,

and Structural popularly known as the Gang of Four patterns. Over the course of the book, you will get a deep understanding of object creation mechanisms, advanced techniques that address issues concerned with linking objects together, and improved methods to access your code. You will also learn about Anti-Patterns and the best methodologies to adopt when building a PHP 7 application. With a concluding chapter on best practices, this book is a complete guide that will equip you to utilize design patterns in PHP 7 to achieve maximum productivity, ensuring an enhanced software development experience. Style and approach The book covers advanced design patterns in detail in PHP 7 with the help of rich code-based examples.

### **Microservices from Theory to Practice: Creating Applications in IBM Bluemix Using the Microservices Approach** Apress

An effective guide to designing, building, and deploying enterprise Java microservices with Eclipse MicroProfile Key Features Create cloud-native microservices with ease using this detailed guide Avoid vendor lock-in when implementing microservices using Eclipse MicroProfile Discover why MicroProfile is a great specification for building microservices in multi-cloud environments Book Description Eclipse MicroProfile has gained momentum in the industry as a multi-vendor, interoperable, community-driven specification. It is a major disruptor that allows organizations with large investments in enterprise Java to move to microservices without spending a lot on retraining their workforce. This book is based on MicroProfile 2.2, however, it will guide you in running your applications in MicroProfile 3.0. You'll start by understanding why microservices are important in the digital economy and how MicroProfile addresses the need for enterprise Java microservices. You'll learn about the subprojects that make up a MicroProfile, its value proposition to organizations and developers, and its processes and governance. As you advance, the book takes you through the capabilities and code examples of MicroProfile's subprojects - Config, Fault Tolerance, Health Check, JWT Propagation, Metrics, and OpenTracing. Finally, you'll be guided in developing a conference application using Eclipse MicroProfile, and explore possible scenarios of what's next in MicroProfile with Jakarta EE. By the end of this book, you'll have gained a clear understanding of Eclipse MicroProfile and its role in enterprise Java microservices. What you will learn Understand why microservices are important in the digital economy Analyze how MicroProfile addresses the need for enterprise Java microservices Test and secure your applications with Eclipse MicroProfile Get to grips with various MicroProfile capabilities such as OpenAPI and Typesafe REST Client Explore reactive programming with MicroProfile Stream and Messaging candidate APIs Discover and implement coding best practices using MicroProfile Who this book is for If you're a Java developer who wants to create enterprise microservices, this book is for you. Familiarity with Java EE and the concept of microservices will help you get the most out of this book.

*Microservices in Action* Packt Publishing Ltd

Learn to write test-driven microservices, REST APIs, and web service APIs with PHP using the Lumen micro-framework, from the now popular Laravel family. This book shows you how testing APIs can help you write bullet-proof web application services and microservices. In the Lumen Programming Guide you will learn how to use Lumen—a micro-framework by Laravel—to write bullet-proof APIs. Lumen helps you write productive, maintainable APIs using modern application design. You will learn how to write fully-tested APIs and understand essential Lumen concepts used to build a solid

foundation for writing API projects. What You Will Learn Maintain your API's database structure through built-in database migrations Write tests with factory data in a test database Respond with consistent data output in JSON Deal with PHP exceptions by using JSON responses Create, read, update, and delete REST resources Represent model associations in API responses Build a solid foundation for writing tests with PHPUnit and Mockery Validate data Who This Book Is For PHP developers with no Laravel experience. Only a basic understanding of HTTP and writing PHP applications is needed to get started.

**Design Patterns in PHP and Laravel** Packt Publishing Ltd

One of the biggest challenges for organizations that have adopted microservice architecture is the lack of architectural, operational, and organizational standardization. After splitting a monolithic application or building a microservice ecosystem from scratch, many engineers are left wondering what's next. In this practical book, author Susan Fowler presents a set of microservice standards in depth, drawing from her experience standardizing over a thousand microservices at Uber. You'll learn how to design microservices that are stable, reliable, scalable, fault tolerant, performant, monitored, documented, and prepared for any catastrophe. Explore production-readiness standards, including: Stability and Reliability: develop, deploy, introduce, and deprecate microservices; protect against dependency failures Scalability and Performance: learn essential components for achieving greater microservice efficiency Fault Tolerance and Catastrophe Preparedness: ensure availability by actively pushing microservices to fail in real time Monitoring: learn how to monitor, log, and display key metrics; establish alerting and on-call procedures Documentation and Understanding: mitigate tradeoffs that come with microservice adoption, including organizational sprawl and technical debt *Hands-On Swift 5 Microservices Development* Packt Publishing Ltd

Learn each of the original gang of four design patterns, and how they are relevant to modern PHP and Laravel development. Written by a working developer who uses these patterns every day, you will easily be able to implement each pattern into your workflow and improve your development. Each pattern is covered with full examples of how it can be used. Too often design patterns are explained using tricky concepts, when in fact they are easy to use and can enrich your everyday development. Design Patterns in PHP and Laravel aims to break down tricky concepts into humorous and easy-to-recall details, so that you can begin using design patterns easily in your everyday work with PHP and Laravel. This book teaches you design patterns in PHP and Laravel using real-world examples and plenty of humor. What You Will Learn Use the original gang of four design patterns in your PHP and Laravel development How each pattern should be used Solve problems when using the patterns Remember each pattern using mnemonics Who This Book Is For People using Laravel and PHP to do their job and want to improve their understanding of design patterns.

*Modernizing Legacy Applications in PHP* Cybellium Ltd

The conference proceedings provided a setting for discussing recent development in a wide variety of topics and areas including social science and humanities. The theme of the 4th International Conference on Social Science, Humanity and Public Health (ICoSHIP 2023) was "Enhancing a Sustainable Future in The Fields of Social Sciences, Humanities, and Public Health". All of the papers have been checked through rigorous reviews and processes to meet the requirements of the publication and maintain the quality.

*Bootstrapping Microservices with Docker, Kubernetes, and Terraform* Manjunath.R

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](http://informit.com/register) for convenient access to downloads, updates, and/or corrections as they become available.

*The Tao of Microservices* O'Reilly Media

This book will show you how to modernize your page-based, include-oriented PHP application by extracting and replacing its legacy artifacts. We will use a step-by-step approach, moving slowly and methodically, to improve your application from the ground up. Each completed step in the process will keep your codebase fully operational with higher quality. Please note that this book is about modernizing in terms of practice and technique, and not in terms of tools. We are not going to discuss the latest, hottest frameworks or libraries. Most of the very limited code we do add to your application is specific to this book. When we are done, you will be able to breeze through your code like the wind. Your code will be fully modernized: autoloading, dependency-injected, unit-tested, layer-separated, and front-controlled.

**PHP Microservices** Apress

Use the many types of tools required to navigate and maintain a microservice ecosystem. This book examines what is normally a complex system of interconnected services and clarifies them one at a time, first examining theoretical requirements then looking at concrete tools, configuration, and workflows. Building out these systems includes many concerns such as containerization, container

orchestration, build pipelines and continuous integration solutions, automated testing, service discovery, logging and analytics. You will examine each of these tools and understand how they can be combined within an organization. You will design an automated build pipeline from Pull Request to container deployment, understand how to achieve High Availability and monitor application health with Service Discovery, and learn how to collaborate with other teams, write documentation, and describe bugs. Covering use of Jenkins, Docker, Kubernetes, the ELK stack (Elasticsearch, Logstash, and Kibana), and StatsD and Grafana for analytics, you will build on your existing knowledge of Service-Oriented Architecture and gain an advanced, practical understanding of everything from infrastructure development to team collaboration. What You'll Learn Design an API to be convenient for developers to consume. Deploy dynamic instances of Microservices and allow them to discover each other. Track the health of a Microservice and be notified in case of degraded performance. Write effective documentation and communicate efficiently with other teams. Who This Book Is For Those who would like a better understanding of System Oriented Architecture. Those who would like to break a monolith into smaller Microservices. Those who are familiar with Microservices and would like a better understanding of peripheral technologies.

*Building Microservices with Micronaut®* Simon and Schuster

This book describes the potential contributions of emerging technologies in different fields as well as the opportunities and challenges related to the integration of these technologies in the socio-economic sector. In this book, many latest technologies are addressed, particularly in the fields of computer science and engineering. The expected scientific papers covered state-of-the-art technologies, theoretical concepts, standards, product implementation, ongoing research projects, and innovative applications of Sustainable Development. This new technology highlights, the guiding principle of innovation for harnessing frontier technologies and taking full profit from the current technological revolution to reduce gaps that hold back truly inclusive and sustainable development. The fundamental and specific topics are Big Data Analytics, Wireless sensors, IoT, Geospatial technology, Engineering and Mechanization, Modeling Tools, Risk analytics, and preventive systems.

**Pro Microservices in .NET 6** Packt Publishing Ltd

Build fast, efficient Kubernetes-based Java applications using the Quarkus framework, MicroProfile, and Java standards. In *Kubernetes Native Microservices with Quarkus and MicroProfile* you'll learn how to: Deploy enterprise Java applications on Kubernetes Develop applications using the Quarkus runtime Compile natively using GraalVM for blazing speed Create efficient microservices applications Take advantage of MicroProfile specifications Popular Java frameworks like Spring were designed long before Kubernetes and the microservices revolution. *Kubernetes Native Microservices with Quarkus and MicroProfile* introduces next generation tools that have been cloud-native and Kubernetes-aware right from the beginning. Written by veteran Java developers John Clingan and Ken Finnigan, this book shares expert insight into Quarkus and MicroProfile directly from contributors at Red Hat. You'll learn how to utilize these modern tools to create efficient enterprise Java applications that are easy to deploy, maintain, and expand. About the technology Build microservices efficiently with modern Kubernetes-first tools! Quarkus works naturally with containers and Kubernetes, radically simplifying the development and deployment of microservices. This powerful framework minimizes startup time and memory use, accelerating performance and

reducing hosting cost. And because it's Java from the ground up, it integrates seamlessly with your existing JVM codebase. About the book *Kubernetes Native Microservices with Quarkus and MicroProfile* teaches you to build microservices using containers, Kubernetes, and the Quarkus framework. You'll immediately start developing a deployable application using Quarkus and the MicroProfile APIs. Then, you'll explore the startup and runtime gains Quarkus delivers out of the box and also learn how to supercharge performance by compiling natively using GraalVM. Along the way, you'll see how to integrate a Quarkus application with Spring and pick up pro tips for monitoring and managing your microservices. What's inside Deploy enterprise Java applications on Kubernetes Develop applications using the Quarkus runtime framework Compile natively using GraalVM for blazing speed Take advantage of MicroProfile specifications About the reader For intermediate Java developers comfortable with Java EE, Jakarta EE, or Spring. Some experience with Docker and Kubernetes required. About the author John Clingan is a senior principal product manager at Red Hat, where he works on enterprise Java standards and Quarkus. Ken Finnigan is a senior principal software engineer at Workday, previously at Red Hat working on Quarkus. Table of Contents PART 1 INTRODUCTION 1 Introduction to Quarkus, MicroProfile, and Kubernetes 2 Your first Quarkus application PART 2 DEVELOPING MICROSERVICES 3 Configuring microservices 4 Database access with Panache 5 Clients for consuming other microservices 6 Application health 7 Resilience strategies 8 Reactive in an imperative world 9 Developing Spring microservices with Quarkus PART 3 OBSERVABILITY, API DEFINITION, AND SECURITY OF MICROSERVICES 10 Capturing metrics 11 Tracing microservices 12 API visualization 13 Securing a microservice

**Introduction to PHP Web Services** O'Reilly Media

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

*Unlock PHP 8: From Basic to Advanced* Addison-Wesley Professional

Many businesses and organizations depend on older high-value PHP software that risks abandonment because it is impossible to maintain. The reasons for this may be that the software is not well designed; there is only one developer (the one who created the system) who can develop it because he didn't use common design patterns and documentation; or the code is procedural, not

object-oriented. With this book, you'll learn to identify problem code and refactor it to create more effective applications using test-driven design.

*Mastering the Interview: 80 Essential Questions for Software Engineers* Springer Nature

This book covers latest topics including RESTful, RPC, SOAP, Microservices, Webhook, WSDL and more. I've provided working examples with code throughout the book. The code and examples are in PHP, JavaScript, JSON, XML, MySQL and WSDL. Each example has screen shot output so that you could match your output with the correct output I provide. I chose PHP to write this book because PHP is ready to develop RESTful and SOAP webservices. PHP is platform independent and widely used in developing data-driven Websites.

#### **Production-Ready Microservices** Manjunath.R

Know the fundamentals of creating and deploying microservices using .NET 6 and gain insight from prescriptive guidance in this book on the when and why to incorporate them. The microservices architecture is a way of distributing process workloads to independent applications. This distribution allows for the independent applications to scale and evolve separately. It also enables developers to dismantle large applications into smaller, easier-to-maintain, scalable parts. While the return is valuable and the concept straightforward, applying it to an application is far more complicated. Where do you start? How do you find the optimal dividing point for your app, and strategically, how should your app be parceled out into separate services? Pro Microservices in .NET 6 will introduce you to all that and more. The authors get you started with an overview of microservices, .NET 6, event storming, and domain-driven design. You will use that foundational information to build a reference application throughout the book. From there, you will create your first microservice using .NET 6 that you can deploy into Docker and Azure Kubernetes Service. You will also learn about communication styles, decentralizing data, and testing microservices. Finally, you will learn about logging, metrics, tracing, and use that information for debugging. What You Will Learn Build a foundation of basic microservices architecture design Follow an example of using event storming and domain-driven design to understand the monolithic application modified for microservices Understand, via detailed commands, how Docker is used to containerize applications Get an overview of creating microservices from a monolithic application Call microservices using RPC and messaging communication styles with MassTransit Comprehend decentralizing data and handling distributed transactions Use Azure Kubernetes Service to host and scale your microservices Know the methods to make your microservices more robust Discover testing techniques for RPC and

messaging communication styles Apply the applications you build for actual use Practice cross-cutting concerns such as logging, metrics, and tracing Who This Book Is For Developers and software architects. Readers should have basic familiarity with Visual Studio and experience with .NET, ASP.NET Core, and C#.

*Mastering PHP 7* Packt Publishing Ltd

"The one [and only] book on implementing microservices with a real-world, cover-to-cover example you can relate to." - Christian Bach, Swiss Re Microservices in Action is a practical book about building and deploying microservice-based applications. Written for developers and architects with a solid grasp of service-oriented development, it tackles the challenge of putting microservices into production. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Invest your time in designing great applications, improving infrastructure, and making the most out of your dev teams. Microservices are easier to write, scale, and maintain than traditional enterprise applications because they're built as a system of independent components. Master a few important new patterns and processes, and you'll be ready to develop, deploy, and run production-quality microservices. About the Book Microservices in Action teaches you how to write and maintain microservice-based applications. Created with day-to-day development in mind, this informative guide immerses you in real-world use cases from design to deployment. You'll discover how microservices enable an efficient continuous delivery pipeline, and explore examples using Kubernetes, Docker, and Google Container Engine. What's inside An overview of microservice architecture Building a delivery pipeline Best practices for designing multi-service transactions and queries Deploying with containers Monitoring your microservices About the Reader Written for intermediate developers familiar with enterprise architecture and cloud platforms like AWS and GCP. About the Author Morgan Bruce and Paulo A. Pereira are experienced engineering leaders. They work daily with microservices in a production environment, using the techniques detailed in this book. Table of Contents Designing and running microservices Microservices at SimpleBank Architecture of a microservice application Designing new features Transactions and queries in microservices Designing reliable services Building a reusable microservice framework Deploying microservices Deployment with containers and schedulers Building a delivery pipeline for microservices Building a monitoring system Using logs and traces to understand behavior Building microservice teams PART 1 - The lay of the land PART 2 - Design PART 3 - Deployment PART 4 - Observability and ownership

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