

Microservices: Patterns and Applications

**Designing fine-grained services
by applying patterns**

LUCAS KRAUSE

Microservices Patterns And Applications Designing Fine Grained Services By Applying Patterns

G Psacharopoulos



Microservices Patterns And Applications Designing Fine Grained Services By Applying Patterns :

Microservices: Patterns and Applications Lucas Krause, 2015-04-01 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 needs 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 Web 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 *Cloud Application Architecture Patterns* Kyle Brown, Bobby Woolf, Joseph Yoder, 2025-04-15 There are more

applications running in the cloud than there are ones that run well there If you're considering taking advantage of cloud technology for your company's projects this practical guide is an ideal way to understand the best practices that will help you architect applications that work well in the cloud no matter which vendors' products or languages you use Architects and lead developers will learn how cloud applications should be designed how they fit into a larger architectural picture and how to make them operate efficiently Authors Kyle Brown Bobby Woolf and Joseph Yoder take you through the process step by step Explore proven architectural practices for developing applications for the cloud Understand why some architectural choices are better suited than others for applications intended to run on the cloud Learn design and implementation techniques for developing cloud applications Select the most appropriate cloud adoption patterns for your organization See how all potential choices in application design relate to each other through the connections of the patterns Chart your own course in adopting the right strategies for developing application architectures for the cloud

Applied Akka Patterns Michael Nash, Wade Waldron, 2016-12-12 When it comes to big data processing we can no longer ignore concurrency or try to add it in after the fact Fortunately the solution is not a new paradigm of development but rather an old one With this hands-on guide Java and Scala developers will learn how to embrace concurrent and distributed applications with the open source Akka toolkit You'll learn how to put the actor model and its associated patterns to immediate and practical use Throughout the book you'll deal with an analogous workforce problem how to schedule a group of people across a variety of projects while optimizing their time and skillsets This example will help you understand how Akka uses actors streams and other tools to stitch your application together Model software that reflects the real world with domain driven design Learn principles and practices for implementing individual actors Unlock the real potential of Akka with patterns for combining multiple actors Understand the consistency tradeoffs in a distributed system Use several Akka methods for isolating and dealing with failures Explore ways to build systems that support availability and scalability Tune your Akka application for performance with JVM tools and dispatchers

Product-Focused Software Process Improvement Xavier Franch, Tomi Männistö, Silverio Martínez-Fernández, 2019-11-18 This book constitutes the refereed proceedings of the 20th International Conference on Product Focused Software Process Improvement PROFES 2019 held in Barcelona Spain in November 2019 The 24 revised full papers 4 industry papers and 11 short papers presented were carefully reviewed and selected from 104 submissions The papers cover a broad range of topics related to professional software development and process improvement driven by product and service quality needs They are organized in topical sections on testing software development technical debt estimations continuous delivery agile project management microservices and continuous experimentation This book also includes papers from the co-located events 10 project papers 8 workshop papers and 4 tutorial summaries

Hands-On RESTful API Design Patterns and Best Practices Harihara Subramanian, Pethuru Raj, 2019-01-31 Build effective RESTful APIs for enterprise with design patterns and REST framework's out-of-the-box capabilities Key Features Understand advanced

topics such as API gateways API securities and cloudImplement patterns programmatically with easy to follow examplesModernize legacy codebase using API connectors layers and microservicesBook Description This book deals with the Representational State Transfer REST paradigm which is an architectural style that allows networked devices to communicate with each other over the internet With the help of this book you ll explore the concepts of service oriented architecture SOA event driven architecture EDA and resource oriented architecture ROA This book covers why there is an insistence for high quality APIs toward enterprise integration It also covers how to optimize and explore endpoints for microservices with API gateways and touches upon integrated platforms and Hubs for RESTful APIs You ll also understand how application delivery and deployments can be simplified and streamlined in the REST world The book will help you dig deeper into the distinct contributions of RESTful services for IoT analytics and applications Besides detailing the API design and development aspects this book will assist you in designing and developing production ready testable sustainable and enterprise grade APIs By the end of the book you ll be empowered with all that you need to create highly flexible APIs for next generation RESTful services and applications What you will learnExplore RESTful concepts including URI HATEOAS and Code on DemandStudy core patterns like Statelessness Pagination and DiscoverabilityOptimize endpoints for linked microservices with API gatewaysDelve into API authentication authorization and API security implementationsWork with Service Orchestration to craft composite and process aware servicesExpose RESTful protocol based APIs for cloud computingWho this book is for This book is primarily for web mobile and cloud services developers architects and consultants who want to build well designed APIs for creating and sustaining enterprise class applications You ll also benefit from this book if you want to understand the finer details of RESTful APIs and their design techniques along with some tricks and tips

Application Design Rob Botwright,2024 Introducing the Ultimate Application Design Book Bundle Are you ready to take your application design skills to the next level Dive into the world of data intensive app systems with our comprehensive book bundle Application Design Key Principles for Data Intensive App Systems Book 1 Foundations of Application Design Lay the groundwork for success with an introduction to key principles for data intensive systems From data modeling basics to architecture patterns this volume sets the stage for mastering application design Book 2 Mastering Data Intensive App Architecture Elevate your skills with advanced techniques and best practices for architecting data intensive applications Explore distributed systems microservices and optimization strategies to build scalable and resilient systems Book 3 Scaling Applications Learn essential strategies and tactics for handling data intensive workloads Discover performance optimization techniques cloud computing and containerization to scale your applications effectively Book 4 Expert Insights in Application Design Gain valuable insights from industry experts and thought leaders Explore cutting edge approaches and innovations shaping the future of data intensive application development With a combined wealth of knowledge these four books provide everything you need to succeed in the fast paced world of application design Whether

you're a seasoned professional or just starting your journey this bundle is your roadmap to success Don't miss out on this opportunity to master application design and unlock new possibilities in your career Get your hands on the Application Design Key Principles for Data Intensive App Systems book bundle today Scalable Cloud Computing: Patterns for Reliability and Performance Peter Jones,2025-01-14 Dive into the transformative world of cloud computing with Scalable Cloud Computing Patterns for Reliability and Performance your comprehensive guide to mastering the principles strategies and practices that define modern cloud environments This carefully curated book navigates through the intricate landscape of cloud computing from foundational concepts and architecture to designing resilient scalable applications and managing complex data in the cloud Whether you're a beginner seeking to understand the basics or an experienced professional aiming to enhance your skills this book offers deep insights into ensuring reliability optimizing performance securing cloud environments and much more Explore the latest trends including microservices serverless computing and emerging technologies that are pushing the boundaries of what's possible in the cloud Through detailed explanations practical examples and real world case studies Scalable Cloud Computing Patterns for Reliability and Performance equips you with the knowledge to architect and deploy robust applications that leverage the full potential of cloud computing Unlock the secrets to optimizing costs automating deployments with CI/CD and navigating the complexities of data management and security in the cloud This book is your gateway to becoming an expert in cloud computing ready to tackle challenges and seize opportunities in this ever evolving field Join us on this journey to mastering cloud computing where scalability and reliability are within your reach *Hands-On System Design* Harsh Kumar Ramchandani,2022-03-29 The ultimate guide to ace your system designing interviews KEY FEATURES Provides step by step solutions to real world problems related to system design and development Includes detailed explanations of each OOPs idea and design pattern along with code snippets in the C style Contains illustrations and demonstrations that describe the technologies enabling modern scalable systems DESCRIPTION Scaling software application is the focus of this book which takes the reader on an in depth journey You'll have a better understanding of how to create a scalable enterprise level application after reading this guide The book discusses system design principles computer networks major networking protocols strategies for scaling data access and various architectural styles for creating the system A thorough examination of various technologies such as Cache Memory CDN Load Balancers and Messaging Queues are conducted and their implementation The book also demonstrates how you can use these combinations of technologies in the best way to build a scalable enterprise level system The examination of several architectural styles for system design assists you in choosing the best path for architecting your system Additionally the book explores object oriented programming concepts and design patterns that facilitate the creation of clean maintainable code The reader will develop an intuitive knowledge of numerous tools and approaches for creating a scalable system by using several actual system design examples This book can tackle any system design problem you may meet in your current

position or interviews You ll learn how to design a system from scratch and the examples in the book will help you to improve your skills WHAT YOU WILL LEARN Acquaint yourself with the fundamentals of computer networks and major networking protocols Gain an understanding of various technologies to develop a distributed scalable application Develop the capacity to approach any system design problem with a unique perspective Gain insight into programming design patterns and object oriented principles Investigate several methods for expanding data access Discover many architectural styles for system design WHO THIS BOOK IS FOR The book is intended for software developers system design engineers aspiring system architects IT professionals and students who want to learn how to construct a scalable application or prepare for system design interviews Basic knowledge of programming and computer architecture is recommended but not demanded to grasp the book TABLE OF CONTENTS 1 Fundamentals of System Design Principles 2 Networking Basics 3 Scaling Databases 4 System Architecture 5 Introduction to Object Oriented Programming 6 Design Patterns 7 Object Oriented Design Methodology 8 Approaching System design problems 9 Designing a key value store 10 Designing a video streaming website 11 Designing a website like Twitter 12 Designing a card authentication system 13 Designing an Image Hosting Application

Design Patterns for Cloud Native Applications Kasun Indrasiri,Sriskandarajah Suhothayan,2021-05-17 With the immense cost savings and scalability the cloud provides the rationale for building cloud native applications is no longer in question The real issue is how With this practical guide developers will learn about the most commonly used design patterns for building cloud native applications using APIs data events and streams in both greenfield and brownfield development You ll learn how to incrementally design develop and deploy large and effective cloud native applications that you can manage and maintain at scale with minimal cost time and effort Authors Kasun Indrasiri and Srisankandarajah Suhothayan highlight use cases that effectively demonstrate the challenges you might encounter at each step Learn the fundamentals of cloud native applications Explore key cloud native communication connectivity and composition patterns Learn decentralized data management techniques Use event driven architecture to build distributed and scalable cloud native applications Explore the most commonly used patterns for API management and consumption Examine some of the tools and technologies you ll need for building cloud native systems *Practical Site Reliability Engineering* Pethuru Raj Chelliah,Shreyash

Naithani,Shailender Singh,2018-11-30 Create deploy and manage applications at scale using SRE principles Key FeaturesBuild and run highly available scalable and secure softwareExplore abstract SRE in a simplified and streamlined wayEnhance the reliability of cloud environments through SRE enhancementsBook Description Site reliability engineering SRE is being touted as the most competent paradigm in establishing and ensuring next generation high quality software solutions This book starts by introducing you to the SRE paradigm and covers the need for highly reliable IT platforms and infrastructures As you make your way through the next set of chapters you will learn to develop microservices using Spring Boot and make use of RESTful frameworks You will also learn about GitHub for deployment containerization and Docker

containers Practical Site Reliability Engineering teaches you to set up and sustain containerized cloud environments and also covers architectural and design patterns and reliability implementation techniques such as reactive programming and languages such as Ballerina and Rust In the concluding chapters you will get well versed with service mesh solutions such as Istio and Linkerd and understand service resilience test practices API gateways and edge fog computing By the end of this book you will have gained experience on working with SRE concepts and be able to deliver highly reliable apps and services What you will learn Understand how to achieve your SRE goals Grasp Docker enabled containerization concepts Leverage enterprise DevOps capabilities and Microservices architecture MSA Get to grips with the service mesh concept and frameworks such as Istio and Linkerd Discover best practices for performance and resiliency Follow software reliability prediction approaches and enable patterns Understand Kubernetes for container and cloud orchestration Explore the end to end software engineering process for the containerized world Who this book is for Practical Site Reliability Engineering helps software developers IT professionals DevOps engineers performance specialists and system engineers understand how the emerging domain of SRE comes handy in automating and accelerating the process of designing developing debugging and deploying highly reliable applications and services

Microservices Design Patterns ALI HEYDARIMOGHADDAM, Uncover the secrets to building robust and scalable microservices architectures in the digital era Microservices Design Patterns is your essential guide to navigating the complex landscape of modern software development Whether you re a seasoned architect or a curious developer this book offers a deep dive into proven design patterns that empower you to create agile scalable and resilient microservices Inside you ll explore Strategies for Scaling Microservices Fault Tolerance and Resilience Patterns Service Discovery and Communication Patterns Security Best Practices Monitoring and Observability Techniques With real world examples and practical insights this book is a must read for anyone looking to master microservices design Elevate your software development skills and stay ahead in the rapidly evolving world of technology Ready to revolutionize your approach to microservices Dive into Microservices Design Patterns today Get your copy now and embark on a journey to architecting the future of scalable software

Microservices Patterns Chris Richardson, 2018-10-27 A comprehensive overview of the challenges teams face when moving to microservices with industry tested solutions to these problems Tim Moore Lightbend 44 reusable patterns to develop and deploy reliable production quality microservices based applications with worked examples in Java Key Features 44 design patterns for building and deploying microservices applications Drawing on decades of unique experience from author and microservice architecture pioneer Chris Richardson A pragmatic approach to the benefits and the drawbacks of microservices architecture Solve service decomposition transaction management and inter service communication Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About The Book Microservices Patterns teaches you 44 reusable patterns to reliably develop and deploy production quality microservices based applications This invaluable set of design patterns builds

on decades of distributed system experience adding new patterns for composing services into systems that scale and perform under real world conditions More than just a patterns catalog this practical guide with worked examples offers industry tested advice to help you design implement test and deploy your microservices based application What You Will Learn How and why to use microservices architecture Service decomposition strategies Transaction management and querying patterns Effective testing strategies Deployment patterns This Book Is Written For Written for enterprise developers familiar with standard enterprise application architecture Examples are in Java About The Author Chris Richardson is a Java Champion a JavaOne rock star author of Manning s POJOs in Action and creator of the original CloudFoundry com Table of Contents Escaping monolithic hell Decomposition strategies Interprocess communication in a microservice architecture Managing transactions with sagas Designing business logic in a microservice architecture Developing business logic with event sourcing Implementing queries in a microservice architecture External API patterns Testing microservices part 1 Testing microservices part 2 Developing production ready services Deploying microservices Refactoring to microservices [Recent Advances in Information and Communication Technology 2018](#) Herwig Unger,Sunantha Sodsee,Phayung Meesad,2018-06-26 This book contains the research contributions presented at the 14th International Conference on Computing and Information Technology IC2IT 2018 organised by King Mongkut s University of Technology North Bangkok and its partners and held in the northern Thai city of Chiang Mai in July 2018 Traditionally IC2IT 2018 provides a forum for exchange on the state of the art and on expected future developments in its field Correspondingly this book contains chapters on topics in data mining machine learning natural language processing image processing networks and security software engineering and information technology With them the editors want to foster inspiring discussions among colleagues not only during the conference It is also intended to contribute to a deeper understanding of the underlying problems as needed to solve them in complex environments and beneficial for this purpose to encourage interdisciplinary cooperation [Embracing Microservices Design](#) Ovais Mehboob Ahmed Khan,Nabil Siddiqui,Timothy Oleson,Mark Fussell,2021-10-29 Develop microservice based enterprise applications with expert guidance to avoid failures and technological debt with the help of real world examples Key FeaturesImplement the right microservices adoption strategy to transition from monoliths to microservicesExplore real world use cases that explain anti patterns and alternative practices in microservices developmentDiscover proven recommendations for avoiding architectural mistakes when designing microservicesBook Description Microservices have been widely adopted for designing distributed enterprise apps that are flexible robust and fine grained into services that are independent of each other There has been a paradigm shift where organizations are now either building new apps on microservices or transforming existing monolithic apps into microservices based architecture This book explores the importance of anti patterns and the need to address flaws in them with alternative practices and patterns You ll identify common mistakes caused by a lack of understanding when implementing microservices and cover topics such as

organizational readiness to adopt microservices domain driven design and resiliency and scalability of microservices The book further demonstrates the anti patterns involved in re platforming brownfield apps and designing distributed data architecture You ll also focus on how to avoid communication and deployment pitfalls and understand cross cutting concerns such as logging monitoring and security Finally you ll explore testing pitfalls and establish a framework to address isolation autonomy and standardization By the end of this book you ll have understood critical mistakes to avoid while building microservices and the right practices to adopt early in the product life cycle to ensure the success of a microservices initiative What you will learn Discover the responsibilities of different individuals involved in a microservices initiative Avoid the common mistakes in architecting microservices for scalability and resiliency Understand the importance of domain driven design when developing microservices Identify the common pitfalls involved in migrating monolithic applications to microservices Explore communication strategies along with their potential drawbacks and alternatives Discover the importance of adopting governance security and monitoring Understand the role of CI CD and testing Who this book is for This practical microservices book is for software architects solution architects and developers involved in designing microservices architecture and its development who want to gain insights into avoiding pitfalls and drawbacks in distributed applications and save time and money that might otherwise get wasted if microservices designs fail Working knowledge of microservices is assumed to get the most out of this book

Software Architecture with C# 12 and .NET 8 Gabriel Baptista, Francesco Abbruzzese, 2024-02-28 A book for the aspiring NET software architect design scalable and high performance enterprise solutions using the latest features of C 12 and NET 8 Purchase of the print or Kindle book includes a free PDF eBook Key Features Get introduced to software architecture fundamentals and begin applying them in NET Explore the main technologies used by software architects and choose the best ones for your needs Master new developments in NET with the help of a practical case study that looks at software architecture for a travel agency Book Description Software Architecture with C 12 and NET 8 puts high level design theory to work in a NET context teaching you the key skills technologies and best practices required to become an effective NET software architect This fourth edition puts emphasis on a case study that will bring your skills to life You ll learn how to choose between different architectures and technologies at each level of the stack You ll take an even closer look at Blazor and explore OpenTelemetry for observability as well as a more practical dive into preparing NET microservices for Kubernetes integration Divided into three parts this book starts with the fundamentals of software architecture covering C best practices software domains design patterns DevOps principles for CI CD and more The second part focuses on the technologies from choosing data storage in the cloud to implementing frontend microservices and working with Serverless You ll learn about the main communication technologies used in microservices such as REST API gRPC Azure Service Bus and RabbitMQ The final part takes you through a real world case study where you ll create software architecture for a travel agency By the end of this book you will be able to transform

user requirements into technical needs and deliver highly scalable enterprise software architectures What you will learn Program and maintain Azure DevOps and explore GitHub Projects Manage software requirements to design functional and non functional needs Apply architectural approaches such as layered architecture and domain driven design Make effective choices between cloud based and data storage solutions Implement resilient frontend microservices worker microservices and distributed transactions Understand when to use test driven development TDD and alternative approaches Choose the best option for cloud development from IaaS to Serverless Who this book is for This book is for engineers and senior software developers aspiring to become architects or looking to build enterprise applications with the NET stack Basic familiarity with C and NET is required to get the most out of this software architecture book

Cloud Native Architectures Tom Laszewski,Kamal Arora,Erik Farr,Piyum Zonooz,2018-08-31 Learn and understand the need to architect cloud applications and migrate your business to cloud efficiently Key Features Understand the core design elements required to build scalable systems Plan resources and technology stacks effectively for high security and fault tolerance Explore core architectural principles using real world examples Book Description Cloud computing has proven to be the most revolutionary IT development since virtualization Cloud native architectures give you the benefit of more flexibility over legacy systems To harness this businesses need to refresh their development models and architectures when they find they don t port to the cloud Cloud Native Architectures demonstrates three essential components of deploying modern cloud native architectures organizational transformation deployment modernization and cloud native architecture patterns This book starts with a quick introduction to cloud native architectures that are used as a base to define and explain what cloud native architecture is and is not You will learn what a cloud adoption framework looks like and develop cloud native architectures using microservices and serverless computing as design principles You ll then explore the major pillars of cloud native design including scalability cost optimization security and ways to achieve operational excellence In the concluding chapters you will also learn about various public cloud architectures ranging from AWS and Azure to the Google Cloud Platform By the end of this book you will have learned the techniques to adopt cloud native architectures that meet your business requirements You will also understand the future trends and expectations of cloud providers What you will learn Learn the difference between cloud native and traditional architecture Explore the aspects of migration when and why to use it Identify the elements to consider when selecting a technology for your architecture Automate security controls and configuration management Use infrastructure as code and CICD pipelines to run environments in a sustainable manner Understand the management and monitoring capabilities for AWS cloud native application architectures Who this book is for Cloud Native Architectures is for software architects who are keen on designing resilient scalable and highly available applications that are native to the cloud

The Complete Handbook of Golang Microservices: Best Practices and Techniques Peter Jones,2025-01-11

Immerse yourself in the world of Go microservices with The Complete Handbook of Golang Microservices Best Practices and

Techniques the essential resource for developers aspiring to master this modern software architecture Whether you re new to Go or aiming to refine your skills this book provides an exhaustive exploration of microservices from the ground up specifically tailored to the Go programming language Explore the core principles of microservices and the Go language establishing a robust foundation before progressing to advanced topics like RESTful API development gRPC communication database integration testing strategies and containerization with Docker and Kubernetes Each chapter is thoughtfully structured to build on previous concepts ensuring a cohesive and comprehensive mastery of building deploying and managing scalable and efficient microservices Authored by experts in Golang and microservices this handbook is packed with real world examples best practices and practical techniques Whether your goal is to transition to a microservices architecture or enhance your existing Golang projects this book offers the insights and tools necessary to navigate challenges and seize the opportunities of microservices Unlock the full potential of Golang microservices and elevate your development skills with *The Complete Handbook of Golang Microservices Best Practices and Techniques* *Microservices* Antonio Bucchiarone,Nicola Dragoni,Schahram Dustdar,Patricia Lago,Manuel Mazzara,Victor Rivera,Andrey Sadovych,2019-12-11 This book describes in contributions by scientists and practitioners the development of scientific concepts technologies engineering techniques and tools for a service based society The focus is on microservices i e cohesive independent processes deployed in isolation and equipped with dedicated memory persistence tools which interact via messages The book is structured in six parts Part 1 Opening analyzes the new and old challenges including service design and specification data integrity and consistency management and provides the introductory information needed to successfully digest the remaining parts Part 2 Migration discusses the issue of migration from monoliths to microservices and their loosely coupled architecture Part 3 Modeling introduces a catalog and a taxonomy of the most common microservices anti patterns and identifies common problems It also explains the concept of RESTful conversations and presents insights from studying and developing two further modeling approaches Next Part 4 is dedicated to various aspects of Development and Deployment Part 5 then covers Applications of microservices presenting case studies from Industry 4 0 Netflix and customized SaaS examples Eventually Part 6 focuses on Education and reports on experiences made in special programs both at academic level as a master program course and for practitioners in an industrial training As only a joint effort between academia and industry can lead to the release of modern paradigm based programming languages and subsequently to the deployment of robust and scalable software systems the book mainly targets researchers in academia and industry who develop tools and applications for microservices **Software Architecture** Ilias Gerostathopoulos,Grace Lewis,Thais Batista,Tomáš Bureš,2022-09-08 This book constitutes the refereed proceedings of the 16th International Conference on Software Architecture ECSA 2022 held in Prague in September 2022 The 9 full papers and 6 short papers were carefully selected from 47 submissions In the Research Track 11 full papers presented together with 5 short papers were carefully reviewed and

selected from 58 submissions The papers are organized in topical sections as follows components APIs and interface management architecting for data driven systems microservices and middleware architecture modeling design and decision making architecture reconstruction and recovery *Service-Oriented Computing* Hakim Hacid,Odej Kao,Massimo Mecella,Naouel Moha,Hye-young Paik,2021-11-17 This book constitutes the proceedings of the 19th International Conference on Service Oriented Computing ICSOC 2020 which is held virtually in November 2021 The 29 full 28 short and 3 vision papers included in this volume were carefully reviewed and selected from 189 submissions They were organized in topical sections named Blockchains and smart contracts Architectures microservices and APIs Applications Internet of Things crowdsourced social and conversational services Service composition and recommendation Cloud computing and Edge computing

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