Building Distrted Systems And Microservices In Go With

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Building Distrted Systems And Microservices

Matt Davis, CTO and co-founder of online academic library Perlego, reveals the secret behind his company's recent exponential growth ...

How microservices help Perlego deliver textbook availability

Nicholas Mitchell presents the core building blocks of an entire ... have become a popular way to develop distributed systems with microservices. In this guide, written by David Heffelfinger ...

Develop Resilient Applications with Event-Driven Microservices

Kong Inc., the cloud connectivity company, today announced its fourth annual conference, Kong Summit 2021, will take place on September 27-29. The hybrid event experience will enable attendees to ...

Save the Date: Kong Summit 2021 Hybrid, September 27-29, Virtual and In-Person at The Palace Hotel in San Francisco

The "Global Smart Buildings Market by Technology (AI, IoT, Indoor Wireless), Infrastructure, Solutions (Asset Tracking, Data Analytics, ...

Outlook on the Smart Buildings Global Market to 2026 - Building Automation Systems Optimize Operations Presents Opportunities

The "Global Smart Buildings Market by Technology (AI, IoT, Indoor Wireless), Infrastructure, Solutions (Asset Tracking, Data Analytics, IWMS), and Deployment Models 2021-2026" report has been added to ...

Global Smart Buildings Market (2021 to 2026) - by Technology, Infrastructure, Solutions and Deployment Models

Today, many companies deploy hyperconverged infrastructure that combines network, compute, and storage in a building ... microservices, and APIs across clouds, SaaS, and enterprise systems.

5 key technologies for cloud architectures

This starts with raising our standards and working to ensure that the solutions we deploy are energy efficient, open, interoperable, and future proof. Only at this point will we really be able to turn ...

Building a Better, Decarbonized World Means Improving Energy Efficiency in all Buildings, New and Old

The U.S. Department of Agriculture (USDA) will continue to help feed students in our local school districts. For more than a year, the USDA has helped provide free breakfast and lunch for students ...

Extension of USDA program will help provide free meals to Hamilton County students

Microsoft is offering a Visual Studio Code extension to help developers use the Project Tye .NET tool for building microservices and distributed applications. Available in a preview form from the ...

Microsoft equips Visual Studio Code with extension for Project Tye microservices

Brazilian PV system provider and system integrator Renovigi is building a PV system assembly factory at the Port of Pecém, in the state of Ceará, in northeastern Brazil. The factory, which is expected ...

New PV system assembly factory in Brazil

"With an OpenStack cloud, it's fully distributed ... to orchestrate microservices and Docker containers. He described microservice architecture as a style where a complex system is decomposed ...

AnsibleFest: Ansible on Docker containers, microservices and OpenStack

Remote, an HR platform that helps businesses build and manage remote teams, has raised $150 million at a valuation of more than $1 billion.

Remote raises $150 million to power the distributed workforce

If you are building applications today ... involves looking at streaming and messaging systems that will pass requests between the microservices components. These connections link all the ...

Why developers should use Apache Pulsar

Fully digitizing our power systems to enable smart communication between electrical sources and end use equipment ...

Atom Power Expands into Electric Vehicle Charging and Residential Markets

Legacy systems are also quite large in terms of the codebase as well as functionality. By refactoring such applications to a microservices architecture ... while simultaneously building operations ...

4 benefits of modernizing enterprise applications

microservices, immutable infrastructure, and more. That refinement of cloud-based development led directly to the creation of GitOps, a process for building, testing, and releasing apps with ...

If you've never heard of GitOps, this training explains it all and its role in changing your web development game

enabling security and engineering teams to keep up with the rapid change driven by the adoption of microservices, APIs, and rapid cloud adoption. Traceable applies the power of distributed tracing ...

Traceable Wins 2021 Fortress Cyber Security Award

Observability platform Grafana Labs today announced it has acquired K6, a Stockholm-headquartered startup that's building ... alerting system, and the debut of Grafana Tempo distributed tracing.

Grafana Labs acquires load-testing startup K6

They include building autonomous, self-healing computing systems; adopting microservices and optimisation of cloud- native applications; creating AI-based information management; and developing AI ...

Annotation Over the past 10 years, distributed systems have become more fine-grained. From the large multi-million line long monolithic applications, we are now seeing the benefits of smaller self-contained services. Rather than heavy-weight, hard to change Service Oriented Architectures, we are now seeing systems consisting of collaborating microservices. Easier to change, deploy, and if required retire, organizations which are in the right position to take advantage of them are yielding significant benefits. This book takes an holistic view of the things you need to be cognizant of in order to pull this off. It covers just enough understanding of technology, architecture, operations and organization to show you how to move towards finer-grained systems.

In the race to compete in today's fast-moving markets, large enterprises are busy adopting new technologies for creating new products, processes, and business models. But one obstacle on the road to digital transformation is placing too much emphasis on technology, and not enough on the types of processes technology enables. What if different lines of business could build their own services and applications—and decision-making was distributed rather than centralized? This report explores the concept of a digital business platform as a way of empowering individual business sectors to act on data in real time. Much innovation in a digital enterprise will increasingly happen at the edge, whether it involves business users (from marketers to data scientists) or IoT devices. To facilitate the process, your core IT team can provide these sectors with the digital tools they need to innovate quickly. This report explores: Key cultural and organizational changes for developing business capabilities through cross-functional product teams A platform for integrating applications, data sources, business partners, clients, mobile apps, social networks, and IoT devices Creating internal API programs for building innovative edge services in low-code or no-code environments Tools including Integration Platform as a Service, Application Platform as a Service, and Integration Software as a Service The challenge of integrating microservices and serverless architectures Event-driven architectures for processing and reacting to events in real time You'll also learn about a complete pervasive integration solution as a core component of a digital business platform to serve every audience in your organization.

"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

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

As organizations shift from monolithic applications to smaller, self-contained microservices, distributed systems have become more fine-grained. But developing these new systems brings its own host of problems. This expanded second edition takes a holistic view of topics that you need to consider when building, managing, and scaling microservices architectures. Through clear examples and practical advice, author Sam Newman gives everyone from architects and developers to testers and IT operators a firm grounding in the concepts. You'll dive into the latest solutions for modeling, integrating, testing, deploying, and monitoring your own autonomous services. Real-world cases reveal how organizations today manage to get the most out of these architectures. Microservices technologies continue to move quickly. This book brings you up to speed. Get new information on user interfaces, container orchestration, and serverless Align system design with your organization's goals Explore options for integrating a service with your system Understand how to independently deploy microservices Examine the complexities of testing and monitoring distributed services Manage security with expanded content around user-to-service and service-to-service models

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.

Learn to develop, test, and deploy your Spring Boot distributed application and explore various best practices. Key Features Build and deploy your microservices architecture in the cloud Build event-driven resilient systems using Hystrix and Turbine Explore API management tools such as KONG and API documentation tools such as Swagger Book Description Spring is one of the best frameworks on the market for developing web, enterprise, and cloud ready software. Spring Boot simplifies the building of complex software dramatically by reducing the amount of boilerplate code, and by providing production-ready features and a simple deployment model. This book will address the challenges related to power that come with Spring Boot's great configurability and flexibility. You will understand how Spring Boot configuration works under the hood, how to overwrite default configurations, and how to use advanced techniques to prepare Spring Boot applications to work in production. This book will also introduce readers to a relatively new topic in the Spring ecosystem – cloud native patterns, reactive programming, and applications. Get up to speed with microservices with Spring Boot and Spring Cloud. Each chapter aims to solve a specific problem or teach you a useful skillset. By the end of this book, you will be proficient in building and deploying your Spring Boot application. What you will learn Build logically structured and highly maintainable Spring Boot applications Configure RESTful microservices using Spring Boot Make the application production and operation-friendly with Spring Actuator Build modern, high-performance distributed applications using cloud patterns Manage and deploy your Spring Boot application to the cloud (AWS) Monitor distributed applications using log aggregation and ELK Who this book is for The book is targeted at experienced Spring and Java developers who have a basic knowledge of working with Spring Boot. The reader should be familiar with Spring Boot basics, and aware of its benefits over traditional Spring Framework-based applications.

Organizations today often struggle to balance business requirements with ever-increasing volumes of data. Additionally, the demand for leveraging large-scale, real-time data is growing rapidly among the most competitive digital industries. Conventional system architectures may not be up to the task. With this practical guide, you'll learn how to leverage large-scale data usage across the business units in your organization using the principles of event-driven microservices. Author Adam Bellemare takes you through the process of building an event-driven microservice-powered organization. You'll reconsider how data is produced, accessed, and propagated across your organization. Learn powerful yet simple patterns for unlocking the value of this data. Incorporate event-driven design and architectural principles into your own systems. And completely rethink how your organization delivers value by unlocking near-real-time access to data at scale. You'll learn: How to leverage event-driven architectures to deliver exceptional business value The role of microservices in supporting event-driven designs Architectural patterns to ensure success both within and between teams in your organization Application patterns for developing powerful event-driven microservices Components and tooling required to get your microservice ecosystem off the ground

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.

How do you detangle a monolithic system and migrate it to a microservice architecture? How do you do it while maintaining business-as-usual? As a companion to Sam Newman's extremely popular Building Microservices, this new book details a proven method for transitioning an existing monolithic system to a microservice architecture. With many illustrative examples, insightful migration patterns, and a bevy of practical advice to transition your monolith enterprise into a microservice operation, this practical guide covers multiple scenarios and strategies for a successful migration, from initial planning all the way through application and database decomposition. You'll learn several tried and tested patterns and techniques that you can use as you migrate your existing architecture. Ideal for organizations looking to transition to microservices, rather than rebuild Helps companies determine whether to migrate, when to migrate, and where to begin Addresses communication, integration, and the migration of legacy systems Discusses multiple migration patterns and where they apply Provides database migration examples, along with synchronization strategies Explores application decomposition, including several architectural refactoring patterns Delves into details of database decomposition, including the impact of breaking referential and transactional integrity, new failure modes, and more

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