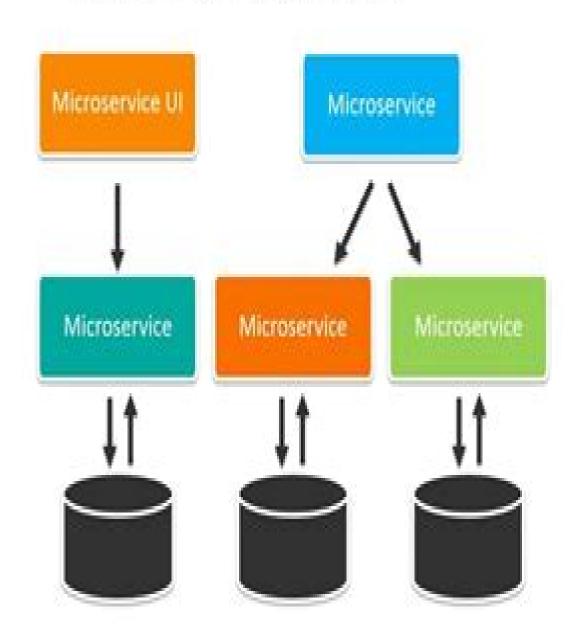
Monolithic Architecture

User Interface **Business Layer** Data Interface

Microservices Architecture



Monolithic Architecture

Dinesh Rajput

Monolithic Architecture:

Monolithic Architecture Rodolfo Machado, Rodolphe El-Khoury, Detlef Mertins, 1995 Looking closely at several buildings in Europe Japan and America this book sets out to define monolithic architecture in its larger context searching for its physical and conceptual roots in earlier times and proposing reasons why such structures provoke emphatic public **Incremental Software Architecture** Michael Bell,2016-01-14 The best practices solution guide for rescuing response broken software systems Incremental Software Architecture is a solutions manual for companies with underperforming software systems With complete guidance and plenty of hands on instruction this practical guide shows you how to identify and analyze the root cause of software malfunction then identify and implement the most powerful remedies to save the system You ll learn how to avoid developing software systems that are destined to fail and the methods and practices that help you avoid business losses caused by poorly designed software Designed to answer the most common questions that arise when software systems negatively impact business performance this guide details architecture and design best practices for enterprise architecture efforts and helps you foster the reuse and consolidation of software assets Relying on the wrong software system puts your company at risk of failing It's a question of when not if something goes catastrophically wrong This guide shows you how to proactively root out and repair the most likely cause of potential issues and how to rescue a system that has already begun to go bad Mitigate risks of software development projects Increase ROI and accelerate time to market Accurately assess technological achievability and viability Identify actual software construction value propositions Fierce competition and volatile commerce markets drive companies to invest heavily in the construction of software systems which strains IT and business budgets and puts immense strain on existing network infrastructure As technology evolves these ever more complex computing landscapes become more and more expensive and difficult to maintain Incremental Software Architecture shows you how to revamp the architecture to effectively reduce strain cost and the chance of failure

Building Microservices Sam Newman, 2021-07-24 Distributed systems have become more fine grained as organizations shift from code heavy monolithic applications to smaller self contained microservices But developing these systems brings its own set of problems With lots of examples and practical advice this expanded second edition takes a holistic view of the topics system architects and administrators must consider when building managing and evolving microservices architectures Author Sam Newman provides you with a firm grounding in the concepts while diving into the latest solutions for modeling integrating testing deploying and monitoring your own autonomous services Through real world examples you ll learn how organizations worldwide are getting the most out of these architectures Microservices technologies are moving quickly This book brings you up to speed Get new information on user interfaces container orchestration and serverless Use microservices to align system design with your organization s goals Explore options for integrating a service with the rest of your system Take an incremental approach when splitting monolithic codebases Deploy individual microservices through

continuous integration Examine the complexities of testing and monitoring distributed services Manage security with expanded content around user to service and service to service models Understand the challenges of scaling microservices architectures Data Mesh Zhamak Dehghani,2022-03-08 Many enterprises are investing in a next generation data lake hoping to democratize data at scale to provide business insights and ultimately make automated intelligent decisions In this practical book author Zhamak Dehghani reveals that despite the time money and effort poured into them data warehouses and data lakes fail when applied at the scale and speed of today s organizations A distributed data mesh is a better choice Dehghani guides architects technical leaders and decision makers on their journey from monolithic big data architecture to a sociotechnical paradigm that draws from modern distributed architecture A data mesh considers domains as a first class concern applies platform thinking to create self serve data infrastructure treats data as a product and introduces a federated and computational model of data governance This book shows you why and how Examine the current data landscape from the perspective of business and organizational needs environmental challenges and existing architectures Analyze the landscape s underlying characteristics and failure modes Get a complete introduction to data mesh principles and its constituents Learn how to design a data mesh architecture Move beyond a monolithic data lake to a distributed data mesh

Playing with Java Microservices on Kubernetes and OpenShift Nebrass Lamouchi, Playing with Java Microservices on Kubernetes and OpenShift will teach you how to build and design microservices using Java and the Spring platform This book covers topics related to creating Java microservices and deploy them to Kubernetes and OpenShift Traditionally Java developers have been used to developing large complex monolithic applications. The experience of developing and deploying monoliths has been always slow and painful This book will help Java developers to guickly get started with the features and the concerns of the microservices architecture It will introduce Docker Kubernetes and OpenShift to help them deploying their microservices The book is written for Java developers who wants to build microservices using the Spring Boot Cloud stack and who wants to deploy them to Kubernetes and OpenShift You will be guided on how to install the appropriate tools to work properly For those who are new to Enterprise Development using Spring Boot you will be introduced to its core principles and main features thru a deep step by step tutorial on many components For experts this book offers some recipes that illustrate how to split monoliths and implement microservices and deploy them as containers to Kubernetes and OpenShift The following are some of the key challenges that we will address in this book Introducing Spring Boot Cloud for beginners Splitting a monolith using the Domain Driven Design approach Implementing the cloud microservices patterns Rethinking the deployment process Introducing containerization Docker Kubernetes and OpenShift By the end of reading this book you will have practical hands on experience of building microservices using Spring Boot Cloud and you will master deploying them as containers to Kubernetes and OpenShift Go Lang in Depth Bhagvan Kommadi, 2024-12-26 DESCRIPTION Go a modern and efficient programming language is rapidly gaining popularity for building robust and

scalable applications This book Go Lang in Depth instills you with the knowledge and skills to master Go from its fundamental building blocks to advanced concepts This Go programming book provides a detailed guide starting from basic syntax and data structures to advanced concepts like concurrency and error handling It teaches you how to build applications including console apps REST APIs and web apps using popular frameworks like Gin and Beego You will also explore creating real world projects such as a CRM system and understand advanced topics like dependency injection SOLID principles and Docker containerization The book covers performance optimization with profiling and benchmarking ensures application security with authentication and cryptography and explains design patterns and best practices for building scalable secure web applications By the end of this book you will be equipped to write clean concurrent and performant Go code You will understand how to design and implement complex functionalities leverage Go s powerful features effectively and tackle real world programming challenges KEY FEATURES From beginner to advanced this book covers all aspects of Go programming Learn by implementing practical examples and real world projects Follow industry best practices for writing clean efficient and maintainable Go code WHAT YOU WILL LEARN Practical approach with hands on exercises real world examples and practical projects Gain a thorough understanding of Go's core concepts including concurrency error handling and testing Learn to containerize Go applications with Docker and deploy them to production environments Implement security measures and optimize the performance of your Go applications WHO THIS BOOK IS FOR Whether you are a software engineer data scientist or system administrator this book will help you harness the power of Go to build efficient scalable and reliable applications No prior knowledge of Go is required but a basic understanding of programming concepts will be beneficial TABLE OF CONTENTS 1 Go Fundamentals 2 Advanced Features of Go 3 Go Console Applications 4 Building REST API 5 Go Web Apps 6 RPC Apps with gRPC 7 Go Real Life Applications CRM 8 Go Concurrent Apps 9 Go Dependency Injection and SOLID 10 Containerization and Docker 11 Go Microservices 12 Adding Security and IAM 13 Go Design Patterns Part 1 14 Go Design Patterns Part 2 15 Go Performance Tuning Patterns 16 Go Web App Blueprints 17 Go Mobile **Applications Blueprints** Hands-On Microservices with JavaScript Tural Suleymani, 2024-12-20 Build test and deploy scalable cloud ready apps using modern tools and solve complex real world problems with case studies Key Features Learn microservices architecture for scalable cloud ready applications Build hands on projects with Node js Express js NestJS and Kafka Master CI CD pipelines security and monitoring for robust microservices Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionKeep up with the ever evolving web development landscape by mastering JavaScript microservices with expert guidance from Tural Suleymani a full stack software engineer architect software development teacher Microsoft MVP and three time C Corner MVP He distills over a decade of experience crafting high performance scalable solutions into this guide He ll walk you through the fundamentals of microservices providing a solid foundation in architecture design principles and the necessary tools and technologies From beginners to seasoned developers this book

offers a clear pathway to mastering microservices with JavaScript With the help of hands on tasks that simulate real world scenarios you ll learn how to build reliable and scalable microservices You ll explore synchronous and asynchronous communication real time data streaming and how to secure and monitor your services. The book s emphasis on a design first approach ensures that your microservices are maintainable and future proof Detailed case studies from industry experts will enhance your learning experience and provide practical insights into building microservices in production environments By the end of this book you ll be ready to create cloud ready high performing microservices using cutting edge JavaScript frameworks and tools and tackle real world challenges ensuring your applications are secure and efficient What you will learn Understand synchronous and asynchronous communication between microservices Discover how to decouple microservices using Message Broker Build real time data streaming microservices with IS frameworks Understand logging and monitoring in microservices Explore common architectural patterns for microservices Cover microservices with unit and integration tests Apply CI CD for microservices and learn to Dockerize and deploy them Who this book is for This book is for backend developers full stack developers software architects and frontend developers who want to venture into the world of microservices A fundamental understanding of the JavaScript ecosystem will be helpful but not necessary as this book will cover the essentials of microservices architecture JavaScript programming and modern frameworks and tools for building scalable maintainable applications DevOps: A Journey from Microservice to Cloud Based Containerization Hitesh Kumar Sharma, Anuj Kumar, Sangeeta Pant, Mangey Ram, 2024-01-23 Transitioning to DevOps requires a change in culture and mindset At its simplest DevOps is about removing the barriers between two traditionally siloed teams development and operations In some organizations there may not even be separate development and operations teams engineers may do both With DevOps the two teams work together to optimize both the productivity of developers and the reliability of operations They strive to communicate frequently increase efficiencies and improve the quality of services they provide to customers They take full ownership for their services often beyond where their stated roles or titles have traditionally been scoped by thinking about the end customer's needs and how they can contribute to meeting those needs Quality assurance and security teams may also become tightly integrated within these teams Organizations using a DevOps model regardless of their organizational structure have teams that view the entire development and infrastructure lifecycle as part of their responsibilities In this book we introduce the DevOps culture and the tools and techniques under this technical cultural umbrella We explain microservice containers Docker Container Kubernetes etc and the significance of these in adopting the DevOps culture for successful software development Embracing DevOps Release Management Joel Kruger, 2024-04-12 Unlock the power of DevOps release management to elevate your software development with early quality checks testing automation and QA integration reshaping your software delivery life cycle for excellence Key Features Understand the SDLC and the most popular release management models Learn what makes DevOps unique and how CI CD pipelines enforce good

DevOps release management Drive a culture driven release management initiative in your organization that breaks down silos Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionAt the core of software development lies the imperative of swiftly and reliably releasing new features and updates emphasizing the vital role of release management in the DevOps methodology Discover how software development teams can elevate their processes by incorporating quality checks and shifting left moving testing automation and QA procedures much earlier into the SDLC However release management is still tasked with application monitoring overseeing infrastructure components and managing change orders and schedules This book offers insights into the essence of DevOps Release Management illuminating its nuances and providing basic strategies for its implementation You ll explore how CI CD pipelines enforce good DevOps release management and master techniques to optimize them You ll also learn how to foster a culture of cross functional product development that minimizes waste and maximizes value to the customer By the end of the book you ll have gained a comprehensive understanding of DevOps release management its benefits and practical implementation strategies Equipped with this knowledge you ll be able to assess your own development processes and identify areas for improvement ultimately leading to increased efficiency collaboration and value creation What you will learn Discover the significance and anatomy of the SDLC Understand the history of release management and how various models work Grasp DevOps release management and basic strategies to implement it Construct optimized CI CD pipelines capable of early issue detection Implement the shift left approach to enhance value delivery to customers at record speed Foster a culture of cross functional collaboration in your team Make DevOps release management pragmatic and accessible Overcome common pitfalls in DevOps release management Who this book is for This book is a comprehensive introduction for those who are new to DevOps release management but it s also valuable for DevOps engineers and release managers looking to enhance their skills and knowledge If you re looking to adopt key practices to shift left this book will enable you to build high quality products in Microservices: Novice To Ninja Rob Botwright, 2024 MICROSERVICES NOVICE TO NINJA Are you ready to record time level up your microservices game Dive into the ultimate guide with our comprehensive book bundle Microservices Novice to Ninja BOOK 1 MICROSERVICES 101 Embark on your journey into the world of distributed systems with our beginner's guide Learn the fundamentals of microservices architecture from decoupling to scalability Perfect for those new to the concept BOOK 2 ARCHITECTING MICROSERVICES Take your skills to the next level with strategies for designing scalable and resilient systems Discover essential design patterns and principles like bounded contexts and aggregates Build systems that can adapt and evolve effortlessly BOOK 3 MASTERING MICROSERVICES Ready for the big leagues Learn advanced techniques for optimizing performance and security Dive into performance tuning security best practices and more Become a master of microservices optimization BOOK 4 MICROSERVICES MASTERY Unlock expert insights into deployment monitoring and maintenance Automate deployment pipelines monitor system health and troubleshoot issues like a pro Ensure your microservices are always running smoothly With Microservices Novice to Ninja you ll have everything you need to build design and deploy distributed services like a true expert Don t miss out on this essential book bundle for mastering microservices architecture Modern JavaScript Applications Narayan Prusty, 2016-07-25 An example driven guide that explores the world of modern web development with JavaScript About This Book Explore the new features of ECMAScript 6 and how they can be incorporated to build cutting edge web applications Learn about modern web architectures and build real world apps on top of them Make use of modern JavaScript tools techniques and frameworks to enhance your web development skills Who This Book Is For This book is for existing JavaScript developers who want to explore some of the modern JavaScript features techniques and architectures to develop cutting edge web applications What You Will Learn Learn to create single page websites Gain expertise in responsive and dynamic website design Enable Real time communications between client client and client server server client Create APIs for large scale applications Write complete applications using functional reactive programming In Detail Over the years JavaScript has taken significant strides in the world of modern web development to enhance the development of a wide range of applications with different architectures This book explores the advanced and new features that have arrived in JavaScript and how they can be applied to develop high quality applications with different architectures The book begins by covering a single page application that builds on the innovative MVC approach using Angular S As we move forward the book shows you how to develop an enterprise level application with the microservices architecture using Node to build web services. We then focus on network programming concepts and you ll build a real time web application with websockets When you ve gained a solid grip on the different architectures well move on to the area where JavaScript shines that is UI development You ll learn to build responsive declarative UIs with React and Bootstrap As we near the end of this book you ll see how the performance of web applications can be enhanced using Functional Reactive Programming FRP Along the way the book also explores how the power of JavaScript can be increased multi fold After reading this book you will have a solid knowledge of the latest JavaScript techniques tools and architecture to build modern web apps Style and approach Covering all the new features in ECMAScript 6 this book takes a project based approach to introduce you to all the latest techniques tools and architectures of JavaScript web development Each project that the book builds will show you a different angle of the power of JavaScript in modern web AWS Certified Solutions Architect - Foundational (SAF-C01) Cybellium, Welcome to the forefront of development knowledge with Cybellium your trusted partner in mastering the cutting edge fields of IT Artificial Intelligence Cyber Security Business Economics and Science Designed for professionals students and enthusiasts alike our comprehensive books empower you to stay ahead in a rapidly evolving digital world Expert Insights Our books provide deep actionable insights that bridge the gap between theory and practical application Up to Date Content Stay current with the latest advancements trends and best practices in IT Al Cybersecurity Business Economics and Science Each guide is regularly

updated to reflect the newest developments and challenges Comprehensive Coverage Whether you re a beginner or an advanced learner Cybellium books cover a wide range of topics from foundational principles to specialized knowledge tailored to your level of expertise Become part of a global network of learners and professionals who trust Cybellium to guide their educational journey www cybellium com **Handbook of Artificial Intelligence and Data Sciences for Routing Problems** Carlos A.S. Oliveira, Miltiades P. Pardalos, 2025-03-13 This handbook delves into the rapidly evolving field of artificial intelligence and optimization focusing on the intersection of machine learning combinatorial optimization and real world applications in transportation and network design Covering an array of topics from classical optimization problems such as the Traveling Salesman Problem and the Knapsack Problem to modern techniques including advanced heuristic methods Generative Adversarial Networks and Variational Autoencoders this book provides a roadmap for solving complex problems The included case studies showcase practical implementations of algorithms in predicting route sequences traffic management and eco friendly transportation This comprehensive guide is essential for researchers practitioners and students interested in AI and optimization Whether you are a researcher seeking standard approaches or a professional looking for practical solutions to industry challenges this book offers valuable insights into modern AI algorithms

Hands-On Microservices - Monitoring and Testing Dinesh Rajput, 2018-10-30 Learn and implement various techniques related to testing monitoring and optimization for microservices architecture Key FeaturesLearn different approaches for testing microservices to design and implement robust and secure applications Become more efficient while working with microservices Explore Testing and Monitoring tools such as [Meter Ready API and AppDynamicsBook Description Microservices are the latest right way of developing web applications Microservices architecture has been gaining momentum over the past few years but once you ve started down the microservices path you need to test and optimize the services This book focuses on exploring various testing monitoring and optimization techniques for microservices The book starts with the evolution of software architecture style from monolithic to virtualized to microservices architecture Then you will explore methods to deploy microservices and various implementation patterns With the help of a real world example you will understand how external APIs help product developers to focus on core competencies After that you will learn testing techniques such as Unit Testing Integration Testing Functional Testing and Load Testing Next you will explore performance testing tools such as JMeter and Gatling Then we deep dive into monitoring techniques and learn performance benchmarking of the various architectural components For this you will explore monitoring tools such as Appdynamics Dynatrace AWS CloudWatch and Nagios Finally you will learn to identify address and report various performance issues related to microservices What you will learnUnderstand the architecture of microservices and how to build servicesEstablish how external APIs help to accelerate the development processUnderstand testing techniques such as unit testing integration testing end to end testing and UI functional testing Explore various tools related to the performance testing monitoring and

optimization of microservicesDesign strategies for performance testing Identify performance issues and fine tune performanceWho this book is for This book is for developers who are involved with microservices architecture to develop robust and secure applications Basic knowledge of microservices is essential in order to get the most out of this book The Software Principles of Design for Data Modeling Samanta, Debabrata, 2023-09-12 The Software Principles of Design for Data Modeling written by Debabrata Samanta of Rochester Institute of Technology in Kosovo offers a practical and comprehensive solution to the challenges of designing effective software architecture for data modeling This book covers key topics such as gathering requirements modeling requirements with use cases testing the system building entity relationship models building class models in UML with patterns of data modeling and software quality attributes and use case modeling It also includes case studies of relational and object relational database schema design The unique approach of this book lies in its unifying method for designing software architecture for data modeling It addresses specific design issues for various types of software systems including object oriented client server service oriented component based real time and software product line architectures With its practical guidance standard method for modeling requirements and analysis and comprehensive coverage of key topics and case studies this book is a must read for anyone interested in designing effective software architecture for data modeling whether you are an academic scholar or a professional in the field Cloud Professionals Manjit Chakraborty, Neeraj Roy, 2024-11-08 DESCRIPTION Unlock the power of AWS and elevate your cloud expertise with Mastering AWS for Cloud Professionals This comprehensive guide illuminates the path to cloud mastery offering a blend of theoretical knowledge and practical expertise Dive deep into Amazon Web Services AWS exploring its vast potential to revolutionize business operations and IT infrastructure This book offers a visually enriched approach to learning AWS using diagrams and illustrations to simplify complex concepts Drawing from real world experiences it provides practical insights into implementing AWS in enterprise environments Learn containerization through practical case studies and industry proven methodologies and master AWS monitoring tools for optimizing cloud based applications and infrastructure This comprehensive guide ensures a deep understanding of AWS solutions for practical use With real life scenarios and practical examples woven throughout you will not only understand AWS solutions but will also be able to apply them effectively You will be well versed in leveraging AWS services to design deploy and manage secure scalable and cost effective cloud solutions You will understand how to optimize your cloud environment for performance and efficiency ensuring your applications are always available and reliable KEY FEATURES Comprehensive exploration of cloud computing principles and AWS specific methodologies Simplify complex AWS concepts with clear visual diagrams and illustrations Bridge the gap between theory and practice with industry relevant architectures WHAT YOU WILL LEARN Master AWS architectural fundamentals and build flexible scalable cloud solutions Design and deploy high performance globally distributed applications Harness the power of containerization and serverless computing paradigms Architect microservices and apply

AWS Well Architected Framework best practices Leverage data analytics and machine learning capabilities in cloud environments Secure monitor analyze and optimize AWS deployments using native observability tools WHO THIS BOOK IS FOR This book is tailored for a diverse audience of technology professionals including cloud architects system engineers software developers and IT operations specialists This comprehensive guide serves as an excellent resource for those preparing for the AWS Solution Architect certification exam TABLE OF CONTENTS 1 AWS Architectural Fundamentals 2 AWS Networking Basic Constructs 3 AWS Networking Advanced Constructs 4 AWS Compute 5 AWS Storage 6 AWS Database 7 Data Analytics 8 Containers in AWS ECS 9 Containers in AWS EKS 10 Microservices 11 ML and GenAI 12 Security in AWS 13 Observability in AWS Managing Data as a Product Andrea Gioia, 2024-11-29 Learn everything you need to know to manage data as a product and shift toward a more modular and decentralized socio technical data architecture to deliver business value in an incremental measurable and sustainable way Key Features Leverage data as product to unlock the modular platform potential and fix flaws in traditional monolithic architectures Learn how to identify implement and operate data products throughout their life cycle Design and execute a forward thinking strategy to turn your data products into organizational assets Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionTraditional monolithic data platforms struggle with scalability and burden central data teams with excessive cognitive load leading to challenges in managing technological debt As maintenance costs escalate these platforms lose their ability to provide sustained value over time With two decades of hands on experience implementing data solutions and his pioneering work in the Open Data Mesh Initiative Andrea Gioia brings practical insights and proven strategies for transforming how organizations manage their data assets Managing Data as a Product introduces a modular and distributed approach to data platform development centered on the concept of data products In this book you ll explore the rationale behind this shift understand the core features and structure of data products and learn how to identify develop and operate them in a production environment The book guides you through designing and implementing an incremental value driven strategy for adopting data product centered architectures including strategies for securing buy in from stakeholders Additionally it explores data modeling in distributed environments emphasizing its crucial role in fully leveraging modern generative AI solutions By the end of this book you ll have gained a comprehensive understanding of product centric data architecture and the essential steps needed to adopt this modern approach to data management What you will learn Overcome the challenges in scaling monolithic data platforms including cognitive load tech debt and maintenance costs Discover the benefits of adopting a data as a product approach for scalability and sustainability Navigate the complete data product lifecycle from inception to decommissioning Automate data product lifecycle management using a self serve platform Implement an incremental value driven strategy for transitioning to data product centric architectures Optimize data modeling in distributed environments to enhance GenAI based use cases Who this book is for If you re an experienced data

engineer data leader architect or practitioner committed to reimagining your data architecture and designing one that enables your organization to get the most value from your data in a sustainable and scalable way this book is for you Whether you re a staff engineer product manager or a software engineering leader or executive you ll find this book useful Familiarity with basic data engineering principles and practices is assumed gRPC Microservices in Go Hüseyin Babal, 2024-01-09 Build super fast and super secure microservices with the qRPC high performance messaging protocol and powerful Go language In gRPC Microservices in Go you ll learn Designing and implementing resilient microservice architecture Testing microservices Deploying microservices to the cloud with modern orchestration tools Monitoring and overseeing microservices The powerful gRPC Remote Procedure Call framework delivers superior speed and security over protocols like REST When paired with Golang's low level efficiency and flexibility gRPC and Go become a killer combination for latency sensitive microservices applications gRPC Microservices in Go shows you how to utilize these powerful tools to build production grade microservices You ll learn to develop microservice inter service communication patterns that are powered by gRPC design backward compatible APIs and apply hexagonal architecture to microservices About the technology Go is perfect for writing fast reliable microservices code but that s only half the story You also need a communications framework like gRPC to connect your services and handle load balancing tracing health checking and authentication Together Go and gRPC accelerate the development process and eliminate many of the challenges you face when building and deploying microservices About the book qRPC Microservices in Go teaches you how to build production ready microservices using Go and gRPC In it you ll learn to create efficient APIs in Go use gRPC for network communication and deploy on cloud and Kubernetes Helpful examples including a complete eCommerce web app make it easy to grasp each concept You ll also get an inside look at testing deployment and efficient DevOps practices for microservices What's inside Designing and implementing resilient microservice architecture Testing microservices Cloud deploying microservices with orchestration tools Monitoring and overseeing microservices About the reader For software developers who know the basics of Go About the author H seyin Babal has been using Go in production since 2017 to build and maintain SaaS platforms Table of Contents PART 1 GRPC AND MICROSERVICES ARCHITECTURE 1 Introduction to Go gRPC microservices 2 gRPC meets microservices PART 2 DEVELOPING TESTING AND DEPLOYING A GRPC MICROSERVICE APPLICATION 3 Getting up and running with gRPC and Golang 4 Microservice project setup 5 Interservice communication 6 Resilient communication 7 Testing microservices 8 Deployment PART 3 GRPC AND MICROSERVICES ARCHITECTURE 9 Observability **IavaScript**: Moving to ES2015 Ved Antani, Simon Timms, Narayan Prusty, 2017-03-24 Explore and master modern JavaScript techniques with ES2015 in order to build large scale web applications About This Book This course offers an expert s eye on the latest ES6 features and how these advanced tasks fit together in JavaScript as a whole Discover robust JavaScript implementations of classic and advanced design patterns Learn about modern web architectures and build real world apps on top of them Who

This Book Is For This course is for experienced developers familiar with other object oriented languages who wants to learn new capabilities of ES 2015 to improve their web development skills and build professional quality web applications This also goes for those who want to explore some modern JavaScript features techniques and architectures in order to develop cutting edge web applications What You Will Learn Get a run through of the basic language constructs Functions and Closures of JavaScript Code using the powerful object oriented feature in JavaScript Master DOM manipulation cross browser strategies and ES6 Harness the power of patterns for tasks ranging from application building to code testing Identify the best use cases for microservices Gain expertise in responsive and dynamic website design Enable real time communications between client client and client server server client Write complete applications using functional reactive programming In Detail JavaScript is a high level dynamic untyped lightweight and interpreted programming language Mastering modern JavaScript techniques and the toolchain are essential to develop web scale applications This Learning Path will upgrade your skills to ES2015 and you will get to introduce yourself to popular frameworks like React and Angular 2 In the first module you will get familiar with the language constructs and how to make code easy to organize You will gain a concrete understanding of variable scoping loops and best practices on using types and data structures as well as the coding style and recommended code organization patterns in JavaScript By the end of the module you will understand how reactive JavaScript is going to be the new paradigm Over the course of the next module you will explore how design patterns can help you improve and organize your JavaScript code You ll get to grips with creational structural and behavioral patterns and get a deeper look at patterns used in functional programming as well as model view patterns and patterns to build web applications By the end of the module you ll be saved of a lot of trial and error and developmental headaches and you will be on the road to becoming a JavaScript expert In the last leg of this course you will shift your focus to network programming concepts as you build a real time web application with websockets Along the way you ll explore how the power of JavaScript can be increased multi fold with high performance techniques By the end of this module you ll be a skilled JavaScript developer with a solid knowledge of the latest JavaScript techniques tools and architecture to build modern web apps This Learning Path combines some of the best that Packt has to offer in one complete curated package It includes content from the following Packt products Mastering JavaScript by Ved Antani Mastering JavaScript Design Patterns Second Edition by Simon Timms Modern JavaScript Applications by Narayan Prusty Style and approach This course is a comprehensive guide with a clear focus on practical use cases and patterns Each chapter consists of best practices useful advice and a bunch of easy to follow examples that will build up your skills as you advance Operating System Concepts Ekta Walia, This is a revised edition of the eight years old popular book on operating System Concepts In Addition to its previous contents the book details about operating system foe handheld devices like mobile platforms It also explains about upcoming operating systems with have interface in various Indian language In addition to solved exercises of individual chapters the revised

version also presents a question bank of most frequently asked questions and their solutions Value addition has been done in almost all the 14 chapters of the book

Monolithic Architecture Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the ability of words has be much more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such is the essence of the book **Monolithic Architecture**, a literary masterpiece that delves deep to the significance of words and their affect our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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Monolithic Architecture Introduction

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