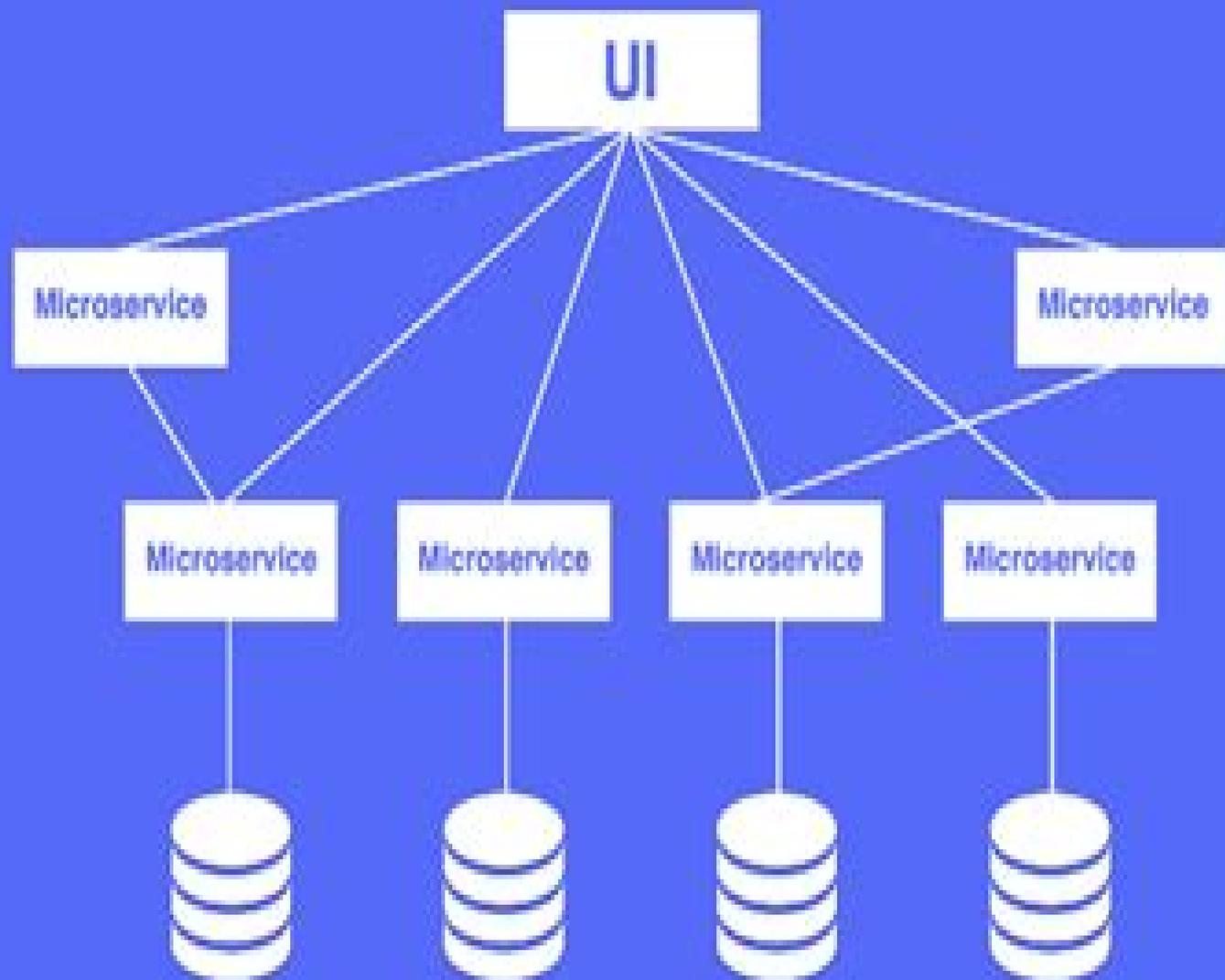Monolithic Architecture

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   PHP Microservices Carlos Perez Sanchez,Pablo Solar Vilarino,2017-03-29 Transit from monolithic architectures to highly available scalable and fault tolerant microservices About This Book Build your own applications based on event driven microservices and set them up on a production server Successfully transform any monolithic application into a microservice Monitor the health of your application prevent downtime and reduce costs Who This Book Is For PHP developers who want to build scalable highly available and secure applications will find this book useful No knowledge of microservices is assumed What You Will Learn Set up a development environment using the right strategies and tools Learn about application design and structure to start implementing your application Transform a monolithic application into microservices Explore the best way to start implementing your application using testing Understand how to monitor your microservices handle errors and debug the application Deploy your finished application into a production environment and learn how to solve common problems Know how to scale your application based on microservices once it is up and running In Detail The world is moving away from bulky unreliable and high maintenance PHP applications to small easy to maintain and highly available microservices and the pressing need is for PHP developers to understand the criticalities in building effective microservices that scale at large This book will be a reliable resource and one that will help you to develop your skills and teach you techniques for building reliable microservices in PHP The book begins with an introduction to the world of microservices and quickly shows you how to set up a development environment and build a basic platform using Docker and Vagrant You will then get into the different design aspects to be considered while building microservices in your favorite framework and you will explore topics such as testing securing and deploying microservices You will also understand how to migrate a monolithic application to the microservice architecture while keeping scalability and best practices in mind Furthermore you will get into a few important DevOps techniques that will help you progress on to more complex domains such as native cloud development as well as some interesting design patterns By the end of this book you will be able to develop applications based on microservices in an organized and efficient way You will also gain the knowledge to transform any monolithic applications into microservices Style and approach Filled with code that you can start typing straightaway this book will take you through building testing securing and deploying microservices in the most practical way possible The focus of the book is more inclined towards showing you how it s done rather than with what to do although you will get a good idea of those tools most widely used to build microservices   Lumen Programming Guide Paul Redmond,2016-09-23 Learn to write test driven microservices REST APIs and web service APIs with PHP using the Lumen micro framework from the now popular Laravel family This book shows you how testing APIs can help you write bullet proof web application services and microservices In the Lumen Programming Guide you will learn how to use Lumen a micro framework by Laravel to write bullet proof APIs Lumen helps you write productive maintainable APIs using modern application design You will learn how to write fully tested

APIs and understand essential Lumen concepts used to build a solid foundation for writing API projects What You Will Learn Maintain your API s database structure through built in database migrations Write tests with factory data in a test database Respond with consistent data output in JSON Deal with PHP exceptions by using JSON responses Create read update and delete REST resources Represent model associations in API responses Build a solid foundation for writing tests with PHPUnit and Mockery Validate data Who This Book Is For PHP developers with no Laravel experience Only a basic understanding of HTTP and writing PHP applications is needed to get started   <u>Getting Started with Microservices in PHP</u> Brad Bonkoski,2017 Microservices aka the microservice architecture is an architectural style that structures an application as a collection of loosely coupled services The microservice architecture enables the continuous delivery deployment of large complex applications and enables faster better delivery of value to implement business capabilities thus enabling an organization to evolve its technology stack It enables organizations to scale their products and add or adapt services efficiently Companies can deliver software faster and more efficiently in order to compete in the dynamic markets of today and tomorrow while at the same time keeping their products fast secure and stable Lately microservices have gained far more attention due to their use as the architecture pattern of choice at companies such as Google Facebook Twitter Netflix and many more prominent technology companies and startups The course starts with the basics of microservices and helps you understand the important tools required to develop and validate them Moving ahead we will set up and create the right environment before we start building your microservice The 2nd section is all about testing and will teach you to publish containers The videos cover Docker and Vagrant Finally towards the end you will learn to deploy and monitor your published microservice Resource description page   **Introduction to PHP Web Services** Imran Ghani,2019-01-14 This book covers latest topics including RESTful RPC SOAP Microservices Webhook WSDL and more I ve provided working examples with code throughout the book The code and examples are in PHP JavaScript JSON XML MySQL and WSDL Each example has screen shot output so that you could match your output with the correct output I provide I chose PHP to write this book because PHP is ready to develop RESTful and SOAP webservices PHP is platform independent and widely used in developing data driven Websites   **Building RESTful Web Services with PHP 7** Haafiz Waheed-ud-din Ahmad,2017-09-11 Learn how to build RESTful API and web services in PHP 7 About This Book Leverage the Lumen framework to build RESTful API endpoints for your applications Understand how to increase efficiency and security of your web service Learn to apply the concepts by implementing the examples covered in the book Who This Book Is For This book is for PHP developers who wish to learn about the REST architecture to be able to build and consume REST APIs in their applications What You Will Learn Understand the REST API architecture and its benefits Write RESTful API web services in PHP 7 Address security elated issues in a REST API Leverage the importance of automated testing and write tests for API endpoints Identify security flaws in our current API endpoints and tackle them effectively Observe the working of Lumen microframeworks and write RESTful

web services in it In Detail REST is the most wide spread and effective standard to develop APIs for internet services With the way PHP and its eco system has modernized the way code is written by simplifying various operations it is useful to develop RESTful APIs with PHP 7 and modern tools This book explains in detail how to create your own RESTful API in PHP 7 that can be consumed by other users in your organization Starting with a brief introduction to the fundamentals of REST architecture and the new features in PHP 7 you will learn to implement basic RESTful API endpoints using vanilla PHP The book explains how to identify flaws in security and design and teach you how to tackle them You will learn about composer Lumen framework and how to make your RESTful API cleaner secure and efficient The book emphasizes on automated tests teaches about different testing types and give a brief introduction to microservices which is the natural way forward After reading this book you will have a clear understanding of the REST architecture and you can build a web service from scratch Style and approach This book will get you started with REST architecture and will also teach you different methods to build web services from scratch *Full Stack Development with JHipster* Deepu K. Sasidharan,Sendil Kumar N,2018 Discover the world of Full Stack Development with real world examples Key Features Leverage the full power of the JHipster platform to build complex web applications Create microservices from scratch and convert JHipster monolith apps into microservices Build and deploy applications locally in Docker and on various cloud platforms Book Description JHipster is a development platform to generate develop and deploy Spring Boot and Angular React applications and Spring microservices It provides you with a variety of tools that will help you quickly build modern web applications This book will be your guide to building full stack applications with Spring and Angular using the JHipster tool set You will begin by understanding what JHipster is and the various tools and technologies associated with it You will learn the essentials of a full stack developer before getting hands on and building a monolithic web application with JHipster From here you will learn the JHipster Domain Language with entity modeling and entity creation using JDL and JDL studio Moving on you will be introduced to client side technologies such as Angular and Bootstrap and will delve into technologies such as Spring Security Spring MVC and Spring Data You will learn to build and package apps for production with various deployment options such as Heroku and more During the course of the book you will be introduced to microservice server side technologies and how to break your monolithic application with a database of your choice Next the book takes you through cloud deployment with microservices on Docker and Kubernetes Going forward you will learn to build your client side with React and master JHipster best practices By the end of the book you will be able to leverage the power of the best tools available to build modern web applications What you will learn Build business logic by creating and developing entity models us the JHipster Domain Language Customize web applications with Angular Bootstrap and Spring Tests and Continuous Integration with Jenkins Utilize the JHipster microservice stack which includes Netflix Eureka Spring Cloud config HashiCorp Consul and so on Understand advanced microservice concepts such as API rout load balancing rate limit circuit break centralized

configuration server JWT authentication and more Run microservices locally using Docker and Kubernetes in production Who this book is for This book will appeal to developers who would like to build modern web applications quickly A basic knowledge of the Spring ecosystem would be an added advantage   Advanced PHP Architectures Phiquill Publishing,2025-06-12 You ll Learn Master Advanced PHP Object Oriented Programming Go beyond the basics with modern PHP features like Traits Enums Fibers and Readonly Properties Explore metaprogramming with Reflection API and Attributes and understand Dependency Injection DI and Inversion of Control IoC for decoupled code You ll also learn advanced error and exception handling and implement immutability Apply SOLID Principles Deepen your understanding of SOLID principles Single Responsibility Open Closed Liskov Substitution Interface Segregation Dependency Inversion and1 learn to apply them to design maintainable testable and less coupled PHP code even in legacy systems Explore Advanced Design Patterns Discover crucial design patterns beyond the classic Gang of Four including Specification Policy Null Object Registry Service Locator Monostate Lazy Loading Proxy and Fluent Interfaces understanding their practical applications and drawbacks in PHP Understand Software Architecture Fundamentals Grasp key architectural qualities like scalability maintainability and resilience Learn about common architectural styles Layered Client Server Microservices Event Driven and how to document software architecture using models like the C4 Model and Architectural Decision Records ADRs Implement Hexagonal Architecture Learn the core concepts of Hexagonal Architecture Ports and Adapters including primary and secondary ports and adapters Understand its benefits for testability framework decoupling and technology agnosticism and how to apply it in PHP Integrate CQRS and Event Sourcing Dive into Command Query Responsibility Segregation CQRS to separate read and write models for improved scalability and performance Explore Event Sourcing storing state as a sequence of events and learn how to combine it effectively with CQRS for complete auditability and flexible data projections Build and Scale PHP Systems Understand the rationale behind building custom PHP frameworks or minimalist application cores Learn to design implement and deploy PHP microservices covering lightweight frameworks API design REST gRPC GraphQL service discovery and resilient patterns like Circuit Breakers Manage Communication and Data in Distributed Systems Explore synchronous HTTP REST gRPC and asynchronous Message Queues Event Driven Architecture communication patterns Learn strategies for data consistency across services including eventual consistency and the Saga Pattern Deploy and Orchestrate PHP Microservices Master containerization with Docker and orchestration with Kubernetes for deploying PHP applications Implement robust CI CD pipelines and set up effective monitoring and logging solutions ELK Stack Prometheus Jaeger for distributed systems Optimize PHP Performance Learn techniques for profiling PHP applications Xdebug Blackfire io configuring OPcache and implementing various caching strategies in memory distributed application level Discover database optimization and load balancing techniques Enhance Security in Advanced Architectures Understand how to make security a first class citizen Implement best practices for securing microservices Authentication Authorization mTLS API security and

apply secure coding practices in PHP OWASP Top 10 input validation encryption Explore Future Trends in PHP Gain insights into PHP s continued evolution the rise of serverless PHP the growing importance of Domain Driven Design DDD reactive systems AI ML integration and the evolving landscape of DevOps and Platform Engineering **PHP Beyond the Monolith** Jason Gran,2025-10-29 Every experienced PHP developer knows that application The one affectionately called the Big Ball of Mud It s the system where a simple feature request requires tracing logic through a dozen tangled classes It s the application where a bug fix in the Admin module accidentally breaks the Checkout And it s the deployment process that s a high stakes all or nothing event requiring a late night maintenance window and a prayer For years frameworks like Laravel and Symfony built empires on this monolithic model and it worked until it didn t The moment your team grows your traffic scales or you need to move to a modern cloud native cattle architecture the monolith becomes a bottleneck to growth This book is the practical hands on escape plan It s not just theory it s a complete roadmap that teaches you how to stop maintaining a monolith and start architecting a modern decoupled system of scalable microservices secure APIs and resilient data driven applications Inside you will master the complete lifecycle of a modern PHP service Design First Code Later Learn to think in services by identifying Bounded Contexts and mastering API first design by writing formal testable API contracts with OpenAPI Build a Production Ready Core Go beyond simple scripts Build a secure lightweight API service using a minimalist framework like Slim and Dependency Injection PSR 11 to create code that is decoupled and truly testable Decouple Your Data Leave messy SQL queries in your controllers behind Master the Repository Pattern using interfaces to build a wall between your business logic and your database PDO Tame Your Database Learn what your database is actually doing Use EXPLAIN to find bottlenecks add indexes to fix them and solve the dreaded N 1 query problem with eager loading Master Caching at Scale Implement the high performance Decorator Pattern to wrap your repositories with a distributed cache Serve 99% of your requests from Redis and protect your database Embrace Asynchronous Workflows Stop making your users wait Learn why your API shouldn t send emails and how to use RabbitMQ to publish jobs to a message queue making your API feel instantaneous Package for Production Master Docker Evolve from a naive Dockerfile to a secure minimal multi stage build and orchestrate your entire dev stack PHP FPM Nginx MySQL Redis with Docker Compose Achieve Full Observability Stop flying blind Implement the Three Pillars Structured JSON Logging Prometheus Metrics and Distributed Tracing to make your system transparent Test with Confidence Build the Testing Pyramid Write fast Unit Tests using mocks reliable Integration Tests with Docker Compose and Contract Tests with Pact to ensure your microservices can deploy independently and safely Automate Everything Build a complete CI CD pipeline with GitHub Actions to automatically test your code build your production image and push it to a registry ready for deployment Who This Book Is For This book is for the professional PHP developer who feels stuck in the monolith It s for the mid to senior engineer tech lead or architect who needs a practical code filled guide to building secure scalable and maintainable data driven systems with modern PHP If you re ready to make

the leap from being a framework developer to a system architect this book is your guide *AWS Certified SysOps Administrator Official Study Guide* Stephen Cole,Gareth Digby,Chris Fitch,Steve Friedberg,Shaun Qualheim,Jerry Rhoads,Michael Roth,Blaine Sundrud,2017-10-16 Comprehensive interactive exam preparation and so much more The AWS Certified SysOps Administrator Official Study Guide Associate Exam is a comprehensive exam preparation resource This book bridges the gap between exam preparation and real world readiness covering exam objectives while guiding you through hands on exercises based on situations you ll likely encounter as an AWS Certified SysOps Administrator From deployment management and operations to migration data flow cost control and beyond this guide will help you internalize the processes and best practices associated with AWS The Sybex interactive online study environment gives you access to invaluable preparation aids including an assessment test that helps you focus your study on areas most in need of review and chapter tests to help you gauge your mastery of the material Electronic flashcards make it easy to study anytime anywhere and a bonus practice exam gives you a sneak preview so you know what to expect on exam day Cloud computing offers businesses a cost effective instantly scalable IT infrastructure The AWS Certified SysOps Administrator Associate credential shows that you have technical expertise in deployment management and operations on AWS Study exam objectives Gain practical experience with hands on exercises Apply your skills to real world scenarios Test your understanding with challenging review questions Earning your AWS Certification is much more than just passing an exam you must be able to perform the duties expected of an AWS Certified SysOps Administrator in a real world setting This book does more than coach you through the test it trains you in the tools procedures and thought processes to get the job done well If you re serious about validating your expertise and working at a higher level the AWS Certified SysOps Administrator Official Study Guide Associate Exam is the resource you ve been seeking **Hands-On Swift 5 Microservices Development** Ralph Kuepper,2020-03-02 Learn to design and deploy fully functioning microservices for your applications from scratch using Swift Docker and AWS Key FeaturesUnderstand server side Swift development concepts for building your first microserviceBuild microservices using Vapor 4 and deploy them to the cloud using DockerLearn effective techniques for enhancing maintainability and stability of your Swift applicationsBook Description The capabilities of the Swift programming language are extended to server side development using popular frameworks such as Vapor This enables Swift programmers to implement the microservices approach to design scalable and easy to maintain architecture for iOS macOS iPadOS and watchOS applications This book is a complete guide to building microservices for iOS applications You ll start by examining Swift and Vapor as backend technologies and compare them to their alternatives The book then covers the concept of microservices to help you get started with developing your first microservice Throughout this book you ll work on a case study of writing an e commerce backend as a microservice application You ll understand each microservice as it is broken down into details and written out as code throughout the book You ll also become familiar with various aspects of server side

development such as scalability database options and information flow for microservices that are unwrapped in the process As you advance you ll get to grips with microservices testing and see how it is different from testing a monolith application Along the way you ll explore tools such as Docker Postman and Amazon Web Services By the end of the book you ll be able to build a ready to deploy application that can be used as a base for future applications What you will learnGrasp server side Swift development concepts using practical examplesUnderstand the microservices approach and why Swift is a great choice for building microservicesDesign and structure mobile and web applications using microservices architectureDiscover the available database options and understand which one to chooseScale and monitor your microservicesUse Postman to automate testing for your microservices APIWho this book is for The book is for iOS iPadOS and macOS developers and Swift programmers who want to understand how Swift can be used for building microservices The book assumes familiarity with Swift programming and the fundamentals of the web including how APIs work AWS Certified Developer Associate All-in-One Exam Guide (Exam DVA-C01) Kamesh Ganesan,2020-11-27 This effective self study system delivers complete coverage of every topic on the AWS Certified Developer Associate Exam Take the challenging AWS Certified Developer Associate Exam with confidence using the comprehensive information contained in this effective test preparation guide Written by an Amazon Web Services certified expert and experienced trainer AWS Certified Developer Associate All in One Exam Guide Exam DVA C01 covers every subject on the exam and clearly explains how to create deploy migrate monitor and debug cloud native applications Designed to help you pass the exam with ease this guide also serves as an ideal on the job reference Covers all topics on the exam including Getting started with AWS Journey AWS high availability and fault tolerance Working with cloud storage Authentication and authorization Creating SQL and NoSQL databases in AWS Cloud AWS application integration and management Developing cloud native applications in AWS Building deploying and debugging cloud applications Electronic content includes 130 practice questions Test engine containing full length practice exams and customizable quizzes Implementierung von Micro Frontends am Beispiel eines Kalender-Moduls Basel Hussein,2024-05-21 Bachelorarbeit aus dem Jahr 2021 im Fachbereich Informatik Software Note 1 2 Technische Hochschule K ln ehem Fachhochschule K ln Veranstaltung Softwareentwicklung Sprache Deutsch Abstract Das Thema der Arbeit ist die Gestaltung eines Micro Frontends f r Kalendereintr ge in eine existierende web basierte Anwendung von der Firma Abenteuerhallenkalk5 in K ln die den Benutzer dabei unterst tzt Termine f r kommende Veranstaltungen bzw Events bei Abenteuerhallenkalk zu erkennen Die Idee zu diesem Thema hat mich besonders interessiert weil der Architekturstil von Micro Frontends wie der Architekturstil von Microservices immer weiter an Bedeutung gewinnt W hrend der Architekturstil der Microservices im Backend immer mehr angewendet wird etabliert sich der Architekturstil von Micro Frontends im Front end Bereich weiter Zudem wird die Produktivit t der Entwicklungsteams bei gro en Projekten gesteigert denn jedes Team kann selbstst ndig und unabh ngig an seinem Frontend arbeiten bei und gleichzeitig zunehmender Stellenwert der fachlichen

Zerlegung bzw Skalierbarkeit der Anwendung w hrend der Entwicklung   *Microsoft Certified Azure Fundamentals All-in-One Exam Guide (Exam AZ-900)* Jack Hyman,2021-08-27 A highly effective integrated self study system for the Microsoft Azure Fundamentals exam Prepare for the current version of the Microsoft Azure Fundamentals exam using the detailed information contained in this test preparation guide Written by a cloud computing expert and experienced author the book contains accurate practice questions step by step exercises and special elements that aid in learning and reinforce retention Microsoft Certified Azure Fundamentals All in One Exam Guide Exam AZ 900 features in depth coverage of every topic on the challenging exam You will explore core Azure services security compliance and trust Fulfilling the promise of the All in One series the guide serves as both a test preparation tool and an on the job reference for risk and compliance professionals 100% coverage of all objectives for the Microsoft Azure Fundamentals exam Contains hands on exercises and practical use cases for Microsoft Azure Online content includes practice exam software with 120 questions   Scalable PHP Systems Machine L,2025-04-25 What good is an app if it crashes under traffic This book teaches you scalability patterns used by high traffic platforms to keep your PHP apps fast and reliable at any scale   *Cloud Native Programming with Golang* Mina Andrawos,Martin Helmich,2017-12-28 Discover practical techniques to build cloud native apps that are scalable reliable and always available Key Features Build well designed and secure microservices Enrich your microservices with continous integration and monitoring Containerize your application with Docker Deploy your application to AWS Learn how to utilize the powerful AWS services from within your application Book Description Awarded as one of the best books of all time by BookAuthority Cloud Native Programming with Golang will take you on a journey into the world of microservices and cloud computing with the help of Go Cloud computing and microservices are two very important concepts in modern software architecture They represent key skills that ambitious software engineers need to acquire in order to design and build software applications capable of performing and scaling Go is a modern cross platform programming language that is very powerful yet simple it is an excellent choice for microservices and cloud applications Go is gaining more and more popularity and becoming a very attractive skill This book starts by covering the software architectural patterns of cloud applications as well as practical concepts regarding how to scale distribute and deploy those applications You will also learn how to build a JavaScript based front end for your application using TypeScript and React From there we dive into commercial cloud offerings by covering AWS Finally we conclude our book by providing some overviews of other concepts and technologies that you can explore to move from where the book leaves off What you will learn Understand modern software applications architectures Build secure microservices that can effectively communicate with other services Get to know about event driven architectures by diving into message queues such as Kafka Rabbitmq and AWS SQS Understand key modern database technologies such as MongoDB and Amazon s DynamoDB Leverage the power of containers Explore Amazon cloud services fundamentals Know how to utilize the power of the Go language to access key services in the Amazon cloud such as S3 SQS

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You will examine each of these tools and understand how they can be combined within an organization You will design an automated build pipeline from Pull Request to container deployment understand how to achieve High Availability and monitor application health with Service Discovery and learn how to collaborate with other teams write documentation and describe bugs Covering use of Jenkins Docker Kubernetes the ELK stack Elasticsearch Logstash and Kibana and StatsD and Grafana for analytics you will build on your existing knowledge of Service Oriented Architecture and gain an advanced practical understanding of everything from infrastructure development to team collaboration What You ll Learn Design an API to be convenient for developers to consume Deploy dynamic instances of Microservices and allow then to discover each other Track the health of a Microservice and be notified in case of degraded performance Write effective documentation and communicate efficiently with other teams Who This Book Is For Those who would like a better understanding of System Oriented Architecture Those who would like to break a monolith into smaller Microservices Those who are familiar with Microservices and would like a better understanding of peripheral technologies   **Mastering PHP Design Patterns** Junade Ali,2016-09-28 Develop robust and reusable code using a multitude of design patterns for PHP 7 About This Book Learn about advanced design patterns in PHP 7 Understand enhanced architectural patterns Learn to implement reusable design patterns to address common recurring problems Who This Book Is For This book is for PHP developers who wish to have better organization structure over their code through learning common methodologies to solve architectural problems against a backdrop of learning new functionality in PHP 7 What You Will Learn Recognize recurring problems in your code with Anti Patterns Uncover object creation mechanisms using Creational Patterns Use Structural design patterns to easily access your code Address common issues encountered when linking objects using the splObserver classes in PHP 7 Achieve a common style of coding with Architectural Patterns Write reusable code for common MVC frameworks such as Zend Laravel and Symfony Get to know the best practices associated with design patterns when used with PHP 7 In Detail Design patterns are a clever way to solve common architectural issues that arise during software development With an increase in demand for enhanced programming techniques and the versatile nature of PHP a deep understanding of PHP design patterns is critical to achieve efficiency while coding This comprehensive guide will show you how to achieve better organization structure over your code through learning common methodologies to solve architectural problems You ll also learn about the new functionalities that PHP 7 has to offer Starting with a brief introduction to design patterns you quickly dive deep into the three main architectural patterns Creational Behavioral and Structural popularly known as the Gang of Four patterns Over the course of the book you will get a deep understanding of object creation mechanisms advanced techniques that address issues concerned with linking objects together and improved methods to access your code You will also learn about Anti Patterns and the best methodologies to adopt when building a PHP 7 application With a concluding chapter on best practices this book is a complete guide that will equip you to utilize design patterns in PHP 7 to achieve maximum productivity

ensuring an enhanced software development experience Style and approach The book covers advanced design patterns in detail in PHP 7 with the help of rich code based examples   Learn Microservices - ASP.NET Core and Docker Arnaud Weil,2018-08-31 You re a developer who knows nothing to Microservices Which is fine except that you need to start coding your next Microservices based application using ASP NET Core and Docker Don t worry I have you covered I ve been training hundreds of developers like you during 16 years and converted my experience into this book I know from experience teaching what takes more time to learn in Microservices and will spend time only where appropriate Plus this book is packed with exercises which build up into a full project you develop two interdependent Microservices each exposing a CRUD JSON API You publish them in a Docker repository and run them in Docker Read this book and you can code your Microservices within a week

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