Serverless Architecture in AWS

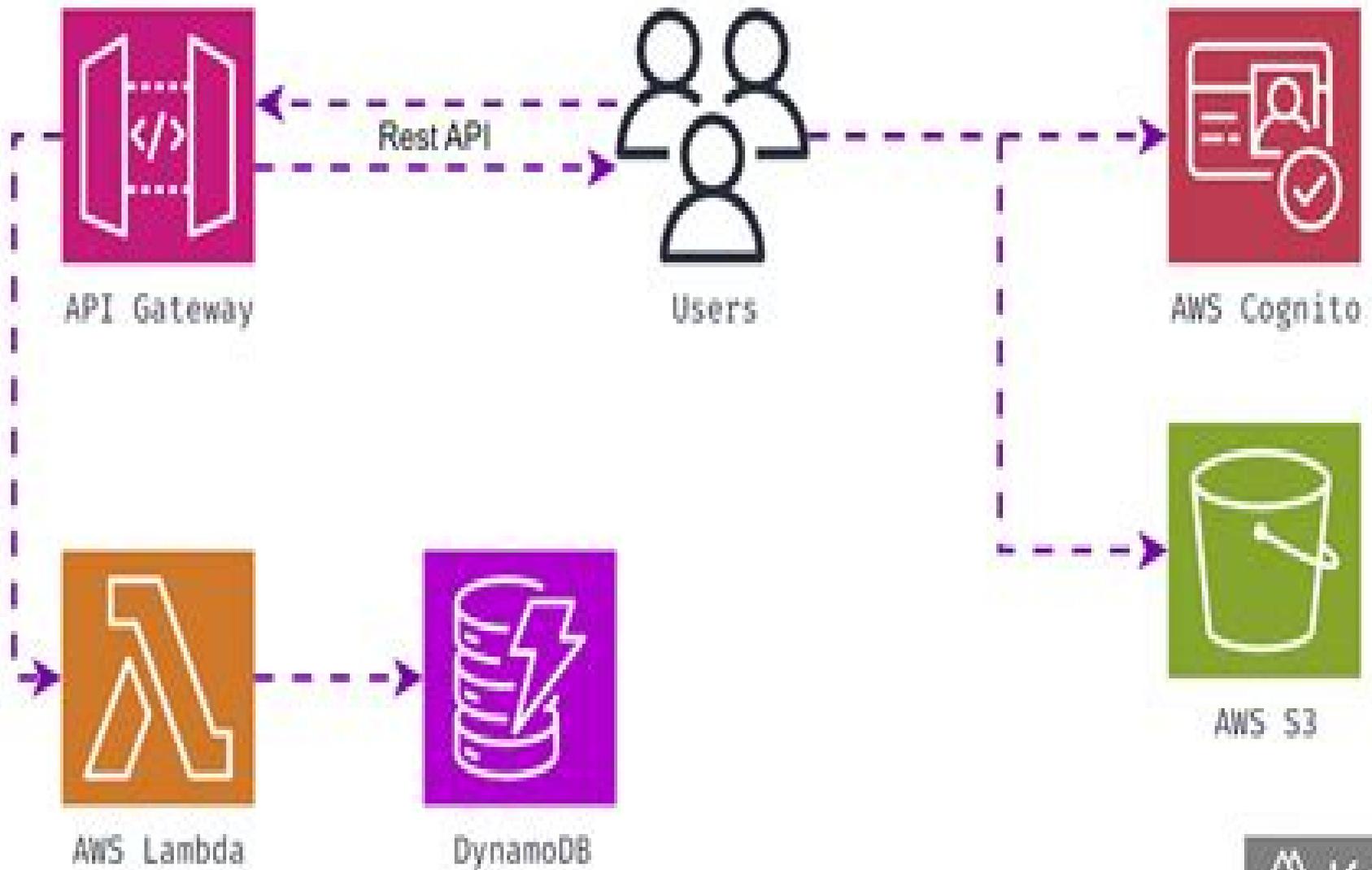API Gateway

Rest API

Users

AWS Cognito

AWS Lambda

DynamoDB

AWS S3

Kerno

Serverless Architectures With Aws Lambda

Peter Sbarski,Sam Kroonenburg

Serverless Architectures With Aws Lambda:

　　Serverless Architectures on AWS Peter Sbarski,Sam Kroonenburg,2017-04-17 Summary Serverless Architectures on AWS teaches you how to build secure and manage serverless architectures that can power the most demanding web and mobile apps Forewords by Patrick Debois Founder of devopsdays and Dr Donald F Ferguson Columbia University Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology There s a shift underway toward serverless cloud architectures With the release of serverless computer technologies such as AWS Lambda developers are now building entirely serverless platforms at scale In these new architectures traditional back end servers are replaced with cloud functions acting as discrete single purpose services By composing and combining these serverless cloud functions together in a loose orchestration and adopting useful third party services developers can create powerful yet easy to understand applications About the Book Serverless Architectures on AWS teaches you how to build secure and manage serverless architectures that can power the most demanding web and mobile apps You ll get going quickly with this book s ready made real world examples code snippets diagrams and descriptions of architectures that can be readily applied By the end you ll be able to architect and build your own serverless applications on AWS What s Inside First steps with serverless computing Important patterns and architectures Writing AWS Lambda functions and using the API Gateway Composing serverless applications using key services like Auth0 and Firebase Securing deploying and managing serverless architectures About the Reader This book is for software developers interested in back end technologies Experience with JavaScript node js and AWS is useful but not required About the Author Dr Peter Sbarski is a well known AWS expert VP of engineering at A Cloud Guru and head of Serverlessconf Table of Contents PART 1 FIRST STEPS Going serverless Architectures and patterns Building a serverless application Setting up your cloud PART 2 CORE IDEAS Authentication and authorization Lambda the orchestrator API Gateway PART 3 GROWING YOUR ARCHITECTURE Storage Database Going the last mile APPENDIXES Services for your serverless architecture Installation and setup More about authentication and authorization Lambda insider Models and mapping   **Serverless Architectures on AWS, Second Edition** Peter Sbarski,Yan Cui,Ajay Nair,2022-04-12 Design low maintenance systems using pre built cloud services Bring down costs automate time consuming ops tasks and scale on demand In Serverless Architectures on AWS Second Edition you will learn First steps with serverless computing The principles of serverless design Important patterns and architectures How successfully companies have implemented serverless Real world architectures and their tradeoffs Serverless Architectures on AWS Second Edition teaches you how to design serverless systems You ll discover the principles behind serverless architectures and explore real world case studies where companies used serverless architectures for their products You won t just master the technical essentials the book contains extensive coverage of balancing tradeoffs and making essential technical decisions This new edition has been fully updated with new chapters covering current best practice example

architectures and full coverage of the latest changes to AWS About the technology Maintaining server hardware and software can cost a lot of time and money Unlike traditional data center infrastructure serverless architectures offload core tasks like data storage and hardware management to pre built cloud services Better yet you can combine your own custom AWS Lambda functions with other serverless services to create features that automatically start and scale on demand reduce hosting cost and simplify maintenance About the book In Serverless Architectures with AWS Second Edition you ll learn how to design serverless systems using Lambda and other services on the AWS platform You ll explore event driven computing and discover how others have used serverless designs successfully This new edition offers real world use cases and practical insights from several large scale serverless systems Chapters on innovative serverless design patterns and architectures will help you become a complete cloud professional What s inside First steps with serverless computing The principles of serverless design Important patterns and architectures Real world architectures and their tradeoffs About the reader For server side and full stack software developers About the author Peter Sbarski is VP of Education and Research at A Cloud Guru Yan Cui is an independent AWS consultant and educator Ajay Nair is one of the founding members of the AWS Lambda team Table of Contents PART 1 FIRST STEPS 1 Going serverless 2 First steps to serverless 3 Architectures and patterns PART 2 USE CASES 4 Yubl Architecture highlights lessons learned 5 A Cloud Guru Architecture highlights lessons learned 6 Yle Architecture highlights lessons learned PART 3 PRACTICUM 7 Building a scheduling service for ad hoc tasks 8 Architecting serverless parallel computing 9 Code Developer University PART 4 THE FUTURE 10 Blackbelt Lambda 11 Emerging practices **Building Serverless Applications with AWS Lambda** THOMPSON. CARTER,2025-01-21 Building Serverless Applications with AWS Lambda Design and Deploy Serverless Architectures Using AWS Lambda Transform your development workflow with Building Serverless Applications with AWS Lambda This comprehensive guide is designed for developers architects and IT professionals who want to leverage AWS Lambda to build scalable cost effective and efficient serverless applications Whether you re new to serverless technology or looking to refine your skills this book provides step by step instructions best practices and real world examples to help you master serverless architecture Dive into the world of serverless computing and learn how to design deploy and manage powerful applications without the need to manage servers From foundational concepts to advanced use cases Building Serverless Applications with AWS Lambda empowers you to unlock the full potential of AWS Lambda for your projects What You ll Learn Foundations of Serverless Computing Understand the core principles of serverless architecture and its benefits over traditional infrastructure Introduction to AWS Lambda Explore AWS Lambda s features including event driven execution and integration with other AWS services Setting Up Your Environment Learn how to configure your AWS account set up IAM roles and use the AWS Management Console and CLI Building Lambda Functions Write deploy and test Lambda functions using popular programming languages like Python Node js and Java Event Sources and Triggers Configure Lambda triggers with services like S3 DynamoDB API

Gateway and CloudWatch Serverless APIs Design and deploy RESTful APIs using AWS Lambda and API Gateway Data Storage and Processing Integrate Lambda with DynamoDB S3 and RDS to process and store data efficiently Asynchronous Workflows Build scalable and reliable workflows using AWS Step Functions and EventBridge Monitoring and Logging Use AWS CloudWatch and X Ray to monitor application performance and troubleshoot issues Cost Optimization Understand AWS Lambda s pricing model and implement strategies to minimize costs while maximizing performance Security Best Practices Implement robust security measures including IAM roles encryption and compliance Scaling Serverless Applications Learn how Lambda scales automatically to handle high traffic without manual intervention Serverless Frameworks Explore frameworks like the Serverless Framework and AWS SAM Serverless Application Model to simplify deployment and management Real World Use Cases Discover practical applications of AWS Lambda including image processing IoT solutions and real time data analytics Future Trends in Serverless Computing Stay ahead of the curve with insights into the latest trends and advancements in serverless technology Who Is This Book For This book is ideal for developers architects and IT professionals looking to modernize their applications reduce operational overhead and build highly available and scalable systems Why Choose This Book With clear explanations hands on tutorials and practical projects Building Serverless Applications with AWS Lambda bridges the gap between theory and implementation empowering you to create innovative solutions in the cloud Start building your serverless future today with Building Serverless Applications with AWS Lambda Design and Deploy Serverless Architectures Using AWS Lambda your ultimate guide to serverless success   Serverless Architectures on AWS, Second Edition Peter Sbarski,Yan Cui,Ajay Nair,2022-03-29 Maintaining server hardware and software can cost a lot of time and money Unlike traditional data center infrastructure serverless architectures offload core tasks like data storage and hardware management to pre built cloud services Better yet you can combine your own custom AWS Lambda functions with other serverless services to create features that automatically start and scale on demand reduce hosting cost and simplify maintenance In Serverless Architectures with AWS second edition you ll learn how to design serverless systems using Lambda and other services on the AWS platform You ll explore event driven computing and discover how others have used serverless designs successfully This new edition offers real word use cases and practical insights from several large scale serverless systems Chapters on innovative serverless design patterns and architectures will help you become a complete cloud professional Back cover   Design Serverless Architecture with AWS and AWS Lambda Michael Haberman,2018 Amazon Web Services continues its domination as the leading cloud service provider on the market Since serverless applications are gaining a lot of traction it is extremely important to understand the serverless architecture to help you build manage and secure serverless applications This video covers all aspects of serverless architectures in Amazon Web Services which is necessary for working with serverless applications This course starts with introduction to serverless architectures and then you ll delve into design considerations followed by building a serverless application and deploying it

on your serverless architecture This video covers practical example of deploying and orchestrating a serverless application using DynamoDB AWS Lambda and API Gateway Towards the end of the video we will learn about some security considerations in protecting your serverless application By the end of this course you will have mastered working with serverless architectures on AWS Cloud Resource description page **Serverless Architectures with AWS** Mohit Gupta,2018-12-24 Serverless Architectures with AWS teaches you how to build serverless applications on AWS applications that do not require the developer to provision scale or manage any servers Using an event driven approach and AWS Lambda as the primary service the book explains the many benefits of serverless architectures By the end of the book you

Mastering Serverless Computing with AWS Lambda Eidivandi Omid,2024-11-14 TAGLINE Design and Build Scalable Solutions on the AWS Serverless Ecosystem KEY FEATURES In depth exploration of AWS Lambda Integration within serverless architecture Expert tips and guidance on choosing compute services for peak performance Practical Techniques for achieving observability governance and reliability DESCRIPTION AWS Lambda a key component of AWS Serverless Computing has transformed application development by allowing developers to focus on code rather than infrastructure Mastering Serverless Computing with AWS Lambda is a must have guide for leveraging AWS Lambda to build efficient cost effective serverless cloud solutions This book guides readers from serverless basics to advanced deployment offering practical approaches to building resilient scalable applications Beginning with an introduction to serverless computing the book explores AWS Lambda fundamentals covering invocation models service integrations and event driven design Practical insights into hyper scaling instrumentation and designing for failure empower readers to create robust production ready solutions This guide covers core concepts of serverless computing including optimizations automation and strategies to navigate potential pitfalls It emphasizes AWS Lambda s resiliency scalability and disaster recovery using real world examples to showcase best practices Each chapter offers in depth examples edge computing scenarios and proven patterns to help readers develop optimized serverless architectures By the end readers will gain a comprehensive understanding of AWS Lambda equipping them to design sophisticated systems that meet modern cloud demands and drive innovation within their organizations WHAT WILL YOU LEARN Gain a solid understanding of serverless architecture and how AWS Lambda fits into the serverless ecosystem Learn the core components of AWS Lambda from function creation and triggers to its role in cloud native development Discover techniques for leveraging Lambda s automatic scaling to handle fluctuating workloads while optimizing costs Learn best practices for creating resilient Lambda functions designed to withstand failures and ensure high availability Apply industry tested patterns architectural best practices and real world scenarios to build robust scalable and cost effective serverless applications with AWS Lambda WHO IS THIS BOOK FOR This book is for software developers architects and leaders looking to enhance their skills in the AWS serverless ecosystem and streamline distributed communication in their designs Readers should have a solid understanding of distributed systems microservices inter service

communication patterns and the pillars of high availability and reliability TABLE OF CONTENTS 1 Introduction to Serverless Computing 2 AWS Lambda Basics 3 Invocation Models and Service Integrations 4 Event Driven Design with Lambda 5 Hyper Scaling with Lambda 6 Instrumenting Lambda 7 Resiliency and Design for Failure 8 Lambda Less Design 9 Edge Computing 10 Patterns and Practices Index *Hands-on Serverless Architecture with AWS Lambda* Alan Rodrigues,2018 Serverless architecture is a way to build and run applications and services without having to manage infrastructure Lambda eliminates the problem of dealing with cloud based servers at all levels of technology stack and offers a pay per request billing model where you don t have to pay for idle computing time Thus it becomes extremely important to understand the serverless architecture which will help you build manage and secure serverless applications with AWS Lambda In this course you ll learn to build code and deploy it without ever needing to configure or manage underlying servers You ll build secure and manage serverless architectures that can power the most demanding web and mobile apps You won t have to provision infrastructures or worry about scale By the end of this course you will know how to design and implement production ready AWS serverless solutions You ll be able to architect and build your own serverless applications on AWS Resource description page   Advanced AWS Lambda: Comprehensive Guide to Serverless Computing Adam Jones,2024-12-07 Advanced AWS Lambda Comprehensive Guide to Serverless Computing is an essential resource for developers system administrators and IT professionals eager to leverage the full power of serverless computing through AWS Lambda Whether you re a newcomer to AWS Lambda or looking to refine your expertise in serverless architecture this book provides an exhaustive examination of AWS Lambda s potential best practices and sophisticated functionalities Explore in depth the foundational concepts of AWS Lambda including triggers event sources security protocols performance enhancement strategies and cost management techniques Gain insights into designing deploying and maintaining efficient secure and scalable serverless applications with practical examples thorough explanations and step by step guidance The book delves into topics ranging from setting up your initial function to intricacies like integrating AWS Lambda with other AWS services troubleshooting common problems and architecting complex serverless solutions With Advanced AWS Lambda you ll unlock the vast possibilities of serverless computing minimize operational overhead and construct applications that are scalable reliable and cost effective Embark on your journey to mastering AWS Lambda and revolutionize the way you develop and deploy applications in the cloud **Learn AWS Serverless Computing** Scott Patterson,2019-12-24 Build deploy test and run cloud native serverless applications using AWS Lambda and other popular AWS services Key FeaturesLearn how to write run and deploy serverless applications in Amazon Web ServicesMake the most of AWS Lambda functions to build scalable and cost efficient systemsBuild and deploy serverless applications with Amazon API Gateway and AWS Lambda functionsBook Description Serverless computing is a way to run your code without having to provision or manage servers Amazon Web Services provides serverless services that you can use to build and deploy cloud native applications Starting with the basics of AWS

Lambda this book takes you through combining Lambda with other services from AWS such as Amazon API Gateway Amazon DynamoDB and Amazon Step Functions You ll learn how to write run and test Lambda functions using examples in Node js Java Python and C before you move on to developing and deploying serverless APIs efficiently using the Serverless Framework In the concluding chapters you ll discover tips and best practices for leveraging Serverless Framework to increase your development productivity By the end of this book you ll have become well versed in building securing and running serverless applications using Amazon API Gateway and AWS Lambda without having to manage any servers What you will learnUnderstand the core concepts of serverless computing in AWSCreate your own AWS Lambda functions and build serverless APIs using Amazon API GatewayExplore best practices for developing serverless applications at scale using Serverless FrameworkDiscover the DevOps patterns in a modern CI CD pipeline with AWS CodePipelineBuild serverless data processing jobs to extract transform and load dataEnforce resource tagging policies with continuous compliance and AWS ConfigCreate chatbots with natural language understanding to perform automated tasksWho this book is for This AWS book is for cloud architects and developers who want to build and deploy serverless applications using AWS Lambda A basic understanding of AWS is required to get the most out of this book   *Hands-On Serverless Computing* Kuldeep Chowhan,2018-07-23 Deploy functions efficiently using different cloud based serverless offerings Key Features Understand the concept of Function as a Service Implement Serverless solutions using AWS Lambda Azure Functions and Google Cloud Functions Practical approach towards choosing the best tool for your serverless environment Book Description Serverless applications and architectures are gaining momentum and are increasingly being used by companies of all sizes Serverless software takes care of many problems that developers face when running systems and servers such as fault tolerance centralized logging horizontal scalability and deployments You will learn how to harness serverless technology to rapidly reduce production time and minimize your costs while still having the freedom to customize your code without hindering functionality Upon finishing the book you will have the knowledge and resources to build your own serverless application hosted in AWS Microsoft Azure or Google Cloud Platform and will have experienced the benefits of event driven technology for yourself This hands on guide dives into the basis of serverless architectures and how to build them using Node js as a programming language Visual Studio Code for code editing and Postman for quickly and securely developing applications without the hassle of configuring and maintaining infrastructure on three public cloud platforms What you will learn Understand the benefts of serverless computing and know when to use it Develop serverless applications on AWS Azure and Google Cloud Get to grips with Function as a Service FaaS Apply triggers to serverless functions Build event driven apps using serverless frameworks Use the Node js programming language to build serverless apps Use code editors such as Visual Studio Code as development environments Master the best development practices for creating scalable and practical solutions Who this book is for This book is targeted towards developers system administrators or any stakeholder working in

the Serverless environment and want to understand how functions work Basic idea of serverless architecture can be an added advantage *Serverless Design Patterns and Best Practices* Brian Zambrano,2018-04-12 Get started with designing your serverless application using optimum design patterns and industry standard practices Key Features Learn the details of popular software patterns and how they are applied to serverless applications Understand key concepts and components in serverless designs Walk away with a thorough understanding of architecting serverless applications Book Description Serverless applications handle many problems that developers face when running systems and servers The serverless pay per invocation model can also result in drastic cost savings contributing to its popularity While it s simple to create a basic serverless application it s critical to structure your software correctly to ensure it continues to succeed as it grows Serverless Design Patterns and Best Practices presents patterns that can be adapted to run in a serverless environment You will learn how to develop applications that are scalable fault tolerant and well tested The book begins with an introduction to the different design pattern categories available for serverless applications You will learn the trade offs between GraphQL and REST and how they fare regarding overall application design in a serverless ecosystem The book will also show you how to migrate an existing API to a serverless backend using AWS API Gateway You will learn how to build event driven applications using queuing and streaming systems such as AWS Simple Queuing Service SQS and AWS Kinesis Patterns for data intensive serverless application are also explained including the lambda architecture and MapReduce This book will equip you with the knowledge and skills you need to develop scalable and resilient serverless applications confidently What you will learn Comprehend the popular design patterns currently being used with serverless architectures Understand the various design options and corresponding implementations for serverless web application APIs Learn multiple patterns for data intensive serverless systems and pipelines including MapReduce and Lambda Architecture Learn how to leverage hosted databases queues streams storage services and notification services Understand error handling and system monitoring in a serverless architecture a serverless architecture Learn how to set up a serverless application for continuous integration continuous delivery and continuous deployment Who this book is for If you re a software architect engineer or someone who wants to build serverless applications which are non trivial in complexity and scope then this book is for you Basic knowledge of programming and serverless computing concepts are assumed   **Hands-On Serverless Applications with Kotlin** Hardik Trivedi,Ameya Kulkarni,2018-09-29 Choose the right architecture and design it using design patterns to create a serverless application that cuts costs and is easily scalable Key FeaturesDesign enterprise ready serverless applications that effortlessly meet your customers requirementsEffectively deploy manage monitor and orchestrate serverless applications using AWSUse Cloud9 to provision a secured development environment in the cloudBook Description Serverless is a cloud computing execution model where the cloud provider dynamically manages the allocation and provisioning of servers Many companies have started using serverless architectures to cut costs and improve scalability Hands On Serverless Applications with Kotlin

is your one stop guide to designing serverless architectures for your applications with AWS and Kotlin To start with you ll explore the fundamentals of serverless architecture and how AWS Lambda functions work You will then learn to design build secure and deploy your application to production In addition to these activities you ll understand how to implement non functional requirements such as auditing and logging Moving on you ll discover how to scale up and orchestrate serverless applications using an open source framework and handle distributed serverless systems in production By the end of the book you ll have gained the knowledge needed to build scalable and cost efficient Kotlin applications with a serverless framework What you will learnDesign a serverless architectureUse AWS Lambda to contain your serverless APIExplore the various ways to keep serverless apps safe and secureUnderstand how a serverless API allows you to use huge infrastructure and cut costsDiscover how to handle distributed systems in KotlinDesign the data flow between cloud services and custom business logicSecure your Kotlin AWS serverless applicationMaster Kotlin design patterns for serverless applicationsWho this book is for Hands On Serverless Applications with Kotlin is for you if you are a Kotlin developer who wants to learn about serverless architectures It is assumed that you have some knowledge of Kotlin programming and AWS *Mastering Serverless: A Deep Dive into AWS Lambda* Peter Jones,2025-01-17 Mastering Serverless A Deep Dive into AWS Lambda offers an exhaustive exploration of the groundbreaking realm of serverless computing emphasizing AWS Lambda Amazon Web Services premier serverless computing service As serverless architecture emerges as a pivotal trend in software development this book stands as an essential resource for software developers architects and IT professionals eager to leverage the power of serverless technology Beginning with the setup of your development environment and continuing through the design of serverless applications performance optimization and the implementation of advanced architectural patterns this guide addresses every critical facet of serverless computing Each chapter is meticulously structured to deliver comprehensive knowledge practical examples and best practices enabling readers to craft efficient secure and scalable serverless applications Whether you are a novice keen to delve into serverless computing or an experienced developer seeking to refine your skills in AWS Lambda this book provides actionable insights and clear explanations to help you navigate the intricacies of serverless architectures Unlock the potential of serverless computing reduce operational costs and accelerate your application development with Mastering Serverless A Deep Dive into AWS Lambda Immerse yourself in the future of computing and revolutionize the way you build applications in the cloud **AWS Lambda** Mike Chapin,2017 3 5 Hours of Video Instruction on AWS Lambda and Serverless Applications Overview More than 3 5 hours of practical video instruction on AWS Lambda Amazon s Functions as a Service technology and how to build Serverless applications The aim throughout this course is not to give you just cookie cutter examples but instead to give you a thorough understanding of the Lambda platform and programming model so you ll have confidence building your own Serverless applications Description Serverless is a new cloud computing approach to architecting and building applications It enables faster delivery of business value and reduced operational cost and

complexity together with virtually limitless and effortless scaling The core technology class of a Serverless architecture is Functions as a Service and the most mature Functions as a Service product is Lambda from Amazon Web Services AWS Lambda LiveLessons is designed to give you a thorough understanding of the Lambda platform and programming model so you ll have confidence building your own Serverless applications Although AWS Lambda natively supports several languages including Javascript Python and C this video tutorial uses Java and its Java Virtual Machine as the development language and runtime for all examples The video starts off by introducing Serverless and answering the question What is Lambda It explains Serverless fundamentals and compares the different Serverless technology classes of Backend as a Service and Functions as a Service as well as the benefits and limitations of Serverless Next Roberts and Chapin review the necessary environment prerequisites before showing you how to code and execute your first Lambda function They then drill down into some details of the Lambda model and show you how to build a Lambda backed web application using API Gateway Finally the course covers some additional theory to give you a more advanced understanding of AWS Lambda Roberts and Chapin close by looking more holistically at Serverless architectures and providing a detailed overview of Serverless technology beyond AWS Lambda including a range of examples of how Serverless architectures are built in the real world AWS Lambda LiveLessons consists of seven lessons totaling more than 4 hours of instruction The videos feature easy to understand explanations of key concepts realistic examples and demonstrations of industrial grade deployments View the link resources

Leveraging Serverless Architectures for Scalable Applications with AWS Lambda Stephen Cole,2025-09-17 What if you could build applications that scale effortlessly without ever managing a single server What if your systems could handle millions of requests while saving you money at the same time In today s fast moving tech world speed cost efficiency and scalability are everything Serverless computing with AWS Lambda is the future of cloud development and this book shows you exactly how to master it Leveraging Serverless Architectures for Scalable Applications with AWS Lambda is your practical step by step guide to designing and deploying modern event driven systems Whether you re a developer architect DevOps engineer or tech leader this book equips you with the tools and strategies to build applications that are not only lightweight and scalable but also highly cost effective Inside you ll discover A clear introduction to serverless computing and why it s reshaping the cloud Hands on projects for building REST APIs real time applications data pipelines and more Integration techniques with AWS services like S3 DynamoDB API Gateway and Step Functions Best practices for scalability cost optimization and security in serverless environments Advanced topics such as serverless microservices DevOps automation and machine learning pipelines Real world case studies from industries like e commerce IoT and media streaming Future trends in serverless computing including AI edge computing and hybrid architectures This is more than just a technical manual it s a roadmap to building cloud native applications that thrive in the modern digital economy Every chapter blends clear explanations with actionable exercises ensuring you learn by doing not just by reading If you re ready to build

smarter scale faster and pay only for what you use this book will transform how you think about cloud development Get your copy now and start building the future with AWS Lambda **Programming AWS Lambda** John Chapin,Mike Roberts,2020-03-18 Serverless revolutionizes the way organizations build and deploy software With this hands on guide Java engineers will learn how to use their experience in the new world of serverless computing You ll discover how this cloud computing execution model can drastically decrease the complexity in developing and operating applications while reducing costs and time to market Engineering leaders John Chapin and Mike Roberts guide you through the process of developing these applications using AWS Lambda Amazon s event driven serverless computing platform You ll learn how to prepare the development environment program Lambda functions and deploy and operate your serverless software The chapters include exercises to help you through each aspect of the process Get an introduction to serverless functions as a service and AWS Lambda Learn how to deploy working Lambda functions to the cloud Program Lambda functions and learn how the Lambda platform integrates with other AWS services Build and package Java based Lambda code and dependencies Create serverless applications by building a serverless API and data pipeline Test your serverless applications using automated techniques Apply advanced techniques to build production ready applications Understand both the gotchas and new opportunities of serverless architecture   Serverless Architecture with AWS Mohit Gupta,2019 Serverless Architectures with AWS begins by talking about the serverless model and getting started with AWS and Lambda You ll also discover the main advantages and disadvantages of the serverless model through various use cases You ll also explore other capabilities of the AWS Serverless Platform and see how AWS supports enterprise grade serverless applications with and without Lambda From Compute to API Gateway from storage to database the fully managed services for building and running serverless applications on AWS are discussed in detail Then you ll use your learnings to deploy your first serverless project You ll also explore the capabilities of serverless Amazon Athena an interactive query service that makes it easy to analyze data directly in Amazon Simple Storage Service Amazon S3 using standard SQL Then you ll learn about AWS Glue a fully managed ETL service that makes it simple and cost effective to categorize your data You ll study how Amazon Kinesis makes it possible to unleash the potential of real time data insights and analytics by offering capabilities such as Kinesis Video Streams Kinesis Data Streams Kinesis Data Firehose and Kinesis Data Analytics Last but not least you ll learn to combine Amazon Kinesis capabilities with AWS Lambda to create lightweight serverless architectures Resource description page   **Architect for AWS Serverless Applications** William Smith,2025-09-26 Architect for AWS Serverless Applications Unlock the full potential of modern cloud native design with Architect for AWS Serverless Applications a comprehensive guide for professionals seeking mastery over the AWS serverless ecosystem Blending foundational concepts with advanced application patterns this book delves into the core principles that distinguish serverless paradigms covering not just the functional and economic motivators but also the architectures and use cases that make serverless ideal for event driven scalable workloads Through a

critical lens it explores AWS s suite of services including Lambda API Gateway Step Functions DynamoDB S3 SNS SQS and EventBridge enabling readers to confidently choose the right tool for each scenario Structured for both immediate practical value and long term architectural insight each chapter leads readers through key components of robust serverless applications The text offers detailed coverage of compute patterns with AWS Lambda secure and efficient API designs and state of the art data persistence strategies for both NoSQL and relational needs Workflow automation fine grained security engineering safe deployment practices and infrastructure as code are explored with clarity providing actionable techniques for implementing operationally sound and auditable solutions Further issues of observability monitoring cost management and disaster recovery are addressed equipping architects and engineers with knowledge to maintain optimize and future proof their deployments Rounding out its scope the book investigates frontier topics including hybrid and edge serverless architectures real time analytics IoT integration and multi cloud solutions alongside proven migration strategies for transforming legacy systems Whether charting a migration from monolith to cloud native or integrating machine learning workflows readers will appreciate the emphasis on battle tested patterns and forward looking trends Architect for AWS Serverless Applications is the essential resource for architects engineers and technology leaders charting their course in the dynamic world of AWS serverless innovation **AWS Certified Developer Official Study Guide, Associate Exam** Nick Alteen,Jennifer Fisher,Casey Gerena,Wes Gruver,Asim Jalis,Heiwad Osman,Marife Pagan,Santosh Patlolla,Michael Roth,2019-08-22 Foreword by Werner Vogels Vice President and Corporate Technology Officer Amazon The AWS exam has been updated Your study guide should be too The AWS Certified Developer Official Study Guide Associate Exam is your ultimate preparation resource for the latest exam Covering all exam objectives this invaluable resource puts a team of AWS experts at your side with expert guidance clear explanations and the wisdom of experience with AWS best practices You ll master core services and basic architecture and equip yourself to develop deploy and debug cloud based applications using AWS The AWS Developer certification is earned by those who demonstrate the technical knowledge and skill associated with best practices for building secure reliable cloud based applications using AWS technology This book is your official exam prep companion providing everything you need to know to pass with flying colors Study the AWS Certified Developer Exam objectives Gain expert insight on core AWS services and best practices Test your understanding of key concepts with challenging chapter questions Access online study tools including electronic flashcards a searchable glossary practice exams and more Cloud computing offers businesses the opportunity to replace up front capital infrastructure expenses with low variable costs that scale as they grow This customized responsiveness has negated the need for far future infrastructure planning putting thousands of servers at their disposal as needed and businesses have responded propelling AWS to the number one spot among cloud service providers Now these businesses need qualified AWS developers and the AWS certification validates the exact skills and knowledge they re looking for When you re ready to get serious about your cloud

credentials the AWS Certified Developer Official Study Guide Associate Exam is the resource you need to pass the exam with flying colors NOTE As of October 7 2019 the accompanying code for hands on exercises in the book is available for downloading from the secure Resources area in the online test bank You ll find code for Chapters 1 2 11 and 12

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