

Aws Lambda A Guide To Serverless Microservices

Summary AWS Lambda in Action is an example-driven tutorial that teaches you how to build applications that use an event-driven approach on the back end. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology With AWS Lambda, you write your code and upload it to the AWS cloud. AWS Lambda responds to the events triggered by your application or your users, and automatically manages the underlying computer resources for you. Back-end tasks like analyzing a new document or processing requests from a mobile app are easy to implement. Your application is divided into small functions, leading naturally to a reactive architecture and the adoption of microservices. About the Book AWS Lambda in Action is an example-driven tutorial that teaches you how to build applications that use an event-driven approach on the back-end. Starting with an overview of AWS Lambda, the book moves on to show you common examples and patterns that you can use to call Lambda functions from a web page or a mobile app. The second part of the book puts these smaller examples together to build larger applications. By the end, you'll be ready to create applications that take advantage of the high availability, security, performance, and scalability of AWS. What's Inside Create a simple API Create an event-driven media-sharing application Secure access to your application in the cloud Use functions from different clients like web pages or mobile apps Connect your application with external services About the Reader Requires basic knowledge of JavaScript. Some examples are also provided in Python. No AWS experience is assumed. About the Author Danilo Poccia is a technical evangelist at Amazon Web Services and a frequent speaker at public events and workshops. Table of Contents PART 1 - FIRST STEPS Running functions in the cloud Your first Lambda function Your function as a web API PART 2 - BUILDING EVENT-DRIVEN APPLICATIONS Managing security Using standalone functions Managing identities Calling functions from a client Designing an authentication service Implementing an authentication service Adding more features to the authentication service Building a media-sharing application Why event-driven? PART 3 - FROM DEVELOPMENT TO PRODUCTION Improving development and testing Automating deployment Automating infrastructure management PART 4 - USING EXTERNAL SERVICES Calling external services Receiving events from other services

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.

AWS Lambda (FREE BONUS INCLUDED) The Ultimate Guide To Serverless Microservices - Learn Everything You Need To Know About Microservices Without Servers! When we look at the Internet many of us take for granted how large and complex the infrastructure really is. When you look at the internet you just see a desktop computer, laptop, tablet, television or whatever other device you use as the interface to get your content. Almost no one ever thinks about what is needed to store and access this information at a moments notice. Well the good thing is that with the advancement of technology and resources many of us will never have to really know but we can now all take advantage of this innovation and start creating our own slice of heaven on the Internet at about \$.007 an hour. Yes that's one seventh of a penny per hour. Do you want to know how? You can do this through the power of AWS. AWS stands for Amazon Web Services. If you are not familiar with it you soon will be. In this book we will explore AWS and what it can do for you. You will learn how companies such as Netflix, Zillow, and even NASA are using these services to drastically decrease their data processing and storage fees by \$50,000 a month or more by using the cloud and AWS technology. So if you have ever dreamed about starting your own web service like Netflix, offer up content on demand and become your own Internet powerhouse then you need to read how the big boys are doing it by downloading this book today.

Get prepared for the AWS Certified Security Specialty certification with this excellent resource By earning the AWS Certified Security Specialty certification, IT professionals can gain valuable recognition as cloud security experts. The AWS Certified Security Study Guide: Specialty (SCS-C01) Exam helps cloud security practitioners prepare for success on the certification exam. It's also an excellent reference for professionals, covering security best practices and the implementation of security features for clients or employers. Architects and engineers with knowledge of cloud computing architectures will find significant value in this book, which offers guidance on primary security threats and defense principles. Amazon Web Services security controls and tools are explained through real-world scenarios. These examples demonstrate how professionals can design, build, and operate secure cloud environments that run modern applications. The study guide serves as a primary source for those who are ready to apply their skills and seek certification. It addresses how cybersecurity can be improved using the AWS cloud and its native security services. Readers will benefit from detailed coverage of AWS Certified Security Specialty Exam topics. Covers all AWS Certified Security Specialty exam topics Explains AWS cybersecurity techniques and incident response Covers logging and monitoring using the Amazon cloud Examines infrastructure security Describes access management and data protection With a single study resource, you can learn how to enhance security through the automation, troubleshooting, and development integration capabilities available with cloud computing. You will also discover services and tools to develop security plans that work in sync with cloud adoption.

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

AWS Lambda The Ultimate Beginners Guide To Learning The Basics Of Micro-services Without Servers AWS Lambda solves a lot of problems for developers. Essentially, it allows you to run code without

the need to manage or provision your servers. You pay for nothing more than the compute time you eat up, and you don't get charged a dime whenever your code isn't running! In AWS Lambda: The Ultimate Beginners Guide To Learning The Basics Of Micro services Without Servers I simplify AWS Lambda, offering a variety of essential tutorials that appeal to both the rookie and pro software developer, engineer, systems admin general IT worker who want to code with supreme ease! Code the easy way today. Here is a preview of what you'll learn: An introduction to AWS Lambda How it works How to use it How to build AWS Lambda-based applications How to overcome the most common gremlins ++ A wealth of tips and tricks

A practical, real-world introduction to AWS tools and concepts Amazon Web Services for Mobile Developers: Building Apps with AWS presents a professional view of cloud computing and AWS for experienced iOS/Android developers and technical/solution architects. Cloud computing is a rapidly expanding ecosystem, and working professionals need a practical resource to bring them up-to-date on tools that are rapidly becoming indispensable; this book helps expand your skill set by introducing you to AWS offerings that can make your job easier, with a focus on real-world application. Author and mobile applications developer Abhishek Mishra shows you how to create IAM accounts and try out some of the most popular services, including EC2, Lambda, Mobile Analytics, Device Farm, and more. You'll build a chat application in both Swift (iOS) and Java (Android), running completely off AWS Infrastructure to explore SDK installation, Xcode, Cognito authentication, DynamoDB, Amazon SNS Notifications, and other useful tools. By actually using the tools as you learn about them, you develop a more intuitive understanding that feels less like a shift and more like a streamlined integration. If you have prior experience with Swift or Java and a solid knowledge of web services, this book can help you quickly take your skills to the next level with a practical approach to learning that translates easily into real-world use. Understand the key concepts of AWS as applied to both iOS and Android developers Explore major AWS offerings for mobile developers, including DynamoDB, RDS, EC2, SNS, Cognito, and more Learn what people are talking about when they use buzzwords like PaaS, IaaS, SaaS, and APaaS Work through explanations by building apps that tie into the AWS ecosystem Any job is easier with the right tools, and Amazon Web Services for Mobile Developers: Building Apps with AWS gets you acquainted with an ever-expanding toolkit for mobile app development.

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.

AWS Lambda A Complete User Guide for Beginners To Serverless Microservice Have you been thinking of a career in IT? In your looking around the web, have you been intrigued by the concept of microservices, and particularly of something you have heard of called Lambda? If you answered "yes" to those questions, then this guide is for you. This beginners' guide begins with the assumption that the reader is the base level of IT knowledge, in other words, a total noob. As such, many terms that are loosely thrown around in other guides and articles around the web are actually defined here. We also provide you with a list of other resources that you can explore at your leisure to build up your knowledge of AWS, AWS Lambda and microservices in general.

Build cost-effective and highly scalable Serverless applications using AWS Lambda. About This Book* Leverage AWS Lambda to significantly lower your infrastructure costs and deploy out massively scalable, event-driven systems and applications* Learn how to design and build Lambda functions using real-world examples and implementation scenarios* Explore the Serverless ecosystem with a variety of toolsets and AWS services including DynamoDB, API Gateway, and much more! Who This Book Is For If you are a Cloud administrator and/or developer who wishes to explore, learn, and leverage AWS Lambda to design, build, and deploy Serverless applications in the cloud, then this is the book for you! The book assumes you have some prior knowledge and hands-on experience with AWS core services such as EC2, IAM, S3, along with the knowledge to work with any popular programming language such as Node.js, Java, C#, and so on. What You Will Learn* Understand the hype, significance, and business benefits of Serverless computing and applications* Plunge into the Serverless world of AWS Lambda and master its core components and how it works* Find out how to effectively and efficiently design, develop, and test Lambda functions using Node.js, along with some keen coding insights and best practices* Explore best practices to effectively monitor and troubleshoot Serverless applications using AWS CloudWatch and other third-party services in the form of Datadog and Loggly* Quickly design and develop Serverless applications by leveraging AWS Lambda, DynamoDB, and API Gateway using the Serverless Application Framework (SAF) and other AWS services such as Step Functions* Explore a rich variety of real-world Serverless use cases with Lambda and see how you can apply it to your environments In Detail AWS is recognized as one of the biggest market leaders for cloud computing and why not? It has evolved a lot since the time it started out by providing just basic services such as EC2 and S3 and today; they go all the way from IoT to Machine Learning, Image recognition, Chatbot Frameworks, and much more! One of those recent services that is also gaining a lot of traction is AWS Lambda! Although seemingly simple and easy to use, Lambda is a highly effective and scalable compute service that provides developers with a powerful platform to design and develop Serverless event-driven systems and applications. The book begins with a high-level introduction into the world of Serverless computing and its advantages and use cases, followed by a deep dive into AWS Lambda! You'll learn what services AWS Lambda provides to developers; how to design, write, and test Lambda functions; as well as monitor and troubleshoot them. The book is designed and accompanied with a vast variety of real-world examples, use cases, and code samples that will enable you to get started on your Serverless applications quickly. By the end of the book, you will have gained

all the skills required to work with AWS Lambda services! Style and approach This step-by-step guide will help you build Serverless applications and run Serverless workloads using the AWS Lambda service. You'll be able to get started with it in a matter of minutes with easy-to-follow code snippets and examples.

AWS Lambda - A Guide to Serverless Microservices takes a comprehensive look at developing "serverless" workloads using the new Amazon Web Services Lambda service. Lambda enables users to develop code that executes in response to events - API calls, file uploads, schedules etc. - and upload it without worrying about managing traditional server metrics such as disk space, memory, or CPU usage. With its "per execution" cost model, Lambda can enable organizations to save hundreds or thousands of dollars on computing costs. With in depth walkthroughs, large screenshots, and complete code samples, the reader is guided through the step-by-step process of creating new functions, responding to infrastructure events, developing API backends, executing code at specified intervals, and much more. Since its introduction at AWS re-invent in 2014, AWS Lambda has continued to be one of the fastest growing AWS services. With its arrival, a new application architecture diagram paradigm was created - referred to as serverless. AWS now provides a number of different services that allows you to build full assistants, Internet of Things (IoT) backends, and more can all be fully serverless. For the logic layer of a serverless application, you can execute your business logic using AWS Lambda. Developers and organizations are finding that AWS Lambda is enabling much faster development speed and experimentation than is possible when deploying applications in a traditional server-based environment. This book is meant to provide you with a broad overview of AWS Lambda, its features, a hands-on and indepth guide to serverless microservices and a slew of recommendations. So what're you waiting for? Get a copy of this AWS Lambda book now!

AWS Lambda - The Complete Beginner's Guide ? ? ? Free Bonus Included? ? ? This book is an exploration of the AWS Lambda. The first part is a guide for you on how to create a deployment package in the various programming languages such as Java, Node.JS, and Python. The concept of limits in AWS Lambda resources is discussed, and you will learn more about how to work with them. Due to concurrent execution, which you might need to support, you will be guided on how to override the defaults for these limits on the various resources. Event sources in AWS Lambda are also discussed in detail, and thus, you will learn more about them. The permissions which are necessary for us to use the various resources in AWS Lambda are also explored, so that you will learn how to grant these to your account. The AWS Lambda console is of great importance, but there are permissions which you must have for you to use it. These are examined in detail, as well as the Resource-Based Policies in AWS Lambda Actions. Here is a preview of what's inside: - Creation of a Deployment Package - AWS Lambda Limits - Event Sources in AWS Lambda - Managing Resource Access Permissions - Permissions Required for Using AWS Lambda Console - Resource-Based Policies in AWS Lambda Take Action Today and Learn AWS Lambda In No Time! Click the "Buy now with 1-Click" to the right and get this guide immediately.

AWS Lambda Serverless Microservices Guide with Simple Instructions This book is a guide to AWS (Amazon Web Services). The first part is a guide to what AWS is and where it is used. The evolution of the computing workload will also be discussed so that you can know more about it. The background of Lambda will also be discussed in detail, to give you a greater understanding of it. You will also be guided as to how to set up the AWS Lambda. Events are very important when dealing with any software, so this book will explain how to use events in AWS Lambda. To be able to access resources in an AWS account, you must have the necessary permissions to do so. These will be discussed in detail. Roles are also very important when it comes to accessing the resources of another AWS account, which is referred to as cross-account access. This book will guide you on how to do this. The process of using modules in AWS will also be explored. Another topic covered in this book is management of logs in AWS. Each AWS user needs to upload images to their account, so this book will describe how to work with images in AWS. The AWS API gateway will also be discussed in detail. Here is a preview of what you'll learn: Introduction to AWS Computing Evolution of the Computing Workload Lambda Background The Basics of Lambda Setting it up Working with Events Roles and Permissions Cross Account Access Node Modules Logging S3 Image Processing Shutting Down Untagged Instances AWS API Gateway Download your copy of AWS Lambda by scrolling up and clicking "Buy Now With 1-Click" button.

Amazon Web Services (AWS) Lambda lets you run JavaScript (Node.js), Java & Python scripts/apps in Amazon's (virtually) infinitely-scalable cloud environment without having provision VM instances or other "orquestration"; Everything is dynamically auto-scaled so if you have 1 user or 1 billion you pay for usage. AWS are effectively disrupting their (own) existing business with Lambda. Instead of forcing us to pay for EC2 instances in fixed increments and have complex application monitoring/scaling, AWS have built a much simpler way of building & running micro-services. Lambda also disrupts other Platform-as-a-Service ("PaaS") providers such as Heroku, Google App Engine, Azure or Modulus where you pay for a specific amount of compute power & RAM but have a scaling delay and scale in a fixed increment(instances).

Quickstart guide for AWS Amazon Web Services Lambda AWS Lambda is an incredibly versatile and powerful platform, but only if you know how to use it! Need to learn AWS Lambda fast? AWS Lambda is a serverless, event-driven cloud platform. With Lambda, your computing resources are as big as your imagination! Lower your infrastructure costs while deploying systems and applications that are infinitely scalable. Learn how to design and then build Lambda functions and master AWS Lambda with actual code and examples contained in this book. When you understand how to use Amazon Web Services and AWS Lambda specifically, you unlock a world of computing power and possibilities. Get the most out of AWS Lambda simply by following the easy instructions fully explained inside this guide. It doesn't matter if you have never used AWS before. This step-by-step guide gives you everything you need to know to do more with AWS Lambda than you ever thought possible! Fully up to date The world of cloud computing is changing constantly and yesterday's instructions are useless today. Save yourself the headache and frustration of trying to use a guide that just doesn't work anymore! Brand new and up to date, this guide shows you exactly what you need to do to get up and running on AWS Lambda today! Here is a preview of what you will learn in this guide: What is AWS Lambda? Why use AWS Lambda? How to begin using AWS Lambda Familiarizing yourself with the Serverless Framework Defining core concepts in the Serverless Framework Installing the Serverless Framework Setting Up Credentials Creating Amazon Web Services Access Keys Using Amazon Web Services Access Keys Quick Setup Using Amazon Web Services Profiles to Set up Using Services, Functions, and Events Services Functions Events Deployment Samples and Implementation And so much more!

If you aren't a tech-savvy person, have no fear! With this guide in your hands that will not be a barrier for you any longer. Learn AWS Lambda quickly and easily when you grab this guide now!

Discover techniques and tools for building serverless applications with AWS Lambda Key Features Learn to write, run, and deploy Lambda functions in the AWS cloud Make the most of AWS Lambda functions to build scalable and cost-efficient systems A practical guide to developing serverless services and applications in Node.js, Java, Python, and C# Book Description AWS Lambda is a part of AWS that lets you run your code without provisioning or managing servers. This enables you to deploy applications and backend services that operate with no upfront cost. This book gets you up to speed on how to build scalable systems and deploy serverless applications with AWS Lambda. The book starts with the fundamental concepts of AWS Lambda, and then teaches you how to combine your applications with other AWS services, such as AmazonAPI Gateway and DynamoDB. This book will also give a quick walk through on how to use the Serverless Framework to build larger applications that can structure code or autogenerate boilerplate code that can be used to get started quickly for increased productivity. Toward the end of the book, you will learn how to write, run, and test Lambda functions using Node.js, Java, Python, and C#. What you will learn Understand the fundamental concepts of AWS Lambda Get to grips with the Serverless Framework and how to create a serverless project Testing and debugging Lambda functions Create a stateful, serverless backend with DynamoDB Program AWS Lambda with Java, Python, and C# Program a lambda function with Node.js Who this book is for This book is primarily for IT architects and developers who want to build scalable systems and deploy serverless applications with AWS Lambda. No prior knowledge of AWS is necessary.

AWS Lambda is a compute service that lets you run code without provisioning or managing servers. AWS Lambda executes your code only when needed and scales automatically, from a few requests per day to thousands per second. You pay only for the compute time you consume - there is no charge when your code is not running. With AWS Lambda, you can run code for virtually any type of application or backend service - all with zero administration. AWS Lambda runs your code on a high-availability compute infrastructure and performs all of the administration of the compute resources, including server and operating system maintenance, capacity provisioning and automatic scaling, code monitoring and logging. All you need to do is supply your code in one of the languages that AWS Lambda supports (currently Node.js, Java, C#, Go and Python). The official study guide for the AWS certification specialty exam The AWS Certified Advanced Networking Official Study Guide – Specialty Exam helps to ensure your preparation for the AWS Certified Advanced Networking – Specialty Exam. Expert review of AWS fundamentals align with the exam objectives, and detailed explanations of key exam topics merge with real-world scenarios to help you build the robust knowledge base you need to succeed on the exam—and in the field as an AWS Certified Networking specialist. Coverage includes the design, implementation, and deployment of cloud-based solutions; core AWS services implementation and knowledge of architectural best practices; AWS service architecture design and maintenance; networking automation; and more. You also get one year of free access to Sybex's online interactive learning environment and study tools, which features flashcards, a glossary, chapter tests, practice exams, and a test bank to help you track your progress and gauge your readiness as exam day grows near. The AWS credential validates your skills surrounding AWS and hybrid IT network architectures at scale. The exam assumes existing competency with advanced networking tasks, and assesses your ability to apply deep technical knowledge to the design and implementation of AWS services. This book provides comprehensive review and extensive opportunities for practice, so you can polish your skills and approach exam day with confidence. Study key exam essentials with expert insight Understand how AWS skills translate to real-world solutions Test your knowledge with challenging review questions Access online study tools, chapter tests, practice exams, and more Technical expertise in cloud computing, using AWS, is in high demand, and the AWS certification shows employers that you have the knowledge and skills needed to deliver practical, forward-looking cloud-based solutions. The AWS Certified Advanced Networking Official Study Guide – Specialty Exam helps you learn what you need to take this next big step for your career. Build reliable, asynchronous, and distributed applications using message queuing and task orchestration capabilities of Amazon Web Services (AWS) Application Integration. This book prepares you to build distributed applications and administrators, and manage queues, workflows, and state machines. You'll start by reviewing key AWS prerequisite services such as EC2, Lambda, S3, DynamoDB, CloudWatch, and IAM. Simple Queue Service (SQS) and SNS Simple Notification Service (SNS) are then covered to show how applications interact with each other in a reliable and resilient fashion. Next, workflow building with (Simple Workflow Service (SWF) for orchestration of tasks is explained and in the final chapter learn the techniques for building a state using Step Functions, Simple Workflow Service along with Flow Framework. The book illustrates all the concepts using numerous examples that work with SDK, CLI, and Console. Most of the code examples are in Java, followed by Python and JavaScript. What You Will Learn Understand the important prerequisites of AWS, such as EC2, Lambda, S3, and DynamoDB Work with SQS, SNS, and SWS functions Review Step functions Who This Book Is For AWS developers and software developers proficient in Java, Python and JavaScript.

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Lambda Take Action Today and Learn AWS Lambda In No Time! Click the "Buy now with 1-Click" to the right and get this guide immediately.

Serverless is a revolution in the way organizations build and deploy software. With this hands-on guide, Java engineers will learn how to use their language experience in the new world of serverless computing. You'll discover how this cloud computing model can drastically reduce 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 serverless 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. Chapters includes 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 to get data in and out 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

Build cost-effective and highly scalable Serverless applications using AWS Lambda. About This Book Leverage AWS Lambda to significantly lower your infrastructure costs and deploy out massively scalable, event-driven systems and applications Learn how to design and build Lambda functions using real-world examples and implementation scenarios Explore the Serverless ecosystem with a variety of toolsets and AWS services including DynamoDB, API Gateway, and much more! Who This Book Is For If you are a Cloud administrator and/or developer who wishes to explore, learn, and leverage AWS Lambda to design, build, and deploy Serverless applications in the cloud, then this is the book for you! The book assumes you have some prior knowledge and hands-on experience with AWS core services such as EC2, IAM, S3, along with the knowledge to work with any popular programming language such as Node.js, Java, C#, and so on. What You Will Learn Understand the hype, significance, and business benefits of Serverless computing and applications Plunge into the Serverless world of AWS Lambda and master its core components and how it works Find out how to effectively and efficiently design, develop, and test Lambda functions using Node.js, along with some keen coding insights and best practices Explore best practices to effectively monitor and troubleshoot Serverless applications using AWS CloudWatch and other third-party services in the form of Datadog and Loggly Quickly design and develop Serverless applications by leveraging AWS Lambda, DynamoDB, and API Gateway using the Serverless Application Framework (SAF) and other AWS services such as Step Functions Explore a rich variety of real-world Serverless use cases with Lambda and see how you can apply it to your environments In Detail AWS is recognized as one of the biggest market leaders for cloud computing and why not? It has evolved a lot since the time it started out by providing just basic services such as EC2 and S3 and today; they go all the way from IoT to Machine Learning, Image recognition, Chatbot Frameworks, and much more! One of those recent services that is also gaining a lot of traction is AWS Lambda! Although seemingly simple and easy to use, Lambda is a highly effective and scalable compute service that provides developers with a powerful platform to design and develop Serverless event-driven systems and applications. The book begins with a high-level introduction into the world of Serverless computing and its advantages and use cases, followed by a deep dive into AWS Lambda! You'll learn what services AWS Lambda provides to developers; how to design, write, and test Lambda functions; as well as monitor and troubleshoot them. The book is designed and accompanied with a vast variety of real-world examples, use cases, and code samples that will enable you to get started on your Serverless applications quickly. By the end of the book, you will have gained all the skills required to work with AWS Lambda services! Style and approach This step-by-step guide will help you build Serverless applications and run Serverless workloads using the AWS Lambda service. You'll be able to get started with it in a matter of minutes with easy-to-follow code snippets and examples.

AWS Lambda The Complete User Guide - Learn Everything You Need To Know About Serverless Microservices Learn everything you need to know about AWS Lambda! Like never before this book breaks down the best methods and techniques you need to be successful with this ground breaking new platform! Teaching you step by step how to execute and implement AWS from beginning to end, this book brings it all home! AWS Lambda is a micro processing wonder in the works! Don't get left behind in this cloud based revolution! Discover how to create your own unique code that is fully capable of being event executed! Become the master of event scheduling, API calls, while keeping constant tabs of your actual memory, disk space, and CPU usage. This user guide is complete with step-by-step tutorials, code examples, and function displays on how you can program your virtual server to do millions of calculations. You will never find this much inside information on AWS Lambda anywhere else! So what are you waiting for? Buy this book to find out more! In this book you will learn: To become accustomed to the AWS Lambda toolset To create apps that use AWS Lambda To calculate costs and benefits Programming Language Uploading Functions AWS Event Scheduling Permissions and Roles How to conduct Log Searches About API Gateways And Everything Else In Between!

Get to grips with security assessment, vulnerability exploitation, workload security, and encryption with this guide to ethical hacking and learn to secure your AWS environment Key Features Perform cybersecurity events such as red or blue team activities and functional testing Gain an overview and understanding of AWS penetration testing and security Make the most of your AWS cloud infrastructure by learning about AWS fundamentals and exploring pentesting best practices Book Description Cloud security has always been treated as the highest priority by AWS while designing a robust cloud infrastructure. AWS has now extended its support to allow users and security experts to perform penetration tests on its environment. This has not only revealed a number of loopholes and brought vulnerable points in their existing system to the fore, but has also opened up opportunities for organizations to build a secure cloud environment. This book teaches you how to perform penetration tests in a controlled AWS environment. You'll begin by performing security assessments of major AWS resources such as Amazon EC2 instances, Amazon S3, Amazon API Gateway, and AWS Lambda. Throughout the course of this book, you'll also learn about specific tests such as exploiting applications, testing permissions flaws, and discovering weak policies. Moving on, you'll discover how to establish private-cloud access through backdoor Lambda functions. As you advance, you'll explore the no-go areas where users can't make changes due to vendor restrictions and find out how you can avoid being flagged to AWS in these cases. Finally, this book will take you through tips and tricks for securing your cloud environment in a professional way. By the end of this penetration testing book, you'll have become well-versed in a variety of ethical hacking techniques for securing your

AWS environment against modern cyber threats. What you will learn Set up your AWS account and get well-versed in various pentesting services Delve into a variety of cloud pentesting tools and methodologies Discover how to exploit vulnerabilities in both AWS and applications Understand the legality of pentesting and learn how to stay in scope Explore cloud pentesting best practices, tips, and tricks Become competent at using tools such as Kali Linux, Metasploit, and Nmap Get to grips with post-exploitation procedures and find out how to write pentesting reports Who this book is for If you are a network engineer, system administrator, or system operator looking to secure your AWS environment against external cyberattacks, then this book is for you. Ethical hackers, penetration testers, and security consultants who want to enhance their cloud security skills will also find this book useful. No prior experience in penetration testing is required; however, some understanding of cloud computing or AWS cloud is recommended.

AWS Lambda The Essential Guide To Learning Everything You Need To Know About Microservices Without Servers! This guide will explore Amazon's Lambda web service. In this succinct eBook you will learn what AWS Lambda is, how it works and also get to grips with how to create a few simple Lambda functions. Here is a preview of what you'll learn: Chapter 1 - What is AWS Lambda? Chapter 2 - What is a Lambda function? Chapter 3 - Creating an AWS account and IAM roles Chapter 4 - Creating a simple Lambda function Chapter 5 - Using the Amazon Gateway API

AWS Lambda 2019 Beginner's Guide to Serverless Microservices. The trend has been threatening to surface for long and there's no better time than now to welcome a serverless architecture into the picture. Rather than draining your energy on the architectural aspect, why not focus your strength and energy on what you know how to do best. AWS Lambda takes the stress of having to deal with the architectural aspect of building software while saving your energy for the actual job of coding. This beginners guide on Serverless Microservice takes a complete look at what a serverless framework has to offer. Reducing your workload, increasing efficiency and cutting down production cost. To help you take advantage of what this platform has to offer, we've prepared this guide to help you explore the benefits that comes with a serverless framework. Enabling users to execute task faster and better to help you improve results. Image resize, file uploads, API integration and event creation. This guide touches every aspect of this technology that will help you perform task better with just minimum effort. With step-by-step guides, in-depth analysis and screenshot, the reader is taken by the hand and walked through every chapter. We take you from scratch, assuming you have zero knowledge about this technology. We start with a detailed introduction of what AWS is all about, before proceeding to it's features. Furthermore, we walk you through the process of creating events and assigning roles to your functions. With CloudFormation, comes a way to assemble all details in one format to carry out a single functionality. We understand that learning a new concept is quite intimidating and hard to comprehend at the same time. We've made every concept easy to understand using everyday language familiar to our ideal users. In a nutshell, here's what this guide has to offer An introductory page that covers all you need to know about AWS Lambda and the purpose it serves. How to create events and also assign roles to a function Functions are executable actions, more like a code that indicates what action should be carried out. In this guide, we will take you through 3 tested method on how to create a Function How to add permissions to a Role Easy ways to Access your functions via API Gateway. Adjusting to a new concept such as this one isn't always an easy idea especially if you're used to using servers. However, with serverless architecture, you get to reduce expenses since you're charged per usage. Save extra by learning all the tricks that comes with AWS lambda. If you're ready to make the move, this guide will walk you through all you need to know. Download your copy of " AWS Lambda " by scrolling up and clicking "Buy Now With 1-Click" button.

A practical guide for developing end-to-end serverless microservices in Python for developers, DevOps, and architects. Key Features Create a secure, cost-effective, and scalable serverless data API Use identity management and authentication for a user-specific and secure web application Go beyond traditional web hosting to explore the full range of cloud hosting options Book Description Over the last few years, there has been a massive shift from monolithic architecture to microservices, thanks to their small and independent deployments that allow increased flexibility and agile delivery. Traditionally, virtual machines and containers were the principal mediums for deploying microservices, but they involved a lot of operational effort, configuration, and maintenance. More recently, serverless computing has gained popularity due to its built-in autoscaling abilities, reduced operational costs, and increased productivity. Building Serverless Microservices in Python begins by introducing you to serverless microservice structures. You will then learn how to create your first serverless data API and test your microservice. Moving on, you'll delve into data management and work with serverless patterns. Finally, the book introduces you to the importance of securing microservices. By the end of the book, you will have gained the skills you need to combine microservices with serverless computing, making their deployment much easier thanks to the cloud provider managing the servers and capacity planning. What you will learn Discover what microservices offer above and beyond other architectures Create a serverless application with AWS Gain secure access to data and resources Run tests on your configuration and code Create a highly available serverless microservice data API Build, deploy, and run your serverless configuration and code Who this book is for If you are a developer with basic knowledge of Python and want to learn how to build, test, deploy, and secure microservices, then this book is for you. No prior knowledge of building microservices is required.

AWS Lambda The Complete Guide To Serverless Microservices - Learn Everything You Need To Know About AWS Lambda! This book provides the complete guide of AWS lambda, the serverless micro services and implementation of AWS lambda to serverless applications. Serverless micro services are relatively new term in the technological world. Serverless is new and innovative architectural design in which the computing unit should not be the virtual computing device rather to operate encapsulating the code. The book has been divided into various topics related to AWS lambda in order to explain thoroughly the serverless micro services and lambda. The first section explains the introduction to the term AWS lambda whereas the next section gives a detailed description on how to build AWS lambda application by explaining the implementation of AWS lambda. Another section is about the creation of serverless schedule by using API gateways and AWS lambda. Since the application might face troubles in creating, designing, deploying and in the implementation phase, therefore the monitoring the AWS lambda function is needed in every phase. Troubleshooting and monitoring the application of AWS lambda has also been explained comprehensively.

An effective guide to becoming an AWS Certified Developer About This Book This fast-paced guide will help you clear the exam with confidence Learn to design, develop, and deploy cloud-based solutions using AWS Enhance your AWS skills with practice questions and mock tests Who This Book Is For This book is for IT professionals and developers looking to clear the AWS Certified Developer – Associate 2017 exam. Developers looking to develop and manage their applications on the AWS platform will also find this book useful. No prior AWS experience is

needed. What You Will Learn Create and manage users, groups, and permissions using AWS Identity and Access Management services Create a secured Virtual Private Cloud (VPC) with Public and Private Subnets, Network Access Control, and Security groups Get started with Elastic Compute Cloud (EC2), launching your first EC2 instance, and working with it Handle application traffic with Elastic Load Balancing (ELB) and monitor AWS resources with CloudWatch Work with AWS storage services such as Simple Storage Service (S3), Glacier, and CloudFront Get acquainted with AWS DynamoDB – a NoSQL database service Coordinate work across distributed application components using Simple Workflow Service (SWF) In Detail AWS Certified Developer - Associate Guide starts with a quick introduction to AWS and the prerequisites to get you started. Then, this book gives you a fair understanding of core AWS services and basic architecture. Next, this book will describe about getting familiar with Identity and Access Management (IAM) along with Virtual private cloud (VPC). Moving ahead you will learn about Elastic Compute cloud (EC2) and handling application traffic with Elastic Load Balancing (ELB). Going ahead you we will talk about Monitoring with CloudWatch, Simple storage service (S3) and Glacier and CloudFront along with other AWS storage options. Next we will take you through AWS DynamoDB – A NoSQL Database Service, Amazon Simple Queue Service (SQS) and CloudFormation Overview. Finally, this book covers understanding Elastic Beanstalk and overview of AWS lambda. At the end of this book, we will cover enough topics, tips and tricks along with mock tests for you to be able to pass the AWS Certified Developer - Associate exam and develop as well as manage your applications on the AWS platform. Style and approach This step-by-step guide includes exercises and mock tests to clear the AWS certification exam and become a successful AWS developer.

AWS Lambda Book This book is an exploration of the AWS Lambda. The first part is a guide for you on how to create a deployment package in the various programming languages such as Java, Node.JS, and Python. The concept of limits in AWS Lambda resources is discussed, and you will learn more about how to work with them. Due to concurrent execution, which you might need to support, you will be guided on how to override the defaults for these limits on the various resources. Event sources in AWS Lambda are also discussed in detail, and thus, you will learn more about them. The permissions which are necessary for us to use the various resources in AWS Lambda are also explored, so that you will learn how to grant these to your account. The AWS Lambda console is of great importance, but there are permissions which you must have for you to use it. These are examined in detail, as well as the Resource-Based Policies in AWS Lambda Actions. The following topics are discussed: Creation of a Deployment Package AWS Lambda Limits Event Sources in AWS Lambda Managing Resource Access Permissions Permissions Required for Using AWS Lambda Console Resource-Based Policies in AWS Lambda Actions Here is a preview of what you'll learn: Creation of a Deployment Package AWS Lambda Limits Event Sources in AWS Lambda Managing Resource Access Permissions Permissions Required for Using AWS Lambda Console Resource-Based Policies in AWS Lambda Actions Download your copy of AWS Lambda Book by scrolling up and clicking "Buy Now With 1-Click" button.

Are your goals realistic? Do you need to redefine your problem? Perhaps the problem has changed or maybe you have reached your goal and need to set a new one? What defines best in class? What happens if cost savings do not materialize? How do you verify the AWS Lambda requirements quality? Are problem definition and motivation clearly presented? This valuable AWS Lambda self-assessment will make you the principal AWS Lambda domain master by revealing just what you need to know to be fluent and ready for any AWS Lambda challenge. How do I reduce the effort in the AWS Lambda work to be done to get problems solved? How can I ensure that plans of action include every AWS Lambda task and that every AWS Lambda outcome is in place? How will I save time investigating strategic and tactical options and ensuring AWS Lambda costs are low? How can I deliver tailored AWS Lambda advice instantly with structured going-forward plans? There's no better guide through these mind-expanding questions than acclaimed best-selling author Gerard Blokdyk. Blokdyk ensures all AWS Lambda essentials are covered, from every angle: the AWS Lambda self-assessment shows succinctly and clearly that what needs to be clarified to organize the required activities and processes so that AWS Lambda outcomes are achieved. Contains extensive criteria grounded in past and current successful projects and activities by experienced AWS Lambda practitioners. Their mastery, combined with the easy elegance of the self-assessment, provides its superior value to you in knowing how to ensure the outcome of any efforts in AWS Lambda are maximized with professional results. Your purchase includes access details to the AWS Lambda self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows you exactly what to do next. Your exclusive instant access details can be found in your book. You will receive the following contents with New and Updated specific criteria: - The latest quick edition of the book in PDF - The latest complete edition of the book in PDF, which criteria correspond to the criteria in... - The Self-Assessment Excel Dashboard - Example pre-filled Self-Assessment Excel Dashboard to get familiar with results generation - In-depth and specific AWS Lambda Checklists - Project management checklists and templates to assist with implementation INCLUDES LIFETIME SELF ASSESSMENT UPDATES Every self assessment comes with Lifetime Updates and Lifetime Free Updated Books. Lifetime Updates is an industry-first feature which allows you to receive verified self assessment updates, ensuring you always have the most accurate information at your fingertips.

Build, deploy, test, and run cloud-native serverless applications using AWS Lambda and other popular AWS services Key Features Learn how to write, run, and deploy serverless applications in Amazon Web Services Make the most of AWS Lambda functions to build scalable and cost-efficient systems Build and deploy serverless applications with Amazon API Gateway and AWS Lambda functions Book 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 learn Understand the core concepts of serverless computing in AWS Create your own AWS Lambda functions and build serverless APIs using Amazon API Gateway Explore best practices for developing serverless applications at scale using Serverless Framework Discover the DevOps patterns in a modern CI/CD pipeline with AWS CodePipeline Build serverless data processing jobs to extract, transform, and load data Enforce resource tagging policies with continuous compliance and AWS Config Create chatbots with natural language understanding to perform automated tasks Who 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.

AWS Lambda The Quick Start Guide To Serverless Microservices The use of cloud software has grown rapidly in recent years; in fact many individuals and businesses are no longer interested in using a physical server to store their data or other important information. There are a great many benefits to storing and accessing information via the internet. However, as with everything there are some elements which still need to be improved and a steep learning curve to ensure you get the most out of the AWS Lambda software. The ultimate aim for anyone adopting this system is likely to be the abolishment of their physical servers and a reliance on a network of virtual servers with specifically written code to ensure the right information is available when needed. This is where the AWS Lambda comes into action. This will enable you to write simple pieces of code which can confirm when changes have been made or new instructions added as well as a host of other items to ensure a virtual server system works better for you than the physical option. Here is a preview of what you'll learn: An explanation of what AWS Lambda is and how it can help you The basic features, functions and specification How to set it up and start using it Several tips to get the most from the AWS system now and building for the future.

AWS Lambda The Complete Guide To Getting Started With Serverless Microservices - Plus Little-Known Tips And Tricks! These days, we can say the more callable and flexible architectures of microservices as compared to its predecessors that monolithic. The infrastructure of distributed systems gets lashed to the legacy when an application begin using microservices. It is costly to manage, maintain and set up the 3-tier infrastructure with the conventional physical software components to ensure that every step would work in each tier and level, there should be a simple adjustment to an application that can turn into the time-taking and extensive projects for the developer in the initial stages. In this book, you are going to read the useful information and tips about getting started with serverless microservices. The main focus is on contents, creation, and organization of this process. All you need to do is to follow and share this book for spreading the awareness about AWS Lambda. The detailed guide and steps shared in this book are based on the in-depth and factual-based information. From the overview to the tips, the major purpose of writing this book is to give you right information about turning the time-taking projects in quick tasks through serverless computing.

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