

## Aws Lambda The Complete Guide To Serverless Microservices Learn Everything You Need To Know About Aws Lambda

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.

This volume constitutes the refereed proceedings of the 27th European Conference on Systems, Software and Services Process Improvement, EuroSPI conference, held in Düsseldorf, Germany, in September 2020\*. The 50 full papers and 13 short papers presented were carefully reviewed and selected from 100 submissions. They are organized in topical sections on visionary papers, SPI manifesto and improvement strategies, SPI and emerging software and systems engineering paradigms, SPI and standards and safety and security norms, SPI and team performance & agile & innovation, SPI and agile, emerging software engineering paradigms, digitalisation of industry, infrastructure and e-mobility, good and bad practices in improvement, functional safety and cybersecurity, experiences with agile and lean, standards and assessment models, recent innovations, virtual reality. \*The conference was partially held virtually due to the COVID-19 pandemic.

Everything you need to know for the Solutions Architect - Associate Exam, fully updated The AWS Certified Solutions Architect Study Guide: Associate (SAA-C01) Exam is your complete and fully updated resource to the AWS Solutions Architect - Associate certification. This invaluable Sybex study guide covers all relevant aspects of the AWS Solutions Architect job role, including mapping multi-tier architectures to AWS services, loose coupling and stateless systems, applying AWS security features, deploying and managing services, designing large scale distributed systems, and many more. Written by two AWS subject-matter experts, this self-study guide and reference provides all the tools and information necessary to master the exam, earn your certification, and gain insights into the job of an AWS Solutions Architect. Efficient and logical presentation of exam objectives allows for flexible study of topics, and powerful learning tools increase comprehension and retention of key exam elements. Practice questions, chapter reviews, and detailed examination of essential concepts fully prepare you for the AWS Solutions Architect – Associate certification. The certification is highly valued in IT and cloud computing professionals. Now in a new edition—reflecting the latest changes, additions, and updates to the AWS Solutions Architect – Associate certification exam guide—this book is your complete, one-stop resource: Access the Sybex interactive learning environment and test bank, including chapter tests, practice exams, electronic flashcards, and a searchable glossary of key terms. Learn all the components of the AWS exam and know what to expect on exam day Review challenging exam topics and focus on the areas that need improvement Expand your AWS skillset and keep pace with current cloud computing technologies The AWS Certified Solutions Architect Study Guide: Associate (SAA-C01) Exam enables you to validate your skills, increase your competitive advantage, and take the next step on your career path. Comprehensive and up-to-date content and superior study tools make this guide a must-have resource for those seeking AWS Solutions Architect – Associate certification.

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.

Updated 2017 User Guide With the Newest Tips and Tricks! Sale price. You will save 66% with this offer. Please hurry up! BONUS FOR MY READERS: Buy your paperback copy NOW and get the Kindle version FREE! Do you want to make sure you get the most out of your new Echo Dot? Step by step instruction will take you from NEWBIE to EXPERT less than 1 hour! Amazon's Echo Dot is just as smart as other members of the Echo family which not only allows you to listen to your favorite music, but also offers

a range of other functionalities. But are you afraid that it's too complicated? This book aims to teach you both basic and advanced techniques of the device, including: History, specs and technical details Setting up and running the device How to listen to your music from the radio or your smart devices Sports, news and traffic updates Using your Echo Dot as a personal assistant Learning the best -Skills- available on the Skills database Compatible devices and how to integrate them And much more... The power of your voice has never been greater. With your Dot, you can set tasks and control other devices, and with the constantly evolving Alexa at the heart of your Dot you can also order a pizza, get her to tell a great joke or look up something on the internet. The Echo Dot offers something which is unique and bold. Get your copy of Amazon Echo Dot in 1 Hour, and make the most of this amazing piece of technology. Scroll up and grab your copy now! Tags: Alexa IFFT, Amazon Dot Echo book, Amazon Dot Echo manual, Amazon dot Echo guide, book on how to program Amazon Dot Echo, Amazon Dot Echo Skills Kit, Amazon Dot Echo sample skills, Amazon Lambda, Amazon Dot Echo funny things commands, Amazon Dot, user manual, users guide, amazon Dot benefits, voice command device, amazon device, tips and tricks, home devices, alexa, alexa kit, Alexa Skills Kit, digital devices, smart device, multifunctional device, beginners guide, main functions, personal control, Amazon Echo, to-do lists, audiobooks, amazon prime, ULTIMATE Guide for Beginners, ULTIMATE Guide, Beginners Guide, Alexa Voice Service, Amazon Dot at home, Amazon Dot functions.

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 Virtual, hands-on learning labs allow you to apply your technical skills in realistic environments. So Sybex has bundled AWS labs from XtremeLabs with our popular AWS Certified Data Analytics Study Guide to give you the same experience working in these labs as you prepare for the Certified Data Analytics Exam that you would face in a real-life application. These labs in addition to the book are a proven way to prepare for the certification and for work as an AWS Data Analyst. AWS Certified Data Analytics Study Guide: Specialty (DAS-C01) Exam is intended for individuals who perform in a data analytics-focused role. This UPDATED exam validates an examinee's comprehensive understanding of using AWS services to design, build, secure, and maintain analytics solutions that provide insight from data. It assesses an examinee's ability to define AWS data analytics services and understand how they integrate with each other; and explain how AWS data analytics services fit in the data lifecycle of collection, storage, processing, and visualization. The book focuses on the following domains: • Collection • Storage and Data Management • Processing • Analysis and Visualization • Data Security This is your opportunity to take the next step in your career by expanding and validating your skills on the AWS cloud. AWS is the frontrunner in cloud computing products and services, and the AWS Certified Data Analytics Study Guide: Specialty exam will get you fully prepared through expert content, and real-world knowledge, key exam essentials, chapter review questions, and much more. Written by an AWS subject-matter expert, this study guide covers exam concepts, and provides key review on exam topics. Readers will also have access to Sybex's superior online interactive learning environment and test bank, including chapter tests, practice exams, a glossary of key terms, and electronic flashcards. And included with this version of the book, XtremeLabs virtual labs that run from your browser. The registration code is included with the book and gives you 6 months of unlimited access to XtremeLabs AWS Certified Data Analytics Labs with 3 unique lab modules based on the book.

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.

Virtual, hands-on learning labs allow you to apply your technical skills in realistic environments. So Sybex has bundled AWS labs from XtremeLabs with our popular AWS Certified SysOps Administrator Study Guide to give you the same experience working in these labs as you prepare for the Certified SysOps Administrator Exam that you would face in a real-life application. These labs in addition to the book are a proven way to prepare for the certification and for work as an AWS SysOps Administrator. This comprehensive book guides readers through the role of a SysOps Administrator and helps prepare candidates to take the updated AWS Certified SysOps Administrator—Associate (SOA-C01) Exam. The AWS Certified SysOps Administrator—Associate certification validates technical expertise in deployment, management, and operations on the AWS platform. This Study Guide not only prepares readers for the AWS exam, but it makes sure the reader is ready to perform the duties expected of SysOps Administrators. The book focuses on the skill-set required of AWS professionals by filling in the gap between test preparation and real-world preparedness. Concepts covered include: Monitoring and Reporting High Availability Deployment and Provisioning Storage and Dada Management Security and Compliance Networking Automation and Optimization And More Readers will also have one year of free access to the Sybex interactive online learning environment and test bank, providing a suite of robust study tools

including an assessment test, chapter tests, bonus practice exam, electronic flashcards, and a glossary of key terms. And included with this version of the book, XtremeLabs virtual labs that run from your browser. The registration code is included with the book and gives you 6 months unlimited access to XtremeLabs AWS Certified SysOps Administrator Labs with 6 unique lab modules based on the book.

Learn to design, build, and manage your infrastructure on the most popular of all the Cloud platforms—Amazon Web Services About This Book Learn how to leverage various Amazon Web Services (AWS) components and services to build a secure, reliable, and robust environment to host your applications on Deep dive into the core AWS service offerings with hands-on tutorials, real-world use case scenarios, and best practices A self-paced, systematic, and step-by-step guide to learning and implementing AWS in your own environment Who This Book Is For This book is for those who want to learn and leverage AWS. Although no prior experience with AWS is required, it is recommended that you have some hands-on experience of Linux, Web Services, and basic networking What You Will Learn A brief introduction to Cloud Computing and AWS accompanied by steps to sign up for your first AWS account Create and manage users, groups, and permissions using AWS Identity and Access Management services Get started with deploying and accessing EC2 instances, working with EBS Volumes and Snapshots Customize and create your very own Amazon Machine Image Design and deploy your instances on a highly secured, network isolated environment using Amazon VPC Effectively monitor your AWS environment using specialized alarms, custom monitoring metrics, and much more Explore the various benefits of Database-as-a-Service offerings and leverage them using Amazon RDS and Amazon DynamoDB Take an in-depth look at what's new with AWS, including EC2 Container Service and Elastic File System In Detail AWS is at the forefront of Cloud Computing today. Many businesses are moving away from traditional datacenters and toward AWS because of its reliability, vast service offerings, lower costs, and high rate of innovation. Because of its versatility and flexible design, AWS can be used to accomplish a variety of simple and complicated tasks such as hosting multitenant websites, running large scale parallel processing, content delivery, petabyte storage and archival, and lots more. Whether you are a seasoned sysadmin or a rookie, this book will provide you with all the necessary skills to design, deploy, and manage your applications on the AWS cloud platform. The book guides you through the core AWS services such as IAM, EC2, VPC, RDS, and S3 using a simple real world application hosting example that you can relate to. Each chapter is designed to provide you with the most information possible about a particular AWS service coupled with easy to follow hands-on steps, best practices, tips, and recommendations. By the end of the book, you will be able to create a highly secure, fault tolerant, and scalable environment for your applications to run on. Style and approach This in-depth and insightful guide is filled with easy-to-follow examples, real-world use cases, best practices, and recommendations that will help you design and leverage AWS.

How can aws help with operational complexity? What is aws lambda in aws DevOps? Have you supported Managed Security services in distributed environments - both physical and virtual including on premise and off premise implementations? What aws service(s) should you look to first? Do you want to work on new technology and have fun doing it? Defining, designing, creating, and implementing a process to solve a challenge or meet an objective is the most valuable role... In EVERY group, company, organization and department. Unless you are talking a one-time, single-use project, there should be a process. Whether that process is managed and implemented by humans, AI, or a combination of the two, it needs to be designed by someone with a complex enough perspective to ask the right questions. Someone capable of asking the right questions and step back and say, 'What are we really trying to accomplish here? And is there a different way to look at it?' This Self-Assessment empowers people to do just that - whether their title is entrepreneur, manager, consultant, (Vice-)President, CxO etc... - they are the people who rule the future. They are the person who asks the right questions to make Aws Devops investments work better. This Aws Devops All-Inclusive Self-Assessment enables You to be that person. All the tools you need to an in-depth Aws Devops Self-Assessment. Featuring 951 new and updated case-based questions, organized into seven core areas of process design, this Self-Assessment will help you identify areas in which Aws Devops improvements can be made. In using the questions you will be better able to: - diagnose Aws Devops projects, initiatives, organizations, businesses and processes using accepted diagnostic standards and practices - implement evidence-based best practice strategies aligned with overall goals - integrate recent advances in Aws Devops and process design strategies into practice according to best practice guidelines Using a Self-Assessment tool known as the Aws Devops Scorecard, you will develop a clear picture of which Aws Devops areas need attention. Your purchase includes access details to the Aws Devops self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows your organization exactly what to do next. 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 Devops 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.

Getting your models into production is the fundamental challenge of machine learning. MLOps offers a set of proven principles aimed at solving this problem in a reliable and automated way. This insightful guide takes you through what MLOps is (and how it differs from DevOps) and shows you how to put it into practice to operationalize your machine learning models. Current and aspiring machine learning engineers--or anyone familiar with data science and Python--will build a foundation in MLOps tools and methods (along with AutoML and monitoring and logging), then learn how to implement them in AWS, Microsoft Azure, and Google Cloud. The faster you deliver a machine learning system that

works, the faster you can focus on the business problems you're trying to crack. This book gives you a head start. You'll discover how to: Apply DevOps best practices to machine learning Build production machine learning systems and maintain them Monitor, instrument, load-test, and operationalize machine learning systems Choose the correct MLOps tools for a given machine learning task Run machine learning models on a variety of platforms and devices, including mobile phones and specialized hardware

Virtual, hands-on learning labs allow you to apply your technical skills in realistic environments. So Sybex has bundled AWS labs from XtremeLabs with our popular AWS Certified Solutions Architect Study Guide to give you the same experience working in these labs as you prepare for the Certified Solutions Architect Exam that you would face in a real-life application. These labs in addition to the book are a proven way to prepare for the certification and for work as an AWS Solutions Architect. This is your opportunity to take the next step in your career by expanding and validating your skills on the AWS Cloud. AWS has been the frontrunner in cloud computing products and services, and the UPDATED AWS Certified Solutions Architect Study Guide, Third Edition, for the Associate SAA-C02 Exam will get you fully prepared. This study guide covers exam concepts, and provides key review of exam topics, including: Designing resilient architectures Designing high-performing architectures Designing secure applications and architectures Designing cost-optimized architectures If you are looking to take the AWS Certified Solutions Architect Associate exam, this guide is what you need for comprehensive content and robust study tools that will help you gain the edge on exam day and throughout your career. Readers will have access to Sybex's superior online interactive learning environment and test bank, including hundreds of test questions, practice exams, electronic flashcards, and a glossary of key terms. And included with this version of the book, XtremeLabs virtual labs that run from your browser. The registration code is included with the book and gives you 6 months of unlimited access to XtremeLabs AWS Certified Solutions Architect Labs with 12 unique lab modules based on the book.

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!

Master the intricacies of Amazon Web Services and efficiently prepare for the SAA-C02 Exam with this comprehensive study guide AWS Certified Solutions Study Guide: Associate (SAA-C02) Exam, Third Edition comprehensively and efficiently prepares you for the SAA-C02 Exam. The study guide contains robust and effective study tools that will help you succeed on the exam. The guide grants you access to the regularly updated Sybex online learning environment and test bank, which contains hundreds of test questions, bonus practice exams, electronic flashcards, and a glossary of key terms. In this study guide, accomplished and experienced authors Ben Piper and David Clinton show you how to: Design resilient architectures Create high-performing architectures Craft secure applications and architectures Design cost-optimized architectures Perfect for anyone who hopes to begin a new career as an Amazon Web Services cloud professional, the study guide also belongs on the bookshelf of any existing AWS professional who wants to brush up on the fundamentals of their profession.

Develop advanced skills for working with Linux systems on-premises and in the cloud Key Features Become proficient in everyday Linux administration tasks by mastering the Linux command line and using automation Work with the Linux filesystem, packages, users, processes, and daemons Deploy Linux to the cloud with AWS, Azure, and Kubernetes Book Description Linux plays a significant role in modern data center management and provides great versatility in deploying and managing your workloads on-premises and in the cloud. This book covers the important topics you need to know about for your everyday Linux administration tasks. The book starts by helping you understand the Linux command line and how to work with files, packages, and filesystems. You'll then begin administering network services and hardening security, and learn about cloud computing, containers, and orchestration. Once you've learned how to work with the command line, you'll explore the essential Linux commands for managing users, processes, and daemons and discover how to secure your Linux environment using application security frameworks and firewall managers. As you advance through the chapters, you'll work with containers, hypervisors, virtual machines, Ansible, and Kubernetes. You'll also learn how to deploy Linux to the cloud using AWS and Azure. By the end of this Linux book, you'll be well-versed with Linux and have mastered everyday administrative tasks using workflows spanning from on-premises to the cloud. If you also find yourself adopting DevOps practices in the process, we'll consider our mission accomplished. What you will learn

Understand how Linux works and learn basic to advanced Linux administration skills Explore the most widely used commands for managing the Linux filesystem, network, security, and more Get to grips with different networking and messaging protocols Find out how Linux security works and how to configure SELinux, AppArmor, and Linux iptables Work with virtual machines and containers and understand container orchestration with Kubernetes Work with containerized workflows using Docker and Kubernetes Automate your configuration management workloads with Ansible Who this book is for If you are a Linux administrator who wants to understand the fundamentals and as well as modern concepts of Linux system administration, this book is for you. Windows System Administrators looking to extend their knowledge to the Linux OS will also benefit from this book.

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.

A book that will help you become the Mozart of Microservices KEY FEATURES ? All codes tested on the latest software versions with visual illustrations. ? Covers bleeding-edge DevOps skills to build a future-proof job profile. ? Includes expert advice, industry insights, and logical analogies to craft a technical narrative. DESCRIPTION "Cracking Containers with Docker and Kubernetes" aims to be a comprehensive guide for learning and referencing all of the essential topics related to creating, managing, and running containers with Docker and Kubernetes. Students and professionals working on Containerized web applications can use this book to lay strong conceptual foundations and sharpen their skills. The first few chapters provide an overall picture of resource virtualization in computing and demonstrate the potential of containers. The intermediate chapters get to extensive detail about Docker and Kubernetes. You will gain in-demand skills such as Docker and Kubernetes CLI, as well as how to write Dockerfiles, Compose files, and Kubernetes YAML Manifests. Topics like Networking, Storage, Access Control, and Security are discussed with real-world implications. The final chapters move Kubernetes and Containers to the cloud while expanding their ecosystem with tools for Serverless deployment, logging and monitoring, CI/CD, and more for a highly available production-ready setup. After reading this book you will be able to plan your application's migration to containers, prepare for Docker and Kubernetes Certifications, or apply for six digit DevOps jobs. WHAT YOU WILL LEARN ? Learn to create, manage and orchestrate Containers using Docker and Kubernetes. ? Practice writing Dockerfiles, Compose Files and Kubernetes YAML Manifests. ? Perform container networking, storage, authorization, security, and scaling in a production environment. ? Explore shipping, CI/CD, Service Mesh, Logging & Monitoring in detail. ? Get the Cracking Containers with Docker and Kubernetes know-how of hosted and Serverless Kubernetes on Cloud. WHO THIS BOOK IS FOR This book is intended for students, enthusiasts, and professionals in Software Development, DevOps, and Cloud Computing who want to put their career progress on a pedestal by reducing the operational and scaling costs of their web applications and optimizing their IT infrastructure utilization. TABLE OF CONTENTS 1. Prologue to the Containers 2. Hello Containers! 3. Introduction to Docker 4. Writing Dockerfiles 5. Gearing up the toolbox! 6. Connectivity and Storage 7. Multi Container Applications with Docker Compose 8. Container Orchestration with Docker Swarm 9. Introduction to Kubernetes 10. Workload Orchestration with Kubernetes 11. Networking and Storage with Kubernetes 12. Advanced Orchestration with Kubernetes 13. Hosted Kubernetes on Cloud 14. Containers in Production with GKE 15. Serverless Containers 16. The Checkpoint

Work through exciting recipes to administer your AWS cloud Key Features Build secure environments using AWS components and services Explore core AWS features with real-world applications and best practices Design and build Lambda functions using real-world examples Book Description With this Learning Path, you'll explore techniques to easily manage applications on the AWS cloud. You'll begin with an introduction to serverless computing, its advantages, and the fundamentals of AWS. The following chapters will guide you on how to manage multiple accounts by setting up consolidated billing, enhancing your application delivery skills, with the latest AWS services such as CodeCommit, CodeDeploy, and CodePipeline to provide continuous delivery and deployment, while also securing and monitoring your environment's workflow. It'll also add to your understanding of the services AWS Lambda provides to developers. To refine your skills further, it demonstrates how to design, write, test, monitor, and troubleshoot Lambda functions. By the end of this Learning Path, you'll be able to create a highly secure, fault-tolerant, and scalable environment for your applications. This Learning Path includes content from the following Packt products: AWS Administration: The Definitive Guide, Second Edition by Yohan Wadia AWS Administration Cookbook by Rowan Udell, Lucas Chan Mastering AWS Lambda by Yohan Wadia, Udita Gupta What you will learn Explore the benefits of serverless computing and applications

Deploy apps with AWS Elastic Beanstalk and Amazon Elastic File System Secure environments with AWS CloudTrail, AWSConfig, and AWS Shield Run big data analytics with Amazon EMR and Amazon Redshift Back up and safeguard data using AWS Data Pipeline Create monitoring and alerting dashboards using CloudWatch Effectively monitor and troubleshoot serverless applications with AWS Design serverless apps via AWS Lambda, DynamoDB, and API Gateway Who this book is for This Learning Path is specifically designed for IT system and network administrators, AWS architects, and DevOps engineers who want to effectively implement AWS in their organization and easily manage daily activities. Familiarity with Linux, web services, cloud computing platforms, virtualization, networking, and other administration-related tasks will assist in understanding the concepts in the book. Prior hands-on experience with AWS core services such as EC2, IAM, S3, and programming languages, such as Node.js, Java, and C#, will also prove beneficial.

Work through exciting recipes to administer your AWS cloud Key Features Build secure environments using AWS components and services Explore core AWS features with real-world applications and best practices Design and build Lambda functions using real-world examples Book Description With this Learning Path, you'll explore techniques to easily manage applications on the AWS cloud. You'll begin with an introduction to serverless computing, its advantages, and the fundamentals of AWS. The following chapters will guide you on how to manage multiple accounts by setting up consolidated billing, enhancing your application delivery skills, with the latest AWS services such as CodeCommit, CodeDeploy, and CodePipeline to provide continuous delivery and deployment, while also securing and monitoring your environment's workflow. It'll also add to your understanding of the services AWS Lambda provides to developers. To refine your skills further, it demonstrates how to design, write, test, monitor, and troubleshoot Lambda functions. By the end of this Learning Path, you'll be able to create a highly secure, fault-tolerant, and scalable environment for your applications. This Learning Path includes content from the following Packt products: AWS Administration: The Definitive Guide, Second Edition by Yohan Wadia AWS Administration Cookbook by Rowan Udell, Lucas Chan Mastering AWS Lambda by Yohan Wadia, Udita Gupta What you will learn Explore the benefits of serverless computing and applications Deploy apps with AWS Elastic Beanstalk and Amazon Elastic File System Secure environments with AWS CloudTrail, AWSConfig, and AWS Shield Run big data analytics with Amazon EMR and Amazon Redshift Back up and safeguard data using AWS Data Pipeline Create monitoring and alerting dashboards using CloudWatch Effectively monitor and troubleshoot serverless applications with AWS Design serverless apps via AWS Lambda, DynamoDB, and API Gateway Who this book is for This Learning Path is specifically designed for IT system and network administrators, AWS architects, and DevOps engineers who want to effectively implement AWS in their organization and easily manage daily activities. Familiarity with Linux, web services, cloud computing platforms, virtualization, networking, and other administration-related tasks will assist in understanding the concepts in the book. Prior hands-on experience with AWS core services such as EC2, IAM, S3, and programming languages, such as Node.js, Java, and C#, will also prove beneficial.

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 "orchestration"; 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).

Everything you need to get running with IaaS for Amazon Web Services Modern businesses rely on Infrastructure-as-a-Service (IaaS)—a setup in which someone else foots the bill to create application environments—and developers are expected to know how to write both platform-specific and IaaS-supported applications. If you're a developer who writes desktop and web applications but have little-to-no experience with cloud development, this book is an essential tool in getting started in the IaaS environment with Amazon Web Services. In Amazon Web Services For Developers For Dummies, you'll quickly and easily get up to speed on which language or platform will work best to meet a specific need, how to work with management consoles, ways you'll interact with services at the command line, how to create applications with the AWS API, and so much more. Assess development options to produce the kind of result that's actually needed Use the simplest approach to accomplish any given task Automate tasks using something as simple as the batch processing features offered by most platforms Create example applications using JavaScript, Python, and R Discover how to use the XML files that appear in the management console to fine tune your configuration Making sense of Amazon Web Services doesn't have to be as difficult as it seems—and this book shows you how.

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 Certifications are industry-recognized credentials that validate your technical cloud skills and expertise while assisting in your career growth. These are one of the most valuable IT certifications right now since AWS has established an overwhelming lead in the public cloud market. Even with the presence of several tough competitors such as Microsoft Azure, Google Cloud Engine, and Rackspace, AWS is by far the dominant public cloud platform today, with an astounding collection of proprietary services that continues to grow. The AWS Certified Cloud Practitioner (CLF-C01) examination is intended for individuals who have the knowledge and skills necessary to effectively demonstrate an overall understanding of the AWS Cloud, independent of specific technical roles addressed by other AWS certifications (e.g., Solutions Architect - Associate, Developer - Associate, or SysOps Administrator - Associate). The certification will provide you a high level overview on what AWS Cloud is all about. The exam covers four domains, including AWS core services, cloud concepts, security aspect, pricing and support services. AWS Certified Cloud Practitioner is a new entry-level certification and enables individuals to validate their knowledge of the AWS Cloud with an industry-recognized credential. This certification exam validates your ability to define and identify:

- AWS Cloud and its basic global infrastructure
- AWS Cloud architectural principles
- AWS Cloud value proposition
- Key services on the AWS platform and their common use cases (example, compute and analytics)
- Basic security and compliance aspects of the AWS platform and the shared security model
- Billing, account management, and pricing models
- Sources of documentation or technical assistance (example, whitepapers or support tickets)
- Basic and core characteristics of deploying and operating in the AWS Cloud

Get the definitive guide on Gatsby, the JavaScript framework for building blazing fast websites and applications. Used by Nike, Costa Coffee, and other companies worldwide, Gatsby is emerging as one of the key technologies in the Jamstack (JavaScript, APIs, and markup) ecosystem. With this comprehensive guide, you'll learn how to architect, build, and deploy Gatsby sites independently or with CMSs, commerce systems, and other data sources. Author Preston So begins by showing you how to set up a Gatsby site from scratch. From there, you'll learn ways to use Gatsby's declarative rendering and GraphQL API, build complex offline-enabled sites, and continuously deploy Gatsby sites on a variety of platforms, including Gatsby Cloud. Discover how Gatsby integrates with many data sources and plug-ins Set up, configure, and architect Gatsby sites using Gatsby's CLI, React, JSX, and GraphQL with high performance out of the box Build an independent Gatsby site based on Markdown and data- and content-driven Gatsby sites that integrate with CMSs and commerce platforms Deploy Gatsby sites with full CI/CD and test coverage on a variety of platforms, including Netlify, Vercel, and Gatsby Cloud

Build scalable, efficient, and highly available web apps using AWS About This Book Get an in-depth understanding of the serverless model Build a complete serverless web application end to end Learn how to use the Serverless Framework to improve your productivity Who This Book Is For If you're looking to learn more about scalable and cost-efficient architectures, this book is for you. Basic knowledge of Node.js skills or familiarity with cloud services is required. For other topics, we cover the basics. What You Will Learn Get a grasp of the pros and cons of going serverless and its use cases Discover how you can use the building blocks of AWS to your advantage Set up the environment and create a basic app with the Serverless Framework Host static files on S3 and CloudFront with HTTPS support Build a sample application with a frontend using React as an SPA Develop the Node.js backend to handle requests and connect to a SimpleDB database Secure your applications with authentication and authorization Implement the publish-subscribe pattern to handle notifications in a serverless application Create tests, define the workflow for deployment, and monitor your app In Detail This book will equip you with the knowledge needed to build your own serverless apps by showing you how to set up different services while making your application scalable, highly available, and efficient. We begin by giving you an idea of what it means to go serverless, exploring the pros and cons of the serverless model and its use cases. Next, you will be introduced to the AWS services that will be used throughout the book, how to estimate costs, and how to set up and use the Serverless Framework. From here, you will start to build an entire serverless project of an online store, beginning with a React SPA frontend hosted on AWS followed by a serverless backend with API Gateway and Lambda functions. You will also learn to access data from a SimpleDB database, secure the application with authentication and authorization, and implement serverless notifications for browsers using AWS IoT. This book will describe how to monitor the performance, efficiency, and errors of your apps and conclude by teaching you how to test and deploy your applications. Style and approach This book takes a step-by-step approach on how to use the Serverless Framework and AWS services to build Serverless Applications. It will give you a hands-on feeling, allowing you to practice while reading. It provides a brief introduction of concepts while keeping the focus on the practical skills required to develop applications.

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. This authoritative text/reference describes the state of the art of fog computing, presenting insights from an international selection of renowned experts. A particular focus is provided on development approaches, architectural mechanisms, and measurement metrics for building smart adaptable environments. The coverage also includes important related topics such as device connectivity, security and interoperability, and communication methods. Topics and features: introduces the core concepts and principles of fog computing, and reviews the latest research and best practice relating to fog/edge environments; discusses the vision for an Internet of Things (IoT) in terms of fog computing and other related distributed computing paradigms, such as cloud computing; presents a survey of the key issues and broader aspects of the fog paradigm, as well as the factors that affect adoption of fog computing; examines frameworks and methodologies for fog-based architecture design, improving performance, and measuring quality of experience; proposes tools and methodologies for analyzing large amounts of sensor data from smart city initiatives; describes approaches for designing robust services, management of data-intensive applications, context-aware data analysis, and vehicular networking; identifies potential future research directions and technological innovations in relation to distributed computing environments such as the IoT. This enlightening volume offers essential perspectives for researchers of distributed computing and computer networking, as well as for advanced undergraduate and graduate students pursuing interests in this area. Professional engineers seeking to enhance security and connectivity in their IoT systems will also find this work to be a valuable reference.

Validate your AWS skills. This is your opportunity to take the next step in your career by expanding and validating your skills on the AWS cloud. AWS has been the frontrunner in cloud computing products and services, and the AWS Certified Solutions Architect Official Study Guide for the Associate exam will get you fully prepared through expert content, and real-world knowledge, key exam essentials, chapter review questions, access to Sybex's interactive online learning environment, and much more. This official study guide, written by AWS experts, covers exam concepts, and provides key review on exam topics, including: Mapping Multi-Tier Architectures to AWS Services, such as web/app servers, firewalls, caches and load balancers Understanding managed RDBMS through AWS RDS (MySQL, Oracle, SQL Server, Postgres, Aurora) Understanding Loose Coupling and Stateless Systems Comparing Different Consistency Models in AWS Services Understanding how AWS CloudFront can make your application more cost efficient, faster and secure Implementing Route tables, Access Control Lists, Firewalls, NAT, and DNS Applying AWS Security Features along with traditional Information and Application Security Using Compute, Networking, Storage, and Database AWS services Architecting Large Scale Distributed Systems Understanding of Elasticity and Scalability Concepts Understanding of Network Technologies Relating to AWS Deploying and Managing Services with tools such as CloudFormation, OpsWorks and Elastic Beanstalk. Learn from the AWS subject-matter experts, review with proven study tools, and apply real-world scenarios. If you are looking to take the AWS Certified Solutions Architect Associate exam, this guide is what you need for comprehensive content and robust study tools that will help you gain the edge on exam day and throughout your career.

The AWS Certified Solutions Architect Professional exam validates advanced technical skills and experience in designing distributed applications and systems on the AWS platform. Example concepts you should understand for this exam include: - Designing and deploying dynamically scalable, highly available, fault-tolerant, and reliable applications on AWS - Selecting appropriate AWS services to design and deploy an application based on given requirements - Migrating complex, multi-tier applications on AWS - Designing and deploying enterprise-wide scalable operations on AWS - Implementing cost-control strategies - Recommended AWS Knowledge This book contains Free Resources. Preview the book & see what's inside.

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.

As you move data to the cloud, you need to consider a comprehensive approach to data governance, along with well-defined and agreed-upon policies to ensure your organization meets compliance requirements. Data governance incorporates the ways people, processes, and technology work together to ensure data is trustworthy and can be used effectively. This practical guide shows you how to effectively implement and scale data governance throughout your organization. Chief information, data, and security officers and their teams will learn strategy and tooling to support democratizing data and unlocking its value while enforcing security, privacy, and other governance standards. Through good data governance, you can inspire customer trust, enable your organization to identify business efficiencies, generate more competitive offerings, and improve customer experience. This book shows you how. You'll learn: Data governance strategies addressing people, processes, and tools Benefits and challenges of a cloud-based data governance approach How data governance is conducted from ingest to preparation and use How to handle the ongoing improvement of data quality Challenges and techniques in governing streaming data Data protection for authentication, security, backup, and monitoring How to build a data culture in your organization

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.

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 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 ForIf 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 environmentsIn DetailAWS 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 approachThis 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 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. Severless micro services are relatively new term in the technological world. Severless 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.

AWS LambdaThe Complete Guide to Getting Started with Serverless Microservices - Plus Little-Known Tips and Tricks! 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

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