

Mastering Aws Lambda E S

Adam Jones

Mastering AWS Lambda Yohan Wadia, Udit Gupta, 2017-08-11 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.

Mastering Serverless: A Deep Dive into AWS Lambda Peter Jones,2024-10-12 Mastering Serverless: A Deep Dive into AWS Lambda offers an exhaustive exploration of the groundbreaking realm of serverless computing, emphasizing AWS Lambda, Amazon Web Services' premier serverless computing service. As serverless architecture emerges as a pivotal trend in software development, this book stands as an essential resource for software developers, architects, and IT professionals eager to leverage the power of serverless technology. Beginning with the setup of your development environment and continuing through the design of serverless applications, performance optimization, and the implementation of advanced architectural patterns, this guide addresses every critical facet of serverless computing. Each chapter is meticulously structured to deliver comprehensive knowledge, practical examples, and best practices, enabling readers to craft efficient, secure, and scalable serverless applications. Whether you are a novice keen to delve into serverless computing or an experienced developer seeking to refine your skills in AWS Lambda, this book provides actionable insights and clear explanations to help you navigate the intricacies of serverless architectures. Unlock the potential of serverless computing, reduce operational costs, and accelerate your application development with Mastering Serverless: A Deep Dive into AWS Lambda. Immerse yourself in the future of computing and revolutionize the way you build applications in the cloud.

Mastering AWS Edwin Cano,2024-11-28 The rapid advancements in technology have shifted the landscape of how businesses operate, innovate, and grow. At the center of this transformation is cloud computing—a paradigm that eliminates the constraints of traditional infrastructure, enabling scalability, agility, and cost-efficiency. Amazon Web Services (AWS) has emerged as the leading cloud provider, offering a comprehensive suite of services that power startups, enterprises, and governments worldwide. This book, Mastering AWS, serves as a gateway to understanding and utilizing AWS to its full potential. Whether you're a professional aiming to enhance your technical skills, a business leader seeking to drive innovation, or a student exploring the possibilities of cloud computing, this book is crafted to guide you step-by-step through the AWS ecosystem. Why AWS? AWS is a pioneer in the cloud computing space, providing an unmatched array of services for compute, storage, databases, machine learning, IoT, and much more. Its global infrastructure ensures reliability, while its pay-as-you-go pricing model makes it accessible to organizations of all sizes. AWS has become synonymous with innovation, enabling companies to experiment, iterate, and succeed faster than ever before. What Will You Learn? This book covers a wide range of topics, including: The fundamental concepts of cloud computing and AWS architecture. Setting up and managing your AWS account securely and efficiently. Deploying scalable applications using services like EC2, Lambda, and

Elastic Beanstalk. Harnessing data with storage solutions such as S3, RDS, and DynamoDB. Advanced topics like AI/ML with SageMaker, IoT solutions, and DevOps practices. Cost management strategies and real-world use cases to maximize the value of AWS. Who Is This Book For? This book is designed for readers at all skill levels: Beginners will appreciate the step-by-step explanations and foundational concepts. Intermediate users will gain insights into best practices, cost optimization, and advanced features. Experts will find value in the comprehensive coverage of AWS services and practical examples. How to Use This Book The chapters are structured to provide a logical progression from basics to advanced topics. Each chapter includes practical examples, hands-on exercises, and tips to help you apply the concepts effectively. You can read the book sequentially or jump to specific sections based on your interests and needs. A Journey to Mastery Mastering AWS is not just about learning how to use its services; it's about understanding how to leverage the cloud to solve challenges, innovate faster, and achieve your goals. By the end of this book, you'll have the knowledge and confidence to harness AWS for any project or initiative, whether you're launching a startup, optimizing enterprise operations, or exploring cutting-edge technologies. Let's begin this exciting journey into the world of AWS, where the only limit is your imagination.

Mastering AWS Serverless Miguel A. Calles, 2024-04-29 Master the art of designing and creating serverless architectures and applications **KEY FEATURES** ● Learn to create serverless applications that leverage serverless functions, databases, data stores, and application programming interfaces. ● Learn the serverless concepts needed to provide serverless solutions for websites, mobile apps, APIs, backends, notifications, Artificial Intelligence, and Machine Learning. ● Create serverless, event-driven architectures and designs through hands-on exercises throughout the book. **DESCRIPTION** Serverless computing is relatively new compared to server-based designs. Amazon Web Services launched its serverless computing offering by introducing AWS Lambda. Lambda has introduced a revolution in cloud computing, where servers could be excluded from architectures, and events could be used to trigger other resources. The AWS serverless services have allowed developers, startups, and large enterprises to focus more on developing and creating features and spend less time managing and securing servers. It covers key concepts like serverless architecture and AWS services. You will learn to create event-driven apps, launch websites, and build APIs with hands-on exercises. The book will explore storage options and data processing, including serverless Machine Learning. Discover best practices for architecture, security, and cost optimization. The book will cover advanced topics like AWS SAM and Lambda layers for complex workflows. Finally, get guidance on creating new serverless apps and migrating existing ones. The knowledge gained from this book will help you create a serverless website, application programming interface, and backend. In addition, the information covered in the book will help you process and analyze data using a serverless design. **WHAT YOU WILL LEARN** ● Creating a serverless website using Amazon S3 and CloudFront. ● Creating a serverless API using Amazon API Gateway. ● Create serverless functions with AWS Lambda. ● Save data using Amazon DynamoDB and Amazon S3. ● Perform authentication and authorization with Amazon

Cognito. WHO THIS BOOK IS FOR The book targets professionals and students who want to gain experience in software development, cloud computing, web development, data processing, or Amazon Web Services. It is ideal for cloud architects, developers, and backend engineers seeking to leverage serverless services for scalable and cost-effective applications.

TABLE OF CONTENTS 1. Introduction to AWS Serverless 2. Overview of Serverless Applications 3. Designing Serverless Architectures 4. Launching a Website 5. Creating an API 6. Saving and Using Data 7. Adding Authentication and Authorization 8. Processing Data using Automation and Machine Learning 9. Sending Notifications 10. Additional Automation Topics 11. Architecture Best Practices 12. Next Steps

AWS Lambda Quick Start Guide Markus Klems, 2018-06-29 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.

Mastering AWS Cybellium Ltd, 2023-09-06 Cybellium Ltd is dedicated to empowering individuals and organizations with the knowledge and skills they need to navigate the ever-evolving computer science landscape securely and learn only the latest information available on any subject in the category of computer science including: - Information Technology (IT) - Cyber Security - Information Security - Big Data - Artificial Intelligence (AI) - Engineering - Robotics - Standards and compliance Our mission is to be at the forefront of computer science education, offering a wide and comprehensive range of resources, including books, courses, classes and training programs, tailored to meet the diverse needs of any subject in computer science. Visit <https://www.cybellium.com> for more books.

Advanced AWS Lambda: Comprehensive Guide to Serverless Computing Adam Jones, 2024-12-07 Advanced AWS Lambda: Comprehensive Guide to Serverless Computing is an essential resource for developers, system administrators, and IT professionals eager to leverage the full power of serverless computing through AWS Lambda. Whether you're a newcomer to AWS Lambda or looking to refine your expertise in serverless architecture, this book provides an exhaustive examination of AWS Lambda's potential, best practices, and sophisticated functionalities. Explore in-depth the foundational concepts of AWS Lambda, including triggers, event sources, security protocols, performance enhancement strategies, and cost management techniques. Gain insights into designing, deploying, and maintaining efficient, secure, and scalable serverless applications with practical examples, thorough explanations, and step-by-step guidance. The book delves into topics ranging from setting up your initial function to intricacies like integrating AWS Lambda with other AWS services, troubleshooting common problems, and architecting complex serverless solutions. With Advanced AWS Lambda, you'll unlock the vast possibilities of serverless computing, minimize operational overhead, and construct applications that are scalable, reliable, and cost-effective. Embark on your journey to mastering AWS Lambda and revolutionize the way you develop and deploy applications in the cloud.

Mastering AWS CloudFormation Karen Tovmasyan, 2020-05-08 Build scalable and production-ready infrastructure in Amazon Web Services with CloudFormation Key Features Leverage AWS CloudFormation templates to manage your entire infrastructure Get up and running with writing your infrastructure as code and automating your environment Simplify infrastructure management and increase productivity with AWS CloudFormation Book Description DevOps and the cloud revolution have forced software engineers and operations teams to rethink how to manage infrastructures. With this AWS book, you'll understand how you can use Infrastructure as Code (IaC) to simplify IT operations and manage the modern cloud infrastructure effectively with AWS CloudFormation. This comprehensive guide will help you explore AWS CloudFormation from template structures through to developing complex and reusable infrastructure stacks. You'll then delve into validating templates, deploying stacks, and handling deployment failures. The book will also show you how to leverage AWS CodeBuild and CodePipeline to automate resource delivery and apply continuous integration and continuous delivery (CI/CD) practices to the stack. As you advance, you'll learn how to generate templates on the fly using macros and create resources outside AWS with custom resources. Finally, you'll improve the way you manage the modern cloud in AWS by extending CloudFormation using AWS serverless application model (SAM) and AWS cloud development kit (CDK). By the end of this book, you'll have mastered all the major AWS CloudFormation concepts and be able to simplify infrastructure management. What you will learn Understand modern approaches to IaC Develop universal and reusable CloudFormation templates Discover ways to apply continuous delivery with CloudFormation Implement IaC best practices for the AWS Cloud Provision massive applications across multiple regions and accounts Automate template generation and software

provisioning for AWS Extend CloudFormation with custom resources and template macros Who this book is for If you are a developer who wants to learn how to write templates, a DevOps engineer interested in deployment and orchestration, or a solutions architect looking to understand the benefits of managing infrastructure with ease, this book is for you. Prior understanding of the AWS Cloud is necessary.

Mastering AWS Security Albert Anthony, 2017-10-26 In depth informative guide to implement and use AWS security services effectively. About This Book Learn to secure your network, infrastructure, data and applications in AWS cloud Log, monitor and audit your AWS resources for continuous security and continuous compliance in AWS cloud Use AWS managed security services to automate security. Focus on increasing your business rather than being diverged onto security risks and issues with AWS security. Delve deep into various aspects such as the security model, compliance, access management and much more to build and maintain a secure environment. Who This Book Is For This book is for all IT professionals, system administrators and security analysts, solution architects and Chief Information Security Officers who are responsible for securing workloads in AWS for their organizations. It is helpful for all Solutions Architects who want to design and implement secure architecture on AWS by the following security by design principle. This book is helpful for personnel in Auditors and Project Management role to understand how they can audit AWS workloads and how they can manage security in AWS respectively. If you are learning AWS or championing AWS adoption in your organization, you should read this book to build security in all your workloads. You will benefit from knowing about security footprint of all major AWS services for multiple domains, use cases, and scenarios. What You Will Learn Learn about AWS Identity Management and Access control Gain knowledge to create and secure your private network in AWS Understand and secure your infrastructure in AWS Understand monitoring, logging and auditing in AWS Ensure Data Security in AWS Learn to secure your applications in AWS Explore AWS Security best practices In Detail Mastering AWS Security starts with a deep dive into the fundamentals of the shared security responsibility model. This book tells you how you can enable continuous security, continuous auditing, and continuous compliance by automating your security in AWS with the tools, services, and features it provides. Moving on, you will learn about access control in AWS for all resources. You will also learn about the security of your network, servers, data and applications in the AWS cloud using native AWS security services. By the end of this book, you will understand the complete AWS Security landscape, covering all aspects of end - to -end software and hardware security along with logging, auditing, and compliance of your entire IT environment in the AWS cloud. Lastly, the book will wrap up with AWS best practices for security. Style and approach The book will take a practical approach delving into different aspects of AWS security to help you become a master of it. It will focus on using native AWS security features and managed AWS services to help you achieve continuous security and continuous compliance.

Mastering AWS Security Laurent Mathieu, 2024-04-26 Explore the depths of AWS security and learn how to design,

implement, and maintain a secure cloud environment using state-of-the-art AWS technology

Key Features Expand your knowledge with new concepts and technologies tailored for various use cases in this second edition Design and deploy secure AWS environments based on modern architectural principles Elevate your AWS security expertise with advanced techniques for automation and continuous improvement Purchase of the print or Kindle book includes a free PDF eBook

Book Description If you're trying to navigate the complex world of AWS security and fortify your organizational cloud environment, then this book is for you. Written by an accomplished cybersecurity and AWS cloud consultant, *Mastering AWS Security* will help you understand and master the complexities of AWS security. This book offers an in-depth and practical exploration of AWS security concepts, features, and services, focusing on how they apply to modern cloud-based application environments. As you progress, you'll gain a thorough introduction to the art of security automation and DevSecOps. You'll learn how to automate security tasks, integrate security into your development process, and maintain a high level of security as your applications evolve and scale. Emphasizing continuous monitoring and improvement, this book will teach you how to set up monitoring systems, interpret security data, and make informed decisions to enhance your security over time. Through real-world case studies, you'll learn how to tackle the challenges and find solutions for securing AWS environments. By the end of this book, you'll confidently secure your AWS environments, and stay up to date with the latest security trends and updates in the AWS ecosystem.

What you will learn Discover AWS IAM, access control models, and the principle of least privilege Get to grips with VPC network security strategies and tools to protect and isolate your critical assets Leverage and orchestrate AWS security services tailored to your environment Implement encryption and data protection best practices in key AWS services Explore best practices to secure microservices and serverless architectures on AWS Implement security strategies for multi-tenant architectures Master the art of security automation and DevSecOps tooling

Who this book is for This comprehensive guide is for cloud architects, engineers, DevOps professionals, and AWS enthusiasts. Cybersecurity professionals who want to learn AWS security to protect their applications, data, and infrastructure from threats, ensure compliance with regulations, and build trust with customers, will also find this book useful.

Mastering Event-Driven Microservices in AWS Lefteris Karageorgiou, 2024-08-23

TAGLINE Unleash the Power of AWS Serverless Services for Scalable, Resilient, and Reactive Architectures

KEY FEATURES

- Master the art of leveraging AWS serverless services to build robust event-driven systems.
- Gain expertise in implementing advanced event-driven patterns in AWS.
- Develop advanced skills in production-ready practices for testing, monitoring, and optimizing event-driven microservices in AWS.

DESCRIPTION In the book *Mastering Event-Driven Microservices in AWS*, author Lefteris Karageorgiou takes you on a comprehensive journey through the world of event-driven architectures and microservices. This practical guide equips you with the knowledge and skills to design, build, and operate resilient, scalable, and fault-tolerant systems using AWS serverless services. Through concrete examples and code samples, you'll learn how to construct real-

world event-driven microservices architectures, such as point-to-point messaging, pub/sub messaging, event streaming, and advanced architectures like event sourcing, CQRS, circuit breakers, and sagas. Leveraging AWS services like AWS Lambda, Amazon API Gateway, Amazon EventBridge, Amazon SQS, Amazon SNS, Amazon SQS, AWS Step Functions, and Amazon Kinesis, you'll gain hands-on experience in building robust event-driven applications. The book goes beyond just theory and delves into production-ready practices for testing, monitoring, troubleshooting, and optimizing your event-driven microservices. By the end of this comprehensive book, you'll have the confidence and expertise to design, build, and run mission-critical event-driven microservices in AWS, empowering you to tackle complex distributed systems challenges with ease. Whether you're an experienced developer or a team looking to stay ahead of the curve, *Mastering Event-Driven Microservices in AWS* is an essential resource that will equip you with the tools and knowledge necessary to harness the power of event-driven microservices in the AWS ecosystem.

WHAT WILL YOU LEARN

- Design and implement event-driven microservices on AWS seamlessly.
- Leverage AWS serverless services more effectively.
- Build robust, scalable, and fault-tolerant event-driven applications on AWS.
- Implement advanced event-driven patterns on AWS.
- Monitor and troubleshoot event-driven microservices on AWS effectively.
- Secure and optimize event-driven microservices for production workloads on AWS.

WHO IS THIS BOOK FOR? This book is an invaluable resource for developers, architects, and engineers who want to build scalable and efficient applications on the AWS platform using event-driven microservices architecture. It is tailored for professionals with prior experience in cloud computing and microservices development, providing them with the necessary knowledge and skills to leverage AWS serverless services effectively for designing and implementing event-driven microservices.

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6. Event Streaming with Amazon Kinesis
7. Testing Event-Driven Systems
8. Monitoring and Troubleshooting
9. Optimizations and Best Practices for Production
10. Real-World Use Cases on AWS

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AWS Certified Database - Specialty (DBS-C01) Certification Guide Kate Gawron, 2022-05-13 Pass the AWS Certified Database- Specialty Certification exam with the help of practice tests

Key Features

- Understand different AWS database technologies and when to use them
- Master the management and administration of AWS databases using both the console and command line
- Complete, up-to-date coverage of DBS-C01 exam objectives to pass it on the first attempt

Book Description The AWS Certified Database - Specialty certification is one of the most challenging AWS certifications. It validates your comprehensive understanding of databases, including the concepts of design, migration, deployment, access, maintenance, automation, monitoring, security, and troubleshooting. With this guide, you'll understand how to use various AWS databases, such as Aurora Serverless and Global Database, and even services such as Redshift and Neptune. You'll start

with an introduction to the AWS databases, and then delve into workload-specific database design. As you advance through the chapters, you'll learn about migrating and deploying the databases, along with database security techniques such as encryption, auditing, and access controls. This AWS book will also cover monitoring, troubleshooting, and disaster recovery techniques, before testing all the knowledge you've gained throughout the book with the help of mock tests. By the end of this book, you'll have covered everything you need to pass the DBS-C01 AWS certification exam and have a handy, on-the-job desk reference guide. What you will learn

- Become familiar with the AWS Certified Database - Specialty exam format
- Explore AWS database services and key terminology
- Work with the AWS console and command line used for managing the databases
- Test and refine performance metrics to make key decisions and reduce cost
- Understand how to handle security risks and make decisions about database infrastructure and deployment
- Enhance your understanding of the topics you've learned using real-world hands-on examples
- Identify and resolve common RDS, Aurora, and DynamoDB issues

Who this book is for This AWS certification book is for database administrators and IT professionals who perform complex big data analysis as well as students looking to get AWS Database Specialty certified. A solid understanding of cloud computing, specifically AWS services, is a must. Knowledge of basic administration tasks such as logging in and running SQL queries will be helpful.

Mastering Serverless Computing with AWS Lambda Eidivandi Omid, 2024-11-14 TAGLINE Design and Build Scalable Solutions on the AWS Serverless Ecosystem. KEY FEATURES ● In-depth exploration of AWS Lambda Integration within serverless architecture. ● Expert tips and guidance on choosing compute services for peak performance. ● Practical Techniques for achieving observability, governance, and reliability. DESCRIPTION AWS Lambda, a key component of AWS Serverless Computing, has transformed application development by allowing developers to focus on code rather than infrastructure. [Mastering Serverless Computing with AWS Lambda] is a must-have guide for leveraging AWS Lambda to build efficient, cost-effective serverless cloud solutions. This book guides readers from serverless basics to advanced deployment, offering practical approaches to building resilient, scalable applications. Beginning with an introduction to serverless computing, the book explores AWS Lambda fundamentals, covering invocation models, service integrations, and event-driven design. Practical insights into hyper-scaling, instrumentation, and designing for failure empower readers to create robust, production-ready solutions. This guide covers core concepts of serverless computing, including optimizations, automation, and strategies to navigate potential pitfalls. It emphasizes AWS Lambda's resiliency, scalability, and disaster recovery, using real-world examples to showcase best practices. Each chapter offers in-depth examples, edge computing scenarios, and proven patterns to help readers develop optimized serverless architectures. By the end, readers will gain a comprehensive understanding of AWS Lambda, equipping them to design sophisticated systems that meet modern cloud demands and drive innovation within their organizations. WHAT WILL YOU LEARN ● Gain a solid understanding of

serverless architecture and how AWS Lambda fits into the serverless ecosystem. ● Learn the core components of AWS Lambda, from function creation and triggers to its role in cloud-native development. ● Discover techniques for leveraging Lambda's automatic scaling to handle fluctuating workloads while optimizing costs. ● Learn best practices for creating resilient Lambda functions designed to withstand failures and ensure high availability. ● Apply industry-tested patterns, architectural best practices, and real-world scenarios to build robust, scalable, and cost-effective serverless applications with AWS Lambda. WHO IS THIS BOOK FOR? This book is for software developers, architects, and leaders looking to enhance their skills in the AWS serverless ecosystem and streamline distributed communication in their designs. Readers should have a solid understanding of distributed systems, microservices, inter-service communication patterns, and the pillars of high availability and reliability. TABLE OF CONTENTS 1. Introduction to Serverless Computing 2. AWS Lambda Basics 3. Invocation Models and Service Integrations 4. Event-Driven Design with Lambda 5. Hyper-Scaling with Lambda 6. Instrumenting Lambda 7. Resiliency and Design for Failure 8. Lambda-Less Design 9. Edge Computing 10. Patterns and Practices Index

Learn AWS Serverless Computing Scott Patterson, 2019-12-24 Build, deploy, test, and run cloud-native serverless applications using AWS Lambda and other popular AWS services Key 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.

Learning AWS Aurobindo Sarkar,Amit Shah,2018-02-01 Discover techniques and tools for building serverless applications with AWS Key Features Get well-versed with building and deploying serverless APIs with microservices Learn to build distributed applications and microservices with AWS Step Functions A step-by-step guide that will get you up and running with building and managing applications on the AWS platform Book Description Amazon Web Services (AWS) is the most popular and widely-used cloud platform. Administering and deploying application on AWS makes the applications resilient and robust. The main focus of the book is to cover the basic concepts of cloud-based development followed by running solutions in AWS Cloud, which will help the solutions run at scale. This book not only guides you through the trade-offs and ideas behind efficient cloud applications, but is a comprehensive guide to getting the most out of AWS. In the first section, you will begin by looking at the key concepts of AWS, setting up your AWS account, and operating it. This guide also covers cloud service models, which will help you build highly scalable and secure applications on the AWS platform. We will then dive deep into concepts of cloud computing with S3 storage, RDS and EC2. Next, this book will walk you through VPC, building realtime serverless environments, and deploying serverless APIs with microservices. Finally, this book will teach you to monitor your applications, and automate your infrastructure and deploy with CloudFormation. By the end of this book, you will be well-versed with the various services that AWS provides and will be able to leverage AWS infrastructure to accelerate the development process. What you will learn Set up your AWS account and get started with the basic concepts of AWS Learn about AWS terminology and identity access management Acquaint yourself with important elements of the cloud with features such as computing, ELB, and VPC Back up your database and ensure high availability by having an understanding of database-related services in the AWS cloud Integrate AWS services with your application to meet and exceed non-functional requirements Create and automate infrastructure to design cost-effective, highly available applications Who this book is for If you are an I.T. professional or a system architect who wants to improve infrastructure using AWS, then this book is for you. It is also for programmers who are new to AWS and want to build highly efficient, scalable applications.

Implementing AWS: Design, Build, and Manage your Infrastructure Yohan Wadia,Rowan Udell,Lucas Chan,Udita Gupta,2019-01-31 Work through exciting recipes to administer your AWS cloud Key FeaturesBuild secure environments using AWS components and servicesExplore core AWS features with real-world applications and best practicesDesign and build Lambda functions using real-world examplesBook 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, Udit 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, AWS Config, 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.

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