

# Mastering Aws Lambda E Books

[Building Serverless Node.js Apps on AWS](#)  
[Demystifying DevSecOps in AWS](#)  
[Serverless Architectures with AWS](#)  
[Aws Certified](#)  
[Infrastructure Monitoring with Amazon CloudWatch](#)  
[Mastering AWS](#)  
[Mastering AWS](#)  
[AWS Certified Cloud Practitioner \(CLF-C01\) Cert Guide](#)  
[Learning AWS IoT](#)  
[Mastering AWS CloudFormation](#)  
[AWS for Developers For Dummies](#)  
[AWS Lambda in Action](#)  
[Mastering Amazon Web Services \(AWS\)](#)  
[Mastering AWS CloudFormation](#)  
[Mastering AWS Lambda](#)  
[Serverless Applications with Node.js](#)  
[Serverless Architectures on AWS, Second Edition](#)  
[Building and Delivering Microservices on AWS](#)  
[Amazon S3 Cookbook](#)  
[Mastering AWS Cloud Computing](#)  
[Architecting AWS with Terraform](#)  
[Aws](#)  
[Mastering Aws Development](#)  
[AWS Lambda](#)  
[Mastering AWS Lambda](#)  
[Mastering AWS Cost Optimization](#)  
[Amazon Web Services in Action](#)  
[Building Serverless Python Web Services with Zappa](#)  
[Mastering AWS CloudFormation](#)  
[Implementing Cloud Design Patterns for AWS](#)  
[Serverless Architectures on AWS](#)  
[Hands-On Serverless Applications with Go](#)  
[Learn AWS Serverless Computing](#)  
[Mastering Amazon DynamoDB database](#)  
[Learning Serverless](#)  
[Serverless Architectures with Kubernetes](#)  
[Implementing AWS: Design, Build, and Manage Your Infrastructure](#)  
[Aws](#)  
[Amazon Web Services: the Definitive Guide for Beginners and Advanced Users](#)  
[Building Modern Serverless Web APIs](#)

Mastering Aws Lambda E Books

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## KANE MARKS

### Building Serverless Node.js Apps on AWS Cybellium Ltd

Whether your company is considering serverless computing or has already made the decision to adopt this model, this practical book is for you. Author Jason Katzer shows early and mid-career developers what's required to build and ship maintainable and scalable services using this model. With this book, you'll learn how to build a modern production system in the cloud, viewed through the lens of serverless computing. You'll discover how serverless can free you from the tedious task of setting up and maintaining systems in production. You'll also explore new ways to level up your career and design, develop, and deploy with confidence. In three parts, this book includes: The Path to Production: Examine the ins and outs of distributed systems, microservices, interfaces, and serverless architecture and patterns The Tools: Dive into monitoring, observability and alerting, logging, pipelines, automation, and deployment Concepts: Learn how to design security and privacy, how to manage quality through testing and staging, and how to plan for failure

[Demystifying DevSecOps in AWS](#) Independently Published

Learn to use AWS IoT services to build your connected applications with the help of this comprehensive guide. Key Features Gets you started with AWS IoT and its functionalities Learn different modules of AWS IoT with practical use cases. Learn to secure your IoT communication Book Description The Internet of Things market increased a lot in the past few years and IoT development and its adoption have showed an upward trend. Analysis and predictions say that Enterprise IoT platforms are the future of IoT. AWS IoT is currently leading the market with its wide range of device support SDKs and versatile management console. This book initially introduces you to the IoT platforms, and how it makes your IoT development easy. It then covers the complete AWS IoT Suite and how it can be used to develop secure communication between internet-connected things such as sensors, actuators, embedded devices, smart applications, and so on. The book also covers the various modules of AWS: AWS Greengrass, AWS device SDKs, AWS IoT Platform, AWS Button, AWS Management consoles, AWS-related CLI, and API references, all with practical use cases. Near the end, the book supplies security-related best practices to make bi-directional communication more secure. When you've finished this book, you'll be up-and-running with the AWS IoT Suite, and building IoT projects. What you will learn Implement AWS IoT on IoT projects Learn the technical capabilities of AWS IoT and IoT devices Create IoT-based AWS IoT projects Choose IoT devices and AWS IoT platforms to use based on the kind of project you need to build Deploy AWS Greengrass and AWS Lambda Develop program for AWS IoT Button Visualize IoT AWS data Build predictive analytics using AWS IoT and AWS Machine Learning Who this book is for This book is for anyone who wants to get started with the AWS IoT Suite and implement it with practical use cases. This book acts as an extensive guide, on completion of which you will be in a position to start building IoT projects using AWS IoT platform and using cloud services for your projects.

[Serverless Architectures with AWS](#) Charlie Creative Lab

Quickly deliver microservices with CodeCommit, CodeBuild, CodeDeploy, and CodePipeline using software architecture patterns, microservices, and release pipelines Purchase of the print or Kindle book includes a free PDF eBook Key Features Learn software architecture and microservices design patterns from an AWS certified professional architect Develop microservices using Spring Boot and automate the release using CodePipeline Deploy microservices using CodeDeploy to EC2 instances, containers, and on premises Book Description Reliable automation is crucial for any code change going into production. A release pipeline enables you to deliver features for your users efficiently and promptly. AWS CodePipeline, with its powerful integration and automation capabilities of building, testing, and deployment, offers a unique solution to common software delivery issues such

as outages during deployment, a lack of standard delivery mechanisms, and challenges faced in creating sustainable pipelines. You'll begin by developing a Java microservice and using AWS services such as CodeCommit, CodeArtifact, and CodeGuru to manage and review the source code. You'll then learn to use the AWS CodeBuild service to build code and deploy it to AWS infrastructure and container services using the CodeDeploy service. As you advance, you'll find out how to provision cloud infrastructure using CloudFormation templates and Terraform. The concluding chapters will show you how to combine all these AWS services to create a reliable and automated CodePipeline for delivering microservices from source code check-in to deployment without any downtime. Finally, you'll discover how to integrate AWS CodePipeline with third-party services such as Bitbucket, Blazemeter, Snyk, and Jenkins. By the end of this microservices book, you'll have gained the hands-on skills to build release pipelines for your applications. What you will learn Understand the basics of architecture patterns and microservice development Get to grips with the continuous integration and continuous delivery of microservices Delve into automated infrastructure provisioning with CloudFormation and Terraform Explore CodeCommit, CodeBuild, CodeDeploy, and CodePipeline services Get familiarized with automated code reviews and profiling using CodeGuru Grasp AWS Lambda function basics and automated deployment using CodePipeline Understand Docker basics and automated deployment to ECS and EKS Explore the CodePipeline integration with Jenkins Pipeline and on premises deployment Who this book is for This book is for software architects, DevOps engineers, SREs, and cloud engineers who want to learn more about automating their release pipelines for modifying features and releasing updates. Prior knowledge of AWS Cloud, Java, Maven, and Git will help you to get the most out of this book.

[Aws Certified](#) Simon and Schuster

You Are About To Uncover A New World Of Possibilities With Amazon Web Services (AWS)! AWS makes Amazon over \$25 billion, more money than what McDonalds makes, with over 36,000 locations spread in over 100 countries! While AWS is not Amazon's main business, this business segment is far ahead of the rest in providing efficient, flexible, secure reliable, user friendly, cost effective and scalable cloud computing solutions! This perhaps explains why some of the fastest growing companies are using it! But what exactly is AWS? What does it do? How does it work? How can an ordinary Joe and Jane who is non techie adopt it in his/her business? Is there a steep learning curve? If you have these questions, as you tinker with the idea of adopting AWS for your business, keep reading; by the end of this book, you will have all the answers you need to make an informed decision on whether it is time to adopt AWS for your business. And you don't have to be a techie, as this guide seeks to educate you, a current or potential AWS end user (a business executive or a business owner) without going through the complicated technical stuff that you won't need to make a decision! This A-Z AWS guide will teach you: Myths about AWS that you should stop believing and what to believe instead Why leveraging the power of cloud computing is the smart decision to make for your business, irrespective of its size How Amazon came up with AWS and how it developed it into the \$25+ billion service that is helping businesses grow to a global scale Everything that AWS has to offer to its different categories of users, with its key features The specific building blocks of Amazon web services as a solution that make it a MUST adopt cloud computing solution Some possible weaknesses of AWS that may be a deal breaker for some users How to tap into the optional AWS support services to take your user experience to the next level Why the future is in Amazon Elastic Compute Cloud (Amazon EC2) for those looking to play in the big league, even if they are tiny How AWS plays a central role in big data, machine learning, artificial intelligence, deep learning and more, including tools and user applications that you can leverage that rely on these technologies And much more! If you believe cloud computing is the one thing that will support your business as it grows to a global scale, make AWS your go-to solution; you will never regret it! And this book has covered everything about AWS that will leave you feeling confident about your understanding of

AWS so as to make an informed decision! Want to know whether you should deploy your next web service securely with AWS to start playing the big game even if you are a small business? Don't wait... Scroll up and click Buy Now in 1-Click or Buy NOW at the top of this page to start reading!

**Infrastructure Monitoring with Amazon CloudWatch** Packt Publishing Ltd

Learn to build, secure, deploy, and manage your serverless application in Golang with AWS Lambda Key Features Implement AWS lambda to build scalable and cost-efficient applications in Go Design and set the data flow between cloud services and custom business logic Learn to design Lambda functions using real-world examples and implementation scenarios Book Description Serverless architecture is popular in the tech community due to AWS Lambda. Go is simple to learn, straightforward to work with, and easy to read for other developers; and now it's been heralded as a supported language for AWS Lambda. This book is your optimal guide to designing a Go serverless application and deploying it to Lambda. This book starts with a quick introduction to the world of serverless architecture and its benefits, and then delves into AWS Lambda using practical examples. You'll then learn how to design and build a production-ready application in Go using AWS serverless services with zero upfront infrastructure investment. The book will help you learn how to scale up serverless applications and handle distributed serverless systems in production. You will also learn how to log and test your application. Along the way, you'll also discover how to set up a CI/CD pipeline to automate the deployment process of your Lambda functions. Moreover, you'll learn how to troubleshoot and monitor your apps in near real-time with services such as AWS CloudWatch and X-ray. This book will also teach you how to secure the access with AWS Cognito. By the end of this book, you will have mastered designing, building, and deploying a Go serverless application. What you will learn Understand how AWS Lambda works and use it to create an application Understand how to scale up serverless applications Design a cost-effective serverless application in AWS Build a highly scalable and fault-tolerant CI/CD pipeline Understand how to troubleshoot and monitor serverless apps in AWS Discover the working of APIs and single page applications Build a production-ready serverless application in Go Who this book is for This book is for Go developers who would like to learn about serverless architecture. Go programming knowledge is assumed. DevOps and Solution Architects who are interested in building serverless applications in Go can also choose this book.

**Mastering AWS** Packt Publishing Ltd

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.

**Mastering AWS** Packt Publishing Ltd

"Mastering Amazon Web Services (AWS): A Practical Hands-On Approach to Cloud Fundamentals" is your comprehensive guide to harnessing the full potential of Amazon's cloud computing platform. In today's technology landscape, AWS is at the forefront of cloud services, and this book is your key to unlocking its power. Starting with the basics, this hands-on guide introduces you to the world of cloud computing, covering core AWS services and principles. You'll learn how to set up your AWS environment, configure services, and manage resources efficiently. As you progress, the book takes you through more advanced topics, providing a deep dive into key services like Amazon EC2, S3, Lambda, and more. What sets this book apart is its practical, real-world approach. You won't just read about AWS concepts; you'll apply them in a variety of scenarios and projects. With step-by-step instructions and practical examples, you'll build your skills and gain the confidence to tackle complex cloud challenges. Whether you're an IT professional, a developer, or someone looking to enhance their cloud expertise, this book caters to all levels of experience. It covers essential cloud computing concepts, security best practices, cost optimization strategies, and the latest AWS updates, ensuring you're well-prepared for success in the cloud. But this book isn't just about learning AWS in isolation. It also explores key integration points with other AWS services and tools, as well as common third-party solutions. You'll discover how to build scalable, reliable, and cost-effective solutions that can meet the demands of modern businesses.

**AWS Certified Cloud Practitioner (CLF-C01) Cert Guide** Packt Publishing Ltd

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.

**Learning AWS IoT** BPB Publications

Create highly efficient design patterns for scalability, redundancy, and high availability in the AWS Cloud Key Features Build highly robust systems using the cloud infrastructure Make web applications resilient against scheduled and accidental downtime Explore and apply Amazon-provided services in unique ways to solve common design problems Book Description Whether you're just getting your feet wet in cloud infrastructure or already creating complex systems, this book will guide you through using the patterns to fit your system needs. Starting with patterns that cover basic processes such as source control and infrastructure-as-code, the book goes on to introduce cloud security practices. You'll then cover patterns of availability and scalability and get acquainted with the ephemeral nature of cloud environments. You'll also explore advanced DevOps patterns in operations and maintenance, before focusing on virtualization patterns such as containerization and serverless computing. In the final leg of your journey, this book will delve into data persistence and visualization patterns. You'll get to grips with architectures for processing static and dynamic data, as well as practices for managing streaming data. By the end of this book, you will be able to design applications that are tolerant of underlying hardware failures, resilient against an unexpected influx of data, and easy to manage and replicate. What you will learn Implement scaling policies on schedules, influxes in traffic, and deep health checks Make complete use of highly available and redundant storage Design content delivery networks to improve user experience Optimize databases through caching and sharding Apply patterns to solve common problems Implement repeatable processes for deploying systems Who this book is for If you're an architect, solution provider, or DevOps community member looking to implement repeatable patterns for deploying and maintaining services in the Amazon cloud infrastructure, this book is for you. You'll need prior experience of using AWS understand key concepts covered in the book, as it focuses on the patterns rather than the basics of using AWS.

**Mastering AWS CloudFormation** Independently Published

Deploy, orchestrate, and monitor serverless applications using Kubernetes Key Features Get hands-on experience with frameworks, such as Kubeless, Apache OpenWhisk, and FunktionMaster the basics of Kubernetes and prepare yourself for challenging technical assessments Learn how to launch Kubernetes both locally and in a public cloud Book Description Kubernetes has established itself as the standard platform for container management, orchestration, and deployment. By learning Kubernetes, you'll be able to design your own serverless architecture by implementing the function-as-a-service (FaaS) model. After an accelerated, hands-on overview of the serverless architecture and various Kubernetes concepts, you'll cover a wide range of real-world development challenges faced by real-world developers, and explore various techniques to overcome them. You'll learn how to create production-ready Kubernetes clusters and run serverless applications on them. You'll see how Kubernetes platforms and serverless frameworks such as Kubeless, Apache OpenWhisk and OpenFaaS provide the tooling to help you develop serverless applications on Kubernetes. You'll also learn ways to select the appropriate framework for your upcoming project. By the end of this book, you'll have the skills and confidence to design your own serverless applications using the power and flexibility of Kubernetes. What you will learn Deploy a Kubernetes cluster locally with Minikube Get familiar with AWS Lambda and Google Cloud Functions Create, build, and deploy a webpage generated by the serverless functions in the cloud Create a Kubernetes cluster running on the virtual kubelet hardware abstraction Create, test, troubleshoot, and delete an OpenFaaS function Create a sample Slackbot with Apache OpenWhisk actions Who this book is for This book is for software developers and DevOps engineers who have basic or intermediate knowledge about Kubernetes and want to learn how to create serverless applications that run on Kubernetes. Those who want to design and create serverless applications running on the cloud, or on-premise Kubernetes clusters will also find this book useful.

**AWS for Developers For Dummies** Packt Publishing Ltd

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.

**AWS Lambda in Action** Simon and Schuster

Achieve operational excellence by running scalable, testable, modular, repeatable, extendable, and customizable infrastructure Key Features Leverage AWS CloudFormation to manage your entire infrastructure Get up and running with maintaining your infrastructure as code and automating your environment Simplify infrastructure management and increase productivity with AWS CloudFormation Purchase of the print or Kindle book includes a free PDF eBook Book Description The advent of DevOps and the cloud revolution has compelled software engineers and operations teams to rethink how to manage complex infrastructures and build resilient solutions. With this AWS book, you'll find out how you can use Infrastructure as Code (IaC) to simplify infrastructure operations and manage the modern cloud with AWS CloudFormation. This guide covers AWS CloudFormation comprehensively, from template structures to developing complex and reusable infrastructure stacks. It takes you through template validation, stack deployment, and handling deployment

failures. It also demonstrates the use of AWS CodeBuild and CodePipeline for automating resource delivery and implementing continuous integration and continuous delivery (CI/CD) practices. As you advance, you'll learn how to modularize and unify your template on the fly using macros or by fixating the version using modules. You'll create resources outside of AWS with custom resources and catalog them with the CloudFormation registry. Finally, you'll improve the way you manage the modern cloud environment on AWS by extending CloudFormation through the AWS serverless application model (SAM) and the AWS cloud development kit (CDK). By the end of this book, you'll have mastered key AWS CloudFormation concepts and will be able to extend its capabilities for developing and deploying your own infrastructure. What you will learn

Understand modern approaches to IaC  
Develop universal, modular, and reusable CloudFormation templates  
Discover ways of applying continuous delivery with CloudFormation  
Implement IaC best practices in the AWS cloud  
Provision massive applications across multiple regions and accounts  
Automate template generation and software provisioning for AWS  
Extend CloudFormation features with custom resources and the registry  
Modularize and unify templates using modules and macros

Who this book is for  
If you are a developer who wants to learn how to write templates, a DevOps engineer or SRE interested in deployment and orchestration, or a solutions architect looking to understand the benefits of streamlined and scalable infrastructure management, this book is for you. Prior understanding of the AWS Cloud is necessary.

**Mastering Amazon Web Services (AWS)** Independently Published

There are varying ways one can pursue starting a new or converting an existing project to a Serverless architecture. One of the many arguments heard is that developers typically don't know where to begin. This book is intended for those seeking to leverage the Serverless Framework with a project written in Node.js. Expanding on the AWS Serverless App tutorial series, this book provides a step-by-step guide for building Node.js Serverless projects on AWS. It aims to solve one of the more predominant causes of delaying the transition to Serverless by providing engineers with an outline of where to begin on their Serverless journey. Example projects are provided to demonstrate several avenues that can be taken as well as some housekeeping items like formatting and building the continuous integration and delivery pipeline. Readers also get end-of-chapter quizzes, cheat sheets, and access to the full source code from the examples in this book.

**Mastering AWS CloudFormation** Packt Publishing Ltd

You Are A Click Away From Learning The Limitless Power Of Amazon Web Services (AWS) To Decide Whether It Is The Perfect Cloud Computing Solution For Your Business! The global public cloud computing market is estimated to be worth over \$250 billion, with top companies setting annual cloud computing budgets of over \$2 million per year, equivalent to about 1/3 of the company's IT budget. Indeed, efficient, high performing and profitable companies around the world have realized that cloud computing is the secret to massive growth and efficiency in service delivery on a global scale especially because it (cloud computing) allows data access from anywhere in the world. And at the center of it all is the world's biggest cloud computing solution, AWS, controlling over 47% of the market share, with an estimated market value of \$400 billion. So what makes AWS different from all the other cloud computing solutions? Why should you adopt AWS and not any other cloud computing solution? How does AWS work? What unique benefits does AWS offer? What services does AWS offer that make it the go-to cloud computing solution for thousands of companies around the world? Can a small business adopt AWS? How do you start using AWS in your business? If you have these and any other questions about AWS, this book is for you so keep reading. It covers takes a deep and wide approach to Amazon Web Services, covering both basic and advanced stuff relating to the functionality of AWS from an end-user perspective to help you make an informed decision regarding adopting AWS for your business. More precisely, the book will teach you: What cloud computing is Why cloud computing is preferred to a dedicated server What Amazon Web Services (AWS) is How AWS compares against other cloud providers Some benefits of using AWS Some of the major services AWS provides Debunking of common myths about Amazon web storage How to set up your Amazon Web Services Account How to automate operational tasks with lambda How to manage your AWS costs And so much more Even if this is your first encounter with the AWS, don't worry; you don't need any technical knowledge to use this book, as it is written with an end-user in mind so it breaks down even the seemingly complex concepts into easy to digest points that will help you to understand AWS like the back of your hand. At the end, you will understand why AWS is regarded as the most scalable, efficient, cost effective and reliable infrastructure for deploying secured web solutions even with minimal technical knowhow and support. Don't wait... Join the fastest growing companies in the world in adopting AWS to deploy your secured web solutions NOW! Click Buy Now With 1-Click or Buy Now to get started!

**Mastering AWS Lambda** Packt Publishing

"Mastering AWS Lambda" is the definitive guide for developers, system administrators, and IT professionals looking to harness the power of serverless computing with AWS Lambda. Whether you are new to AWS Lambda or aiming to sharpen your serverless architecture skills, this book offers a comprehensive exploration of AWS Lambda's capabilities, best practices, and advanced features. Dive deep into the core concepts of AWS Lambda, including triggers, sources, security, performance optimization, and cost management. Learn how to design, deploy, and maintain efficient, secure, and scalable serverless applications through practical examples, detailed explanations, and step-by-step instructions. This book covers everything from the basics of setting up your first function to the nuances of integrating AWS Lambda with other AWS services, troubleshooting common issues, and architecting complex serverless solutions. With "Mastering AWS Lambda," you'll unlock the full potential of serverless computing, reduce operational overhead, and build applications that are not only highly scalable and reliable but also cost-effective. Start your journey to mastering AWS Lambda and transform the way you develop and deploy applications in the cloud.

**Serverless Applications with Node.js** Independently Published

Over 30 hands-on recipes that will get you up and running with Amazon Simple Storage Service (S3) efficiently About This Book Learn how to store, manage, and access your data with AWS SDKs Study the Amazon S3 pricing model and learn how to calculate costs by simulating practical scenarios Optimize your Amazon S3 bucket by following step-by-step instructions of how to deliver your content with CloudFront, secure the S3 bucket with IAM, and lower costs with object life cycle management Who This Book Is For This book is for cloud developers who have experience of using Amazon S3 and are also familiar with Amazon S3. What You Will Learn Host a static website on Amazon S3 Calculate costs with AWS Simple Monthly Calculators Deploy a static website via CloudFormation Distribute your content via CloudFront Secure resources with bucket policies and IAM Protect objects using server-side and client-side encryption Enable Cross-Origin Resource Sharing Manage objects' life cycles to lower costs Optimize performance for uploading as well as downloading objects Enable S3 event notifications and create Lambda functions Manage common operations with AWS SDKs In Detail Amazon S3 is one of the most famous and trailblazing cloud object storage services, which is highly scalable, low-latency, and economical. Users only pay for what they use and can store and retrieve any amount of data at any time over the Internet, which attracts Hadoop users who run clusters on EC2. The book starts by showing you how to install

several AWS SDKs such as iOS, Java, Node.js, PHP, Python, and Ruby and shows you how to manage objects. Then, you'll be taught how to use the installed AWS SDKs to develop applications with Amazon S3. Furthermore, you will explore the Amazon S3 pricing model and will learn how to annotate S3 billing with cost allocation tagging. In addition to this, the book covers several practical recipes about how to distribute your content with CloudFront, secure your content with IAM, optimize Amazon S3 performance, and notify S3 events with Lambda. By the end of this book, you will be successfully implementing pro-level practices, techniques, and solutions in Amazon S3. Style and approach A step-by-step practical guide that will show you how to efficiently store, manage, and control your data in Amazon S3.

**Serverless Architectures on AWS, Second Edition** Packt Publishing Ltd

Amazon Web Services: A Comprehensive Guide for Beginners and Advanced Users is your go-to companion for learning and mastering AWS. It presents 10 easy-to-read chapters that build a foundation for cloud computing while also equipping readers with the skills necessary to use AWS for commercial projects. Readers will learn how to use AWS cloud computing services for seamless integrations, effective monitoring, and optimizing cloud-based web applications. What you will learn from this guide: 1. Identity and Access Management in AWS: Learn about IAM roles, security of the root account, and password policies, ensuring a robust foundation in access management. 2. Amazon EC2 Instance: Explore the different types of EC2 instances, pricing strategies, and hands-on experiences to launch, manage, and terminate EC2 instances effectively. This knowledge will help to make informed choices about pricing strategies. 3. Storage Options and Solutions: A detailed examination of storage options within Amazon EC2 instances. Understanding Amazon Elastic Block Store (EBS), Amazon Elastic File Storage (EFS), and more, will enhance your ability to handle data storage efficiently. 4. Load Balancing and Auto Scaling: Learn about different types of load balancers and how auto-scaling groups operate, to master the art of managing varying workloads effectively. 5. Amazon Simple Storage Service (S3): Understand S3 concepts such as buckets, objects, versioning, storage classes, and practical applications. 6. AWS Databases and Analytics: Gain insights into modern databases, AWS cloud databases, and analytics services such as Amazon Quicksight, AWS Glue, and Amazon Redshift. 7. Compute Services and Integrations: Understand the workings of Docker, virtual machines, and various compute services offered by AWS, including AWS Lambda and Amazon Lightsail, Amazon MQ and Amazon SQS. 8. Cloud Monitoring: Understand how to set up alarms, analyze metrics, and ensure the efficient monitoring of your cloud environment using Amazon CloudWatch and CloudTrail. Key Features: Comprehensive Introduction to Cloud Computing and AWS Guides readers to the complete set of features in AWS Easy-to-understand language and presentation with diagrams and navigation guides References for further reading Whether you're a student diving into cloud specialization as part of your academic curriculum or a professional seeking to enhance your skills, this guide provides a solid foundation for learning the potential of the AWS suite of applications to deploy cloud computing projects.

**Building and Delivering Microservices on AWS** Bentham Science Publishers

Serverless Architectures on AWS, Second Edition teaches you how to design, secure, and manage serverless backend APIs for web and mobile applications on the AWS platform. You'll get going quickly with this book's relevant real-world examples, code listings, diagrams, and clearly-described architectures that you can readily apply to your own work. You'll master serverless systems using AWS Lambda and the myriad other services on the AWS platform. This new edition has been fully updated to reflect the newest serverless design best practices and changes to AWS. It features two entirely new chapters dedicated to DevOps, monitoring, and microservices, as well as working with DynamoDB, GraphQL and Kinesis. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications.

**Amazon S3 Cookbook** John Wiley & Sons

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