

Read Online Aws Lambda A
Guide To Serverless
Microservices

Aws Lambda A Guide To Serverless Microservices

*Build cost-effective and highly
scalable Serverless applications*

Read Online Aws Lambda A Guide To Serverless Microservices

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

Read Online Aws Lambda A Guide To Serverless Microservices

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

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*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*

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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,

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*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*

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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

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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,

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*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*

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*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*

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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

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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

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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,

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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

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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

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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.

Deploy functions efficiently using

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different cloud-based serverless offerings Key Features Understand the concept of Function-as-a-Service Implement Serverless solutions using AWS Lambda, Azure Functions and Google Cloud Functions Practical

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approach towards choosing the best tool for your serverless environment Book Description Serverless applications and architectures are gaining momentum and are increasingly being used by companies of all

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sizes. Serverless software takes care of many problems that developers face when running systems and servers, such as fault tolerance, centralized logging, horizontal scalability, and deployments. You will learn how

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to harness serverless technology to rapidly reduce production time and minimize your costs, while still having the freedom to customize your code, without hindering functionality. Upon finishing the book, you will have

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the knowledge and resources to build your own serverless application hosted in AWS, Microsoft Azure, or Google Cloud Platform, and will have experienced the benefits of event-driven technology for yourself.

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This hands-on guide dives into the basis of serverless architectures and how to build them using Node.js as a programming language, Visual Studio Code for code editing, and Postman for quickly and securely developing

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applications without the hassle of configuring and maintaining infrastructure on three public cloud platforms. What you will learn Understand the benefits of serverless computing and know when to use it Develop serverless

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*applications on AWS, Azure, and
Google Cloud Get to grips with
Function as a Service (FaaS)*

*Apply triggers to serverless
functions Build event-driven apps
using serverless frameworks Use
the Node.js programming*

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*language to build serverless apps
Use code editors, such as Visual
Studio Code, as development
environments Master the best
development practices for
creating scalable and practical
solutions Who this book is for This*

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book is targeted towards developers, system administrators or any stakeholder working in the Serverless environment and want to understand how functions work. Basic idea of serverless architecture can be an added

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advantage

Learn from the AWS subject-matter experts, apply real-world scenarios and clear the AWS Certified Solutions Architect -Associate exam Key Features
Build highly reliable and

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scalable workloads on the AWS platform
Pass the exam in less time and with confidence
Get up and running with building and managing applications on the AWS platform
Book Description
Amazon Web Services (AWS) is

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currently the leader in the public cloud market. With an increasing global interest in leveraging cloud infrastructure, the AWS Cloud from Amazon offers a cutting-edge platform for architecting, building, and deploying web-scale

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cloud applications. As more the rate of cloud platform adoption increases, so does the need for cloud certification. The AWS Certified Solution Architect - Associate Guide is your one-stop solution to gaining certification.

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Once you have grasped what AWS and its prerequisites are, you will get insights into different types of AWS services such as Amazon S3, EC2, VPC, SNS, and more to get you prepared with core Amazon services. You will then move on to

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understanding how to design and deploy highly scalable applications. Finally, you will study security concepts along with the AWS best practices and mock papers to test your knowledge. By the end of this book, you will not

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*only be fully prepared to pass the
AWS Certified Solutions Architect
- Associate exam but also capable
of building secure and reliable
applications. What you will
learnExplore AWS terminology
and identity and access*

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management Acquaint yourself with important cloud services and features in categories such as compute, network, storage, and databases Define access control to secure AWS resources and set up efficient monitoring Back up your

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database and ensure high availability by understanding all of the database-related services in the AWS CloudIntegrate AWS with your applications to meet and exceed non-functional requirementsBuild and deploy

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cost-effective and highly available applications
Who this book is for
The AWS Certified Solutions Architect -Associate Guide is for you if you are an IT professional or Solutions Architect wanting to pass the AWS Certified Solution

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Architect - Associate 2018 exam.

*This book is also for developers
looking to start building scalable
applications on AWS*

*AWS Lambda The Complete Guide
To Getting Started With
Serverless Microservices - Plus*

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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

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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

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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

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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

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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

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*turning the time-taking projects in
quick tasks through serverless
computing.*

*Hands-On Serverless Applications
with Kotlin*

*AWS Certified Advanced
Networking Official Study Guide*

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*Handbook of Research on Big
Data Storage and Visualization
Techniques*

Aws

*Develop scalable and cost-
effective web applications using
AWS Lambda and Kotlin*

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*AWS Certified Solutions Architect
Official Study Guide*

*The definitive guide to passing the
MLS-C01 exam on the very first
attempt*

**This up-to-date study guide
offers 100% coverage of**

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**every objective for the
current version of the AWS
Certified Solutions
Architect Professional exam
Get complete coverage of
all objectives included on
the SAA-C02 exam from this**

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**comprehensive resource.
Written by an expert AWS
Solutions Architect and well-
respected author, this
authoritative guide fully
addresses the knowledge
and skills required for**

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passing the AWS Certified Solutions Architect - Associate exam. You'll find learning objectives at the beginning of each chapter, exam tips, practice exam questions, and in-depth

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**explanations. You'll also
build your practical
knowledge with the many
hands-on labs found
throughout this guide.
Designed to help you pass
the exam with ease, this**

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**definitive volume also
serves as an essential on-
the-job reference. Covers all
exam domains, including:
Design Resilient
Architectures Design High-
Performing Architectures**

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**Design Secure Applications
and Architectures Design
Cost-Optimized
Architectures Online
content includes: 130
practice exam questions
Test engine that provides**

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**practice exams or quizzes
that can be customized by
chapter or exam objective
Prepare to achieve AWS
Machine Learning Specialty
certification with this
complete, up-to-date guide**

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**and take the exam with
confidence Key Features Get
to grips with core machine
learning algorithms along
with AWS
implementation Build model
training and inference**

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**pipelines and deploy
machine learning models to
the Amazon Web Services
(AWS) cloudLearn all about
the AWS services available
for machine learning in
order to pass the MLS-C01**

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**examBook Description The
AWS Certified Machine
Learning Specialty exam
tests your competency to
perform machine learning
(ML) on AWS
infrastructure. This book**

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covers the entire exam syllabus using practical examples to help you with your real-world machine learning projects on AWS. Starting with an introduction to machine

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learning on AWS, you'll learn the fundamentals of machine learning and explore important AWS services for artificial intelligence (AI). You'll then see how to prepare

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data for machine learning and discover a wide variety of techniques for data manipulation and transformation for different types of variables. The book also shows you how to

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handle missing data and outliers and takes you through various machine learning tasks such as classification, regression, clustering, forecasting, anomaly detection, text

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mining, and image processing, along with the specific ML algorithms you need to know to pass the exam. Finally, you'll explore model evaluation, optimization, and

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deployment and get to grips with deploying models in a production environment and monitoring them. By the end of this book, you'll have gained knowledge of the key challenges in

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machine learning and the solutions that AWS has released for each of them, along with the tools, methods, and techniques commonly used in each domain of AWS ML. What

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**you will learn Understand all
four domains covered in the
exam, along with types of
questions, exam duration,
and scoring Become well-
versed with machine
learning terminologies,**

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**methodologies, frameworks,
and the different AWS
services for machine
learningGet to grips with
data preparation and using
AWS services for batch and
real-time data**

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processing Explore the built-
in machine learning
algorithms in AWS and
build and deploy your own
models Evaluate machine
learning models and tune
hyperparameters Deploy

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**machine learning models
with the AWS
infrastructure**Who this
book is for This AWS book
**is for professionals and
students who want to
prepare for and pass the**

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AWS Certified Machine Learning Specialty exam or gain deeper knowledge of machine learning with a special focus on AWS. Beginner-level knowledge of machine learning and

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AWS services is necessary before getting started with this book.

Discover techniques and tools for building serverless applications with AWS Lambda Key Features Learn

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**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**

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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

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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

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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

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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

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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,

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**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**

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**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,**

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**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**

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**serverless applications with
AWS Lambda. No prior
knowledge of AWS is
necessary.**

**AWS Certified Solutions
Architect Associate (SAA-
C02) The AWS Certified**

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**Solutions Architect -
Associate examination is
intended for individuals
who perform a solutions
architect role and have one
or more years of hands-on
experience designing**

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**available, cost-efficient,
fault-tolerant, and scalable
distributed systems on
AWS. Abilities Validated by
the Certification Effectively
demonstrate knowledge of
how to architect and deploy**

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**secure and robust
applications on AWS
technologies Define a
solution using architectural
design principles based on
customer requirements
Provide implementation**

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guidance based on best practices to the organization throughout the life cycle of the project
Recommended Knowledge and Experience Hands-on experience using compute,

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**networking, storage, and
database AWS services
Hands-on experience with
AWS deployment and
management services
Ability to identify and
define technical**

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**requirements for an AWS-
based application Ability to
identify which AWS services
meet a given technical
requirement Knowledge of
recommended best
practices for building**

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**secure and reliable
applications on the AWS
platform An understanding
of the basic architectural
principles of building on
the AWS Cloud An
understanding of the AWS**

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global infrastructure An understanding of network technologies as they relate to AWS An understanding of security features and tools that AWS provides and how they relate to

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**traditional services 435+
most up-to-date and unique
questionnaires verified by
our extensive years of
experienced experts to
prepare for AWS Certified
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Applications with Go
AWS Certified SysOps
Administrator Official Study
Guide
AWS Certified Solutions
Architect Associate All-in-**

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One Exam Guide (Exam SAA-C01)

**The ultimate exam guide to
AWS Solutions Architect
certification**

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Guide - 2019 Edition**

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**AWS Certified Developer
Official Study Guide,
Associate Exam**

**Event-driven serverless
applications**

*Everything you need to know
for the Solutions Architect*

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- 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.

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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

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***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***

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*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*

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*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*

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*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*

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*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*

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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

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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

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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

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***resource for those seeking
AWS Solutions Architect –
Associate certification.
Quickstart guide for AWS
Amazon Web Services
LambdaAWS Lambda is an
incredibly versatile and
powerful platform, but only***

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*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*

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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

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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

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*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*

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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

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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

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*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*

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***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***

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***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***

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now!*

*Build reliable,
asynchronous, and
distributed applications
using message queuing and
task orchestration
capabilities of Amazon Web*

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***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***

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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

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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

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*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*

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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

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*functions Who This Book Is
For AWS developers and
software developers
proficient in Java, Python
and JavaScript.*

*Work through exciting
recipes to administer your
AWS cloud Key Features Build*

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*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*

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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

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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

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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

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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

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*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*

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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

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*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*

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*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*

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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

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effectively implement AWS in their organization and easily manage daily activities. Familiarity with Linux, web services, cloud computing platforms, virtualization, networking, and other administration-

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Microservices

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

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prove beneficial.

*Build, run and orchestrate
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Azure Functions, and Google
Cloud Functions*

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Certification Guide***

AWS Lambda - A Guide to
Serverless Microservices takes a
comprehensive look at

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developing "serverless"
workloads using the new
Amazon Web Services Lambda
service. Lambda enables users
to develop code that executes in
response to events - API calls,
file uploads, schedules etc. - and

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upload it without worrying about managing traditional server metrics such as disk space, memory, or CPU usage. With its "per execution" cost model, Lambda can enable organizations to save hundreds

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or thousands of dollars on computing costs. With in depth walkthroughs, large screenshots, and complete code samples, the reader is guided through the step-by-step process of creating new

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functions, responding to infrastructure events, developing API backends, executing code at specified intervals, and much more. Since its introduction at AWS re-invent in 2014, AWS Lambda has

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continued to be one of the fastest growing AWS services. With its arrival, a new application architecture diagram paradigm was created - referred to as serverless. AWS now provides a number of

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different services that allows you to build full assistants, Internet of Things (IoT) backends, and more can all be fully serverless. For the logic layer of a serverless application, you can execute your business

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logic using AWS Lambda.

Developers and organizations are finding that AWS Lambda is enabling much faster development speed and experimentation than is possible when deploying

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applications in a traditional server-based environment. This book is meant to provide you with a broad overview of AWS Lambda, its features, a hands-on and indepth guide to serverless microservices and a slew of

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recommendations. So what're you waiting for? Get a copy of this AWS Lambda book now! Serverless revolutionizes the way organizations build and deploy software. With this hands-on guide, Java engineers

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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

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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

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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

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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

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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

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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

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and new opportunities of
serverless architecture

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scalable Serverless applications
using AWS Lambda. About This
Book* Leverage AWS Lambda to
significantly lower your

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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.

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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,

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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

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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.

Design scalable big data solutions using Hadoop, Spark,

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and AWS cloud native services

Key Features Build data pipelines
that require distributed
processing capabilities on a
large volume of data Discover
the security features of EMR
such as data protection and

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granular permission

managementExplore best

practices and optimization

techniques for building data

analytics solutions in Amazon

EMRBook Description Amazon

EMR, formerly Amazon Elastic

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MapReduce, provides a managed Hadoop cluster in Amazon Web Services (AWS) that you can use to implement batch or streaming data pipelines. By gaining expertise in Amazon EMR, you can design

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and implement data analytics pipelines with persistent or transient EMR clusters in AWS. This book is a practical guide to Amazon EMR for building data pipelines. You'll start by understanding the Amazon EMR

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architecture, cluster nodes, features, and deployment options, along with their pricing. Next, the book covers the various big data applications that EMR supports. You'll then focus on the

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advanced configuration of EMR applications, hardware, networking, security, troubleshooting, logging, and the different SDKs and APIs it provides. Later chapters will show you how to implement

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common Amazon EMR use cases, including batch ETL with Spark, real-time streaming with Spark Streaming, and handling UPSERT in S3 Data Lake with Apache Hudi. Finally, you'll orchestrate your EMR jobs and

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strategize on-premises Hadoop cluster migration to EMR. In addition to this, you'll explore best practices and cost optimization techniques while implementing your data analytics pipeline in EMR. By the

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end of this book, you'll be able to build and deploy Hadoop- or Spark-based apps on Amazon EMR and also migrate your existing on-premises Hadoop workloads to AWS. What you will learn

Explore Amazon EMR

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features, architecture, Hadoop
interfaces, and EMR
StudioConfigure, deploy, and
orchestrate Hadoop or Spark
jobs in productionImplement
the security, data governance,
and monitoring capabilities of

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EMRBuild applications for batch
and real-time streaming data
analytics solutionsPerform
interactive development with a
persistent EMR cluster and
NotebookOrchestrate an EMR
Spark job using AWS Step

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Functions and Apache

Airflow Who this book is for This book is for data engineers, data analysts, data scientists, and solution architects who are interested in building data analytics solutions with the

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Hadoop ecosystem services and Amazon EMR. Prior experience in either Python programming, Scala, or the Java programming language and a basic understanding of Hadoop and AWS will help you make the

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most out of this book.

Simplify Big Data Analytics with
Amazon EMR

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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

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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

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Applying AWS Security Features along with traditional Information and Application Security Using Compute, Networking, Storage, and Database
AWS services Architecting Large Scale Distributed Systems

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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.

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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

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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

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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

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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

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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

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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.

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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

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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

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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

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Secure Applications and Architectures
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Architectures Digital content includes:
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engine that provides practice exams or
quizzes that can be customized by

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chapter or exam objective

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Ultimate Beginners Guide

The Definitive Guide to AWS

Application Integration

Beginner's guide to hacking AWS with
tools such as Kali Linux, Metasploit,
and Nmap

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Build and Deploy Serverless
Applications with Java

Leverage AWS Features to Build
Highly Secure, Fault-Tolerant, and
Scalable Cloud Environments

AWS Lambda in Action

Hands-On Serverless Computing

AWS Lambda The Essential Guide

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To Learning Everything You Need To Know About Microservices Without Servers! This guide will explore Amazon's Lambda web service. In this succinct eBook you will learn what AWS Lambda is, how it works and also get to grips

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**with how to create a few simple
Lambda functions. Here is a preview
of what you'll learn: Chapter 1 -
What is AWS Lambda? Chapter 2 -
What is a Lambda function?
Chapter 3 - Creating an AWS
account and IAM roles Chapter 4 -**

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Creating a simple Lambda function
Chapter 5 - Using the Amazon
Gateway API
Amazon Web Services (AWS)
Lambda lets you run JavaScript
(Node.js), Java & Python
scripts/apps in Amazon's (virtually)

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infinately-scalable cloud environment without having provision VM instances or other "orquestration"; Everything is dynamically auto-scaled so if you have 1 user or 1 billion you pay for usage. AWS are effectively

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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 &

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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

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scale in a fixed increment(instances).

Don't waste your energy thinking about servers; use AWS to build enterprise-grade serverless applications. Key Features Learn how to quickly and easily go serverless Explore AWS and

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Lambda: the first building blocks of serverless applications on AWS
Study different approaches to deploy and maintain serverless applications
Book Description Serverless Architecture with AWS begins with an introduction to the serverless

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model and helps you get started with AWS and Lambda. You'll also get to grips with other capabilities of the AWS Serverless Platform and see how AWS supports enterprise-grade serverless applications with and without Lambda. This book will

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guide you in deploying your first serverless project and exploring the capabilities of serverless Amazon Athena, an interactive query service that makes it easy to analyze data in Amazon Simple Storage Service (S3 Amazon) using standard SQL. You'll

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also learn about AWS Glue, a fully managed ETL service that makes categorizing data easy and cost-effective. You'll study how Amazon Kinesis makes it possible to unleash the potential of real-time data insights and analytics with

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capabilities such as video streams, data streams, data firehose, and data analytics. Last but not least, you'll be equipped to combine Amazon Kinesis capabilities with AWS Lambda to create lightweight serverless architectures. By the end

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of the book, you will be ready to create and run your first serverless application that takes advantage of the high availability, security, performance, and scalability of AWS. What you will learn Explore AWS services for supporting a

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**serverless environment Set up AWS
services to make applications
scalable and highly available Deploy
a static website with a serverless
architecture Build your first
serverless web application Study the
changes in a deployed serverless web**

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application Apply best practices to ensure overall security, availability, and reliability Who this book is for This book is for you if you want to develop serverless applications and have some prior coding experience. Though no prior experience of AWS

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is needed, basic knowledge of Java or Node.js will be an added advantage.

Summary AWS Lambda in Action is an example-driven tutorial that teaches you how to build applications that use an event-driven

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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

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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

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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

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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

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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

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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

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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

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**frequent speaker at public events
and workshops. Table of Contents
PART 1 - FIRST STEPS Running
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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**

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deployment Automating
infrastructure management PART 4**

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- USING EXTERNAL SERVICES

**Calling external services Receiving
events from other services**

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Started with Serverless**

**Microservices - Plus Little-Known
Tips and Tricks!**

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The Complete Beginner's Guide

**A guide for programmers interested
in developing cloud native
applications using Ballerina Swan
Lake**

A Practical Guide to Moving Your

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Website to AWS

AWS Lambda

**The Essential Guide to Learning
Everything You Need to Know about
Microservices Without Servers!**

Learn to build, secure, deploy, and
manage your serverless application in

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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

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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

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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

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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

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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

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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

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to scaleup 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

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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

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Go can also choose this book.

Learn how to build scalable cloud native applications with the new-generation Ballerina language using expert tips and best practices Key FeaturesWork with code samples based on the Ballerina Swan Lake Beta1 versionExplore the in-built

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networking protocol support in
Ballerina to develop secure distributed
appsBuild a Ballerina app with an
automated CI/CD pipeline with
observability to simplify maintenance
and deploymentBook Description The
Ballerina programming language was
created by WSO2 for the modern

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needs of developers where cloud native development techniques have become ubiquitous. Ballerina simplifies how programmers develop and deploy cloud native distributed apps and microservices. Cloud Native Applications with Ballerina will guide you through Ballerina essentials,

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different architectural patterns that you can use to implement services on the cloud. As you advance, you'll explore multiple design patterns used in microservice architecture and use serverless in Amazon Web Services (AWS) and Microsoft Azure platforms. You will also get to grips with Docker,

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Kubernetes, and serverless platforms to simplify maintenance and the deployment process. Later, you'll focus on the Ballerina testing framework along with deployment tools and monitoring tools to build fully automated observable cloud applications. By the end of this book,

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you will have learned how to apply the Ballerina language for building scalable, resilient, secured, and easy-to-maintain cloud native Ballerina projects and applications. What you will learn Understand the concepts and models in cloud native architecture Get to grips with the high-level concepts of

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building applications with the Ballerina language
Use cloud native architectural design patterns to develop cloud native Ballerina applications
Discover how to automate, maintain, and observe cloud native Ballerina applications
Use a container to deploy and maintain a Ballerina application

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Microservices

with Docker and KubernetesExplore serverless architecture and use Microsoft Azure and the AWS platform to build serverless applicationsWho this book is for This Ballerina Swan Lake book is for cloud developers, integration developers, and microservices developers who are

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facing challenges with legacy tooling and are looking for the latest tools and technologies to solve them. Beginner-level programming knowledge is required before getting started with this Ballerina book.

This volume constitutes the refereed proceedings of the 27th European

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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

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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

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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

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held virtually due to the COVID-19 pandemic.

Choose the right architecture and design it using design patterns to create a serverless application that cuts costs and is easily scalable Key Features Design enterprise ready serverless applications that effortlessly

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meet your customers' requirements Effectively deploy, manage, monitor, and orchestrate serverless applications using AWS Use Cloud9 to provision a secured development environment in the cloud Book Description Serverless is a cloud computing execution model

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where the cloud provider dynamically manages the allocation and provisioning of servers. Many companies have started using serverless architectures to cut costs and improve scalability. Hands-On Serverless Applications with Kotlin is your one-stop guide to designing

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serverless architectures for your applications with AWS and Kotlin. To start with, you'll explore the fundamentals of serverless architecture and how AWS Lambda functions work. You will then learn to design, build, secure, and deploy your application to production. In addition to

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these activities, you'll understand how to implement non-functional requirements such as auditing and logging. Moving on, you'll discover how to scale up and orchestrate serverless applications using an open source framework and handle distributed serverless systems in

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production. By the end of the book, you'll have gained the knowledge needed to build scalable and cost-efficient Kotlin applications with a serverless framework. What you will learn

Design a serverless architecture
Use AWS Lambda to contain your serverless API
Explore the

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various ways to keep serverless apps safe and secure Understand how a serverless API allows you to use huge infrastructure and cut costs Discover how to handle distributed systems in Kotlin Design the data flow between cloud services and custom business logic Secure your Kotlin AWS

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serverless application Master Kotlin
design patterns for serverless
applications Who this book is for Hands-
On Serverless Applications with Kotlin
is for you if you are a Kotlin developer
who wants to learn about serverless
architectures. It is assumed that you
have some knowledge of Kotlin

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programming and AWS.

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Serverless Microservices

Learn how to build and deploy
serverless applications on AWS
Specialty Exam

Implementing AWS: Design, Build, and

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Manage Your Infrastructure
Serverless Architectures with AWS
2019 Beginner's Guide to Serverless
Microservices

**AWS Lambda - The Complete
Beginner's Guide ? ? ? Free
Bonus Included ? ? ? This book**

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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

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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

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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

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**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**

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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 -

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**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**

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**and encryption with this guide to
ethical hacking and learn to
secure your AWS environment
Key FeaturesPerform
cybersecurity events such as
red or blue team activities and
functional testingGain an**

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**overview and understanding of
AWS penetration testing and
security Make the most of your
AWS cloud infrastructure by
learning about AWS
fundamentals and exploring
pentesting best practices Book**

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Description Cloud security has always been treated as the highest priority by AWS while designing a robust cloud infrastructure. AWS has now extended its support to allow users and security experts to

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perform penetration tests on its environment. This has not only revealed a number of loopholes and brought vulnerable points in their existing system to the fore, but has also opened up opportunities for organizations

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to build a secure cloud environment. This book teaches you how to perform penetration tests in a controlled AWS environment. You'll begin by performing security assessments of major AWS

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resources such as Amazon EC2 instances, Amazon S3, Amazon API Gateway, and AWS Lambda. Throughout the course of this book, you'll also learn about specific tests such as exploiting applications, testing

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**permissions flaws, and
discovering weak policies.
Moving on, you'll discover how
to establish private-cloud access
through backdoor Lambda
functions. As you advance, you'll
explore the no-go areas where**

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users can't make changes due to vendor restrictions and find out how you can avoid being flagged to AWS in these cases. Finally, this book will take you through tips and tricks for securing your cloud environment in a

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professional way. By the end of this penetration testing book, you'll have become well-versed in a variety of ethical hacking techniques for securing your AWS environment against modern cyber threats. What you

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will learn Set up your AWS account and get well-versed in various pentesting services
Delve into a variety of cloud pentesting tools and methodologies
Discover how to exploit vulnerabilities in both

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AWS and

applications Understand the
legality of pentesting and learn
how to stay in scope Explore
cloud pentesting best practices,
tips, and tricks Become
competent at using tools such

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**as Kali Linux, Metasploit, and
NmapGet to grips with post-
exploitation procedures and find
out how to write pentesting
reportsWho this book is for If
you are a network engineer,
system administrator, or system**

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**operator looking to secure your
AWS environment against
external cyberattacks, then this
book is for you. Ethical hackers,
penetration testers, and security
consultants who want to
enhance their cloud security**

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skills will also find this book useful. No prior experience in penetration testing is required; however, some understanding of cloud computing or AWS cloud is recommended.

Understand the steps necessary

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to host your website using the Amazon Web Services (AWS) platform. You will be able to set up your website for the first time or migrate your existing website. Explore scenarios, considerations, and steps for

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three types of websites, including hosting a static website, a content management system (CMS) based website, and a full-featured enterprise level website. Topic areas such as content storage in S3,

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**compute resources in EC2,
Route53 DNS Management,
email services setup using
Simple Email Service as well as
strategies for high availability,
fault tolerance, and website
maintenance are covered.**

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Website Hosting and Migration with Amazon Web Services is organized in a way that allows you to start with simple concepts using AWS core services that allow you to build knowledge and confidence using

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AWS services while exploring the latest technology on this ever-updating platform. Using AWS to host your website offers you more control over your infrastructure, content delivery, and ability to scale to fit your

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website needs. It's time to take control and take your website to the next level. This engaging resource: Explains how to use the Amazon Web Services Free Tier to evaluate the platform for hosting your website Walks you

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**through the setup and migration
steps for three unique and
popular web hosting scenarios
Delivers hands-on experience
with base concepts that can be
built upon to grow and improve
your website infrastructure**

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Provides sample resources to test and understand the setup process fully What You'll Learn Evaluate Amazon Web Services (AWS) offered on the platform that may benefit your website Set up and maintain three

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**unique types of websites using
AWS core services, enabling you
to gain a deeper understanding
of what is capable for your
website or future projects Select
AWS services that can improve
performance and control of your**

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website Use AWS RDS to deliver a redundant database solution for your website Manage DNS, domain registration, and transfers in AWS Use CloudFront to deliver content efficiently on a global scale Who

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This Book Is For Small business owners, webmasters, freelance web designers, and others looking to have more control over their web content, save money by using a platform that charges for just the services you

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use, or grow the stability of their website by making it highly available, fault tolerant, and easily deployed; those looking to learn more about AWS Web Hosting options in general. AWS Lambda The Complete

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**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**

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lambda to serverless applications. Serverless micro services are relatively new term in the technological world. Serverless is new and innovative architectural design in which the computing unit should not be

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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

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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

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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

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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.

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Build Real-World, Production-
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Lambda**

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**and implementing Amazon EMR
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Guide**

Mastering AWS Lambda

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AWS Certified Solutions

Architect – Associate Guide

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

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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

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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-

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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

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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

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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

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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

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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

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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

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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.

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Comprehensive, interactive exam preparation and so much more The AWS Certified SysOps Administrator Official Study Guide: Associate Exam is a comprehensive exam preparation resource. This book bridges the

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gap between exam preparation and real-world readiness, covering exam objectives while guiding you through hands-on exercises based on situations you'll likely encounter as an AWS Certified SysOps Administrator. From deployment,

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management, and operations to migration, data flow, cost control, and beyond, this guide will help you internalize the processes and best practices associated with AWS. The Sybex interactive online study environment gives you access to

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invaluable preparation aids, including an assessment test that helps you focus your study on areas most in need of review, and chapter tests to help you gauge your mastery of the material. Electronic flashcards make it easy

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to study anytime, anywhere, and a bonus practice exam gives you a sneak preview so you know what to expect on exam day. Cloud computing offers businesses a cost-effective, instantly scalable IT infrastructure. The AWS Certified

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SysOps Administrator - Associate credential shows that you have technical expertise in deployment, management, and operations on AWS. Study exam objectives Gain practical experience with hands-on exercises Apply your skills to real-

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world scenarios Test your understanding with challenging review questions Earning your AWS Certification is much more than just passing an exam—you must be able to perform the duties expected of an AWS Certified

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SysOps Administrator in a real-world setting. This book does more than coach you through the test: it trains you in the tools, procedures, and thought processes to get the job done well. If you're serious about validating your expertise and

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working at a higher level, the AWS Certified SysOps Administrator Official Study Guide: Associate Exam is the resource you've been seeking.

Are your goals realistic? Do you need to redefine your problem?

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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.

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console and command line •

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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

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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,

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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

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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

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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

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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

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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 •

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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

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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

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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.

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Process Improvement
Associate Exam

Cloud Native Applications with
Ballerina

The Complete Guide to Serverless
Microservices - Learn Everything

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You Need to Know about AWS
Lambda!

27th European Conference,
EuroSPI 2020, Düsseldorf,
Germany, September 9–11, 2020,
Proceedings

AWS Certified Solutions Architect

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Associate All-in-One Exam Guide,
Second Edition (Exam SAA-C02)

The digital age has presented an exponential growth in the amount of data available to individuals looking to draw conclusions based on given or collected information across industries. Challenges associated with the analysis, security,

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sharing, storage, and visualization of large and complex data sets continue to plague data scientists and analysts alike as traditional data processing applications struggle to adequately manage big data. The Handbook of Research on Big Data Storage and Visualization Techniques is a critical scholarly resource that explores big

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data analytics and technologies and their role in developing a broad understanding of issues pertaining to the use of big data in multidisciplinary fields. Featuring coverage on a broad range of topics, such as architecture patterns, programing systems, and computational energy, this publication is geared towards

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professionals, researchers, and students seeking current research and application topics on the subject.

The official study guide for the AWS certification specialty exam The AWS Certified Advanced Networking Official Study Guide □ Specialty Exam helps to ensure your preparation for the AWS

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Certified Networking specialist. Coverage includes the design, implementation, and deployment of cloud-based solutions; core AWS services implementation and knowledge of architectural best practices; AWS service architecture design and maintenance; networking automation; and more. You also get one year of free access

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to Sybex's online interactive learning environment and study tools, which features flashcards, a glossary, chapter tests, practice exams, and a test bank to help you track your progress and gauge your readiness as exam day grows near. The AWS credential validates your skills surrounding AWS and hybrid IT network

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architectures at scale. The exam assumes existing competency with advanced networking tasks, and assesses your ability to apply deep technical knowledge to the design and implementation of AWS services. This book provides comprehensive review and extensive opportunities for practice, so you can

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polish your skills and approach exam day with confidence. Study key exam essentials with expert insight Understand how AWS skills translate to real-world solutions Test your knowledge with challenging review questions Access online study tools, chapter tests, practice exams, and more Technical expertise in

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cloud computing, using AWS, is in high demand, and the AWS certification shows employers that you have the knowledge and skills needed to deliver practical, forward-looking cloud-based solutions. The AWS Certified Advanced Networking Official Study Guide □ Specialty Exam helps you learn what you need to take this

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next big step for your career.

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

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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

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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

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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

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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

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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

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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

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12.