



AMAZON WEB SERVICES

CLOUD COMPUTING PLATFORM

ABSTRACT

AWS, is a cloud computing platform that provides businesses with a comprehensive range of services and tools for running their applications and services in the cloud. With flexibility, scalability, and agility, AWS is designed to help businesses reduce costs and drive innovation.

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Overview of the Book

This book is divided into seven chapters, each of which covers a specific topic related to AWS Serverless. Here's an overview of what you can expect to learn from each chapter:

- Chapter 1: Introduction – This chapter provides an overview of AWS Serverless and the benefits of using it.
- Chapter 2: Creating an AWS Account – This chapter provide the process of creating an AWS account and explain the different options and settings available.
- Chapter 3: Creating a Lambda Function – This chapter covers the basics of creating a Lambda function, including creating a function from scratch and using blueprints.
- Chapter 4: Setting Up Your Environment – This chapter covers the tools needed to work with AWS Serverless, including the AWS CLI and IAM user creation.
- Chapter 5: Creating an API Gateway – This chapter covers creating an HTTP endpoint for your Lambda function using API Gateway.
- Chapter 6: Deploying Your Function – This chapter covers deploying your function using the AWS Management Console or the AWS CLI.
- Chapter 7: Testing Your Function – This chapter covers testing your function using the API Gateway console or the AWS CLI.
- Chapter 8: Monitoring and Troubleshooting – This chapter covers monitoring your Lambda functions and

API Gateway using CloudWatch and using X-Ray to troubleshoot issues with your serverless application.

By the end of this book, you'll have a solid understanding of AWS Serverless and how to develop and deploy your own serverless applications. Let's get started!

GETTING STARTED WITH AWS SERVERLESS: A Step-By-Step Guide

CHAPTER 1: INTRODUCTION

The world of cloud computing has revolutionized the way we develop and deploy applications. With the advent of serverless computing, this process has become even simpler and more efficient. Amazon Web Services (AWS) offers a robust set of serverless computing services that can help you develop and deploy applications with ease.

This book is designed to introduce you to the world of AWS Serverless and provide you with a step-by-step guide to getting started. Whether you're a seasoned developer or new to cloud computing, this book will provide you with the information you need to develop and deploy your own serverless applications.

In this chapter, we'll start with an overview of AWS Serverless and its benefits. We'll then dive into the main topics covered in the book.

[What is AWS Serverless?](#)

AWS Serverless refers to a cloud computing architecture where the cloud provider manages the underlying infrastructure and automatically allocates computing resources on-demand as required by the application. This eliminates the need for developers to manage servers or infrastructure, freeing them up to focus on application development and business logic.

AWS Serverless includes several services, including AWS Lambda, Amazon API Gateway, and Amazon DynamoDB. AWS Lambda is the core of the AWS Serverless architecture and allows developers to run code in response to events. Amazon

API Gateway provides a managed service for creating, publishing, and managing APIs, while Amazon DynamoDB provides a managed NoSQL database.

Benefits of AWS Serverless

AWS Serverless offers several benefits, including:

- **Reduced operational costs:** AWS Serverless eliminates the need for developers to manage servers, reducing operational costs.
- **Scalability:** AWS Serverless automatically scales computing resources based on application demand, ensuring that your application can handle traffic spikes.
- **Reduced time to market:** AWS Serverless allows developers to focus on application development and business logic, reducing the time to market for new applications.
- **Reduced risk:** AWS Serverless provides a highly available and fault-tolerant architecture that reduces the risk of application downtime.