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# **AWS Services**

***Release 1.0***

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## 1.1 Preface

### 1.1.1 Authors

- Jose Antonio Alvarez Cubero

### Who Should Read This Book?

#### Expected Audience

The intended audience for this book is those with a general need to understand main AWS services. While AWS certification candidates may experience the largest benefit from this content, the materials included herein may be of use to a much wider audience, especially given modern industry trends towards AWS cloud computing technologies.

There are many elements in this book that explore topics outside the typical contents of AWS certifications. For example the use of AWS python SDK can be viewed as a development-oriented task, however has specific relevance to cloud computing configuration and function, taking a very different approach than traditional CLI-based interface configuration.

### Organization of this Book

## 1.2 Terraform

modules.tf — Convert visual AWS diagram into Terraform configurations

Differences between CloudFormation, Terraform and Ansible in deployment of objects in AWS

## **1.3 Microservices**

Java Microservices Deployed on EC2 Container Service

Distributed version of the Spring PetClinic - adapted for Cloud Foundry and Kubernetes

## **1.4 Local AWS**

### **1.4.1 LocalStack**

How to Build and Deploy AWS Applications on Local Machine

### **1.4.2 Mock servers**

Mock HTTP API Server & Mock Service Online

How to Mock HTTP Servers With Stoplight Prism & OpenAPI

Creating meaningful API mocks — without re-writing the whole API

JSON Server

## **1.5 Journey to the cloud**

Journey to Being Cloud-Native – How and Where Should You Start?

Migrate with AWS

A Process for Mass Migrations to the Cloud

3 Shortcuts to Accelerate Your Cloud Migration and IT Portfolio Analysis

AWS Cloud Adoption Readiness Tool (CART)

AWS Prescriptive Guidance

AWS Prescriptive Guidance Overview

How to migrate

Migrating to AWS Method 2 – Rehosting, aka Lift-and-Shift

Microsoft Cloud Adoption Framework for Azure

Cloud Adoption Framework guidance

AWS Cloud Adoption Framework

## **1.6 Serverless**

10 Things Serverless Architects Should Know

Serverless Reference Architecture: Web Application

How can I turn my Restful API into a Serverless application and deploy it to AWS Lambda Step by Step

AWS Serverless Express  
The Innovator Island Workshop  
Serverless Reference Architecture: Web Application  
Wild Rydes Serverless Workshops  
Serverless Reference Architecture: Image Recognition and Processing Backend  
Serverless Reference Architecture: Real-time File Processing  
Serverless Reference Architecture: Vote Application  
Setup the Secure Pet Store  
S3-to-Lambda Patterns Series  
Serverless Web Application with AppSync Workshop  
AWS Serverless Ecommerce Platform  
ETL workflow  
AWS Serverless Application Model (AWS SAM)

### **1.6.1 S3 Proxy**

Tutorial: Create a REST API as an Amazon S3 proxy in API Gateway  
Using API Gateway as an S3 File Upload Proxy Scripted In Terraform  
Uploading objects using presigned URLs

## **1.7 Observability**

AWS observability workshop  
CloudMapper  
Monitor AWS services used by Kubernetes with Prometheus and PromCat



## CHAPTER 2

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### Indices and tables

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