

## Write On Aws

*Exam Name : Amazon AWS DevOps Engineer - Professional Exam Code : DOP-C01 Edition : Latest Verison (100% valid and stable) Number of Questions : 260 Questions with Answer*

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

*Exam Name : AWS Amazon Certified Solutions Architect - Professional Exam Code : SAP-C01 Edition : Latest Verison (100% valid and stable) Number of Questions : 708 Questions with Answer*

*Build efficient data lakes that can scale to virtually unlimited size using AWS Glue Key Features Learn to work with AWS Glue to overcome typical implementation challenges in data lakes Create and manage serverless ETL pipelines that can scale to manage big data Written by AWS Glue community members, this practical guide shows you how to implement AWS Glue in no time Book Description Organizations these days have gravitated toward services such as AWS Glue that undertake undifferentiated heavy lifting and provide serverless Spark, enabling you to create and manage data lakes in a serverless fashion. This guide shows you how AWS Glue can be used to solve real-world problems along with helping you learn about data processing, data integration, and building data lakes. Beginning with AWS Glue basics, this book teaches you how to perform various aspects of data analysis such as ad hoc queries, data visualization, and real-time analysis using this service. It also provides a walk-through of CI/CD for AWS Glue and how to shift left on quality using automated regression tests. You'll find out how data security aspects such as access control, encryption, auditing, and networking are implemented, as well as getting to grips with useful techniques such as picking the right file format, compression, partitioning, and bucketing. As you advance, you'll discover AWS Glue features such as crawlers, Lake Formation, governed tables, lineage, DataBrew, Glue Studio, and custom connectors. The concluding chapters help you to understand various performance tuning, troubleshooting, and monitoring options. By the end of this AWS book, you'll be able to create, manage, troubleshoot, and deploy ETL pipelines using AWS Glue. What you will learn Apply various AWS Glue features to manage and create data lakes Use Glue DataBrew and Glue Studio for data preparation Optimize data layout in cloud storage to accelerate analytics workloads Manage metadata including database, table, and schema definitions Secure your data during access control, encryption, auditing, and networking Monitor AWS Glue jobs to detect delays and loss of data Integrate Spark ML and SageMaker with AWS Glue to create machine learning models Who this book is for This book is for ETL developers, data engineers, and data analysts who want to understand how AWS Glue can help you solve your business problems. Basic knowledge of AWS data services is assumed.*

*AWS Security*

*Write Ansible playbooks for AWS, Google Cloud, Microsoft Azure, and OpenStack*

*Latest Amazon AWS Certified Developer Associate DVA-C01 Exam Questions and Answers*

*AWS Solutions Architect Associates SAA-C03 Certification Practice Tests and Quizzes illustrated*

*Set up a virtual lab and pentest major AWS services, including EC2, S3, Lambda, and CloudFormation*

*Mastering AWS CloudFormation*

*Serverless ETL and Analytics with AWS Glue*

Serverless revolutionizes the way organizations build and deploy software. With this hands-on guide, Java engineers 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 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 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 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 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 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 and new opportunities of serverless architecture

This guide is a map for managing access in an AWS account. It contains everything you need to know to configure IAM identities and policies to safeguard the account. IAM is a notoriously complicated service. I remember when I started out with AWS I felt it was an obstacle, making everything a lot harder than necessary. Everything was hidden behind some technical jargon and it wasn't intuitive at all where to configure things. Then it's JSON policy structure required a lot of searching for solutions. IAM was in my way whatever I wanted to do. It was much later when I become interested in security and that was when I realized how essential IAM is to secure an AWS account. There are a lot of other services for security, such as Config, Security Hub, CloudTrail, and GuardDuty, but they all play a secondary role. The security of an account lies in the configuration of IAM. After a bit of learning, I started to see the underlying logic behind all those obscure terminology that felt so distant at first. The identities, the types and structure of the policies all fit into a bigger picture that defines the security posture of an account. This book is a comprehensive and easy-

to-follow guide for everything you'll need to configure who can access an account and what they can do. It provides a ton of examples and practical tips with a lot of illustrations. It was written to give a complete overview of the different things you'll encounter in configuring access. You'll learn: \* How IAM helps with account security \* What are the different IAM identities \* How to write policies \* How the policy evaluation logic works

Learn to build robust security controls for the infrastructure, data, and applications in the AWS Cloud. **KEY FEATURES** ● Takes a comprehensive layered security approach that covers major use-cases. ● Covers key AWS security features leveraging the CLI and Management Console. ● Step-by-step instructions for all topics with graphical illustrations. ● Relevant code samples written in JavaScript (for Node.js runtime). **DESCRIPTION** If you're looking for a comprehensive guide to Amazon Web Services (AWS) security, this book is for you. With the help of this book, cloud professionals and the security team will learn how to protect their cloud infrastructure components and applications from external and internal threats. The book uses a comprehensive layered security approach to look into the relevant AWS services in each layer and discusses how to use them. It begins with an overview of the cloud's shared responsibility model and how to effectively use the AWS Identity and Access Management (IAM) service to configure identities and access controls for various services and components. The subsequent chapter covers AWS infrastructure security, data security, and AWS application layer security. Finally, the concluding chapters introduce the various logging, monitoring, and auditing services available in AWS, and the book ends with a chapter on AWS security best practices. By the end, as readers, you will gain the knowledge and skills necessary to make informed decisions and put in place security controls to create AWS application ecosystems that are highly secure. **WHAT YOU WILL LEARN** ● Learn to create a layered security architecture and employ defense in depth. ● Master AWS IAM and protect APIs. ● Use AWS WAF, AWS Secrets Manager, and AWS Systems Manager Parameter Store. ● Learn to secure data in Amazon S3, EBS, DynamoDB, and RDS using AWS Key Management Service. ● Secure Amazon VPC, filter IPs, use Amazon Inspector, use ECR image scans, etc. ● Protect cloud infrastructure from DDoS attacks and use AWS Shield. **WHO THIS BOOK IS FOR** The book is intended for cloud architects and security professionals interested in delving deeper into the AWS cloud's security ecosystem and determining the optimal way to leverage AWS security features. Working knowledge of AWS and its core services is necessary. **TABLE OF CONTENTS** 1. Introduction to Security in AWS 2. Identity And Access Management 3. Infrastructure Security 4. Data Security 5. Application Security 6. Logging, Monitoring, And Auditing 7. Security Best Practices

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 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 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 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 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 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 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 12.

Build your cloud security knowledge and expertise as an AWS Certified Security Specialist (SCS-C01)

Practical recipes to build, automate, and manage your AWS-based cloud environments, 2nd Edition

Effective DevOps with AWS

Plan, develop, and deploy your cloud infrastructure effectively using AWS CloudFormation

Build and Deploy Serverless Applications with Java

AWS Automation Cookbook

Associate (SOA-C01) Exam

Become an AWS SysOps administrator and explore best practices to maintain a well-architected, resilient, and secure AWS environment **Key Features** Explore AWS Cloud functionalities through a recipe-based approach Get to grips with a variety of techniques for automating your infrastructure Discover industry-proven best practices for architecting reliable and efficient workloads **Book Description** AWS is an on-demand remote computing service providing cloud infrastructure over the internet with storage, bandwidth, and customized support for APIs. This updated second edition will help you implement these services and efficiently administer your AWS environment. You will start with the AWS fundamentals and then understand how to manage multiple accounts before setting up consolidated billing. The book will assist you in setting up reliable and fast hosting for static websites, sharing data between running instances and backing up

data for compliance. By understanding how to use compute service, you will also discover how to achieve quick and consistent instance provisioning. You ' ll then learn to provision storage volumes and autoscale an app server. Next, you ' ll explore serverless development with AWS Lambda, and gain insights into using networking and database services such as Amazon Neptune. The later chapters will focus on management tools like AWS CloudFormation, and how to secure your cloud resources and estimate costs for your infrastructure. Finally, you ' ll use the AWS well-architected framework to conduct a technology baseline review self-assessment and identify critical areas for improvement in the management and operation of your cloud-based workloads. By the end of this book, you ' ll have the skills to effectively administer your AWS environment. What you will learn

Secure your account by creating IAM users and avoiding the use of the root login

Simplify the creation of a multi-account landing zone using AWS Control Tower

Master Amazon S3 for unlimited, cost-efficient storage of data

Explore a variety of compute resources on the AWS Cloud, such as EC2 and AWS Lambda

Configure secure networks using Amazon VPC, access control lists, and security groups

Estimate your monthly bill by using cost estimation tools

Learn to host a website with Amazon Route 53, Amazon CloudFront, and S3

Who this book is for If you are an administrator, DevOps engineer, or an IT professional interested in exploring administrative tasks on the AWS Cloud, then this book is for you. Familiarity with cloud computing platforms and some understanding of virtualization, networking, and other administration-related tasks is assumed.

Secure your Amazon Web Services (AWS) infrastructure with permission policies, key management, and network security, along with following cloud security best practices

Key Features

Explore useful recipes for implementing robust cloud security solutions on AWS

Monitor your AWS infrastructure and workloads using CloudWatch, CloudTrail, config, GuardDuty, and Macie

Prepare for the AWS Certified Security-Specialty exam by exploring various security models and compliance offerings

Book Description As a security consultant, securing your infrastructure by implementing policies and following best practices is critical. This cookbook discusses practical solutions to the most common problems related to safeguarding infrastructure, covering services and features within AWS that can help you implement security models such as the CIA triad (confidentiality, integrity, and availability), and the AAA triad (authentication, authorization, and availability), along with non-repudiation. The book begins with IAM and S3 policies and later gets you up to speed with data security, application security, monitoring, and compliance. This includes everything from using firewalls and load balancers to secure endpoints, to leveraging Cognito for managing users and authentication. Over the course of this book, you'll learn to use AWS security services such as Config for monitoring, as well as maintain compliance with GuardDuty, Macie, and Inspector. Finally, the book covers cloud security best practices and demonstrates how you can integrate additional security services such as Glacier Vault Lock and Security Hub to further strengthen your infrastructure. By the end of this book, you'll be well versed in the techniques required for securing AWS deployments, along with having the knowledge to prepare for the AWS Certified Security – Specialty certification. What you will learn

Create and manage users, groups, roles, and policies across accounts

Use AWS Managed Services for logging, monitoring, and auditing

Check compliance with AWS Managed Services that use machine learning

Provide security and availability for EC2 instances and applications

Secure data using symmetric and asymmetric encryption

Manage user pools and identity pools with federated login

Who this book is for If you are an IT security professional, cloud security architect, or a cloud application developer working on security-related roles and are interested in using AWS infrastructure for secure application deployments, then this Amazon Web Services book is for you. You will also find this book useful if you ' re looking to achieve AWS certification. Prior knowledge of AWS and cloud computing is required to get the most out of this book.

Orchestrate your cloud infrastructure

Key Features

Recipe-based approach to install and configure cloud resources using Ansible

Covers various cloud-related modules and their functionalities

Includes deployment of a sample application to the cloud resources that we create

Learn the best possible way to manage and automate your cloud infrastructure

Book Description Ansible has a large collection of inbuilt modules to manage various cloud resources. The book begins with the concepts needed to safeguard your credentials and explain how you interact with cloud providers to manage resources. Each chapter begins with an introduction and prerequisites to use the right modules to manage a given cloud provider. Learn about Amazon Web Services, Google Cloud, Microsoft Azure, and other providers. Each chapter shows you how to create basic computing resources, which you can then use to deploy an application. Finally, you will be able to deploy a sample application to demonstrate various usage patterns and utilities of resources. What you will learn

Use Ansible Vault to protect secrets

Understand how Ansible modules interact with cloud providers to manage resources

Build cloud-based resources for your application

Create resources beyond simple virtual machines

Write tasks that can be reused to create resources multiple times

Work with self-hosted clouds such as OpenStack and Docker

Deploy a multi-tier application on various cloud providers

Who this book is for If you are a system administrator, infrastructure engineer, or a DevOps engineer who wants to obtain practical knowledge about Ansible and its cloud deliverables, then this book is for you. Recipes in this book are designed for people who would like to manage their cloud infrastructures efficiently using Ansible, which is regarded as one of the best tools for cloud management and automation.

In depth informative guide to implement and use AWS security services effectively. About This Book

Learn to secure your network, infrastructure, data and

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

AWS Certified Solutions Architect Study Guide

Programming AWS Lambda

Learn how to design and build cloud-based data transformation pipelines using AWS

AWS Certified Solutions Architect - Associate

Mastering AWS Lambda

Amazon Web Services (AWS) Made Simple

***Your #1 all-in-one reference and exam Study Guide for the UPDATED AWS SysOps Administrator certification! This comprehensive book guides readers through the role of a SysOps Administrator and helps prepare candidates to take the updated AWS Certified SysOps Administrator—Associate (SOA-C01) Exam. The AWS Certified SysOps Administrator—Associate certification validates technical expertise in deployment, management, and operations on the AWS platform. This Study Guide not only prepares readers for the AWS exam, but it makes sure the reader is ready to perform the duties expected of SysOps Administrators. The book focuses on the skill-set required of AWS professionals by filling in the gap between test preparation and real-world preparedness. Concepts covered include: Monitoring and Reporting High Availability Deployment and Provisioning Storage and Data Management Security and Compliance Networking Automation and Optimization And More Readers will also have one year of free access to the Sybex interactive online learning environment and test bank, providing a suite of robust study tools including an assessment test, chapter tests, bonus practice exam, electronic flashcards, and a glossary of key terms.***

***Identify tools and techniques to secure and perform a penetration test on an AWS infrastructure using Kali Linux Key Features Efficiently perform penetration testing techniques on your public cloud instances Learn not only to cover loopholes but also to automate security monitoring and alerting within your cloud-based deployment pipelines A step-by-step guide that will help you leverage the most widely used security platform to secure your AWS Cloud environment Book Description The cloud is taking over the IT industry. Any organization housing a large amount of data or a large infrastructure has started moving cloud-ward — and AWS rules the roost when it comes to cloud service providers, with its closest competitor having less than half of its market share. This highlights the importance of security on the cloud, especially on AWS. While a lot has been said (and written) about how cloud environments can be secured, performing external security assessments in the form of pentests on AWS is still seen as a dark art. This book aims to help pentesters as well as seasoned system administrators with a hands-on approach to pentesting the various cloud services provided by Amazon through AWS using Kali Linux. To make things easier for novice pentesters, the book focuses on building a practice lab and refining penetration testing with Kali Linux on the cloud. This is helpful not only for beginners but also for pentesters who want to set up a pentesting environment in their private cloud, using Kali Linux to perform a white-box assessment of their own cloud resources. Besides this, there is a lot of in-depth coverage of the large variety of AWS services that are often overlooked during a pentest — from serverless infrastructure to automated deployment pipelines. By the end of this***

**book, you will be able to identify possible vulnerable areas efficiently and secure your AWS cloud environment. What you will learn**  
**Familiarize yourself with and pentest the most common external-facing AWS services**  
**Audit your own infrastructure and identify flaws, weaknesses, and loopholes**  
**Demonstrate the process of lateral and vertical movement through a partially compromised AWS account**  
**Maintain stealth and persistence within a compromised AWS account**  
**Master a hands-on approach to pentesting**  
**Discover a number of automated tools to ease the process of continuously assessing and improving the security stance of an AWS infrastructure**  
**Who this book is for** If you are a security analyst or a penetration tester and are interested in exploiting Cloud environments to reveal vulnerable areas and secure them, then this book is for you. A basic understanding of penetration testing, cloud computing, and its security concepts is mandatory.

**Everything you need to know for the Solutions Architect - 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. 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 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 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 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 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 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 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 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 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 resource for those seeking AWS Solutions Architect - Associate certification.**

**Automate release processes, deployment, and continuous integration of your application as well as infrastructure automation with the powerful services offered by AWS**  
**About This Book Accelerate your infrastructure's productivity by implementing a continuous delivery pipeline within your environment**  
**Leverage AWS services and Jenkins 2.0 to perform complete application deployments on Linux servers**  
**This recipe-based guide that will help you minimize application deployment downtime**  
**Who This Book Is For** This book is for developers and system administrators who are responsible for hosting their application and managing instances in AWS. It's also ideal for DevOps engineers looking to provide continuous integration, deployment, and delivery. A basic understanding of AWS, Jenkins, and some scripting knowledge is needed.  
**What You Will Learn**  
**Build a sample Maven and NodeJS Application using CodeBuild**  
**Deploy the application in EC2/Auto Scaling and see how CodePipeline helps you integrate AWS services**  
**Build a highly scalable and fault tolerant CI/CD pipeline**  
**Achieve the CI/CD of a microservice architecture application in AWS ECS using CodePipeline, CodeBuild, ECR, and CloudFormation**  
**Automate the provisioning of your infrastructure using CloudFormation and Ansible**  
**Automate daily tasks and audit compliance using AWS Lambda**  
**Deploy microservices applications on Kubernetes using Jenkins Pipeline 2.0**  
**In Detail**  
**AWS CodeDeploy, AWS CodeBuild, and CodePipeline are scalable services offered by AWS that automate an application's build and deployment pipeline. In order to deliver tremendous speed and agility, every organization is moving toward automating an entire application pipeline. This book will cover all the AWS services required to automate your deployment to your instances. You'll begin by setting up and using one of the AWS services for automation - CodeCommit. Next, you'll learn how to build a sample Maven and NodeJS Application using CodeBuild. After you've built the application, you'll see how to use CodeDeploy to deploy the application in EC2/Autoscaling. You'll also build a highly scalable and fault tolerant continuous integration (CI)/continuous deployment (CD) pipeline using some easy-to-follow recipes. Following this, you'll achieve CI/CD for Microservices application and reduce the risk within your software development lifecycle. You'll also learn to set up an infrastructure using CloudFormation Template and Ansible, and see how to automate AWS resources using AWS Lambda. Finally, you'll learn to automate instances in AWS and automate the deployment lifecycle of applications.**  
**By the end of this book, you'll be able to minimize application downtime and implement CI/CD, gaining total control over your software development lifecycle. Style and approach** This book takes a "How to do it" approach, providing with easy solutions to automate common maintenance and deployment tasks.

**Practical solutions for managing security policies, monitoring, auditing, and compliance with AWS**

**250+ AWS SAA SAA-C02 SAA-C03 Quizzes, Practice Exams, Cheat Sheets, Flashcards, I passed SAA Testimonials, Tips**

**Javascript on AWS Lambda**

**Create and maintain a secure cloud ecosystem**

**Ansible 2 Cloud Automation Cookbook**

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

**How to Write Policies, Control Access, and Secure an AWS Account**

Master running, managing, and optimizing your projects in the cloud using Amazon Web Services (AWS). Follow along with AWS experts Sergey and Viktor through a combination of lecture and hands-on to master AWS and cloud concepts, features, and techniques. The following ten topics will be covered in this AWS Made Simple course: Automating AWS Services Using Lambda . Use AWS Lambda to achieve availability, fault tolerance, flexibility, and reduce expenses in this first topic in the AWS series. Learn how to create a function and configure its dependencies. Setting up AWS Elastic Compute Cloud (EC2) Instances . Set up AWS Elastic Compute Cloud (EC2) On Demand, Spot Request, and Reserved instances in this second topic in the AWS series. Configuring AWS EC2 Instances . Optimize EC2 instances and save money in this third topic in the AWS series. Creating Tables in AWS . Create tables, primary keys, partition keys, and other attributes in DynamoDB in this fourth topic in the AWS series. Querying and Queueing Data in AWS . Write queries and queue messages in this fifth topic in the AWS series. Tracing Data with AWS X-Ray . Trace data with AWS X-Ray in this sixth topic in the AWS series. Navigating within AWS . Navigate using tags and roles in this seventh topic in the AWS series. Performing Change Control with AWS Codecommit . Perform change control with AWS Codecommit in this eighth topic in the AWS series. Using AWS S3 Objects to Control Your Resources . Use AWS S3 objects to control your resources in this ninth topic in the AWS series. Controlling Access Keys in AWS . Control access keys using user, groups, and account roles in this tenth topic in the AWS series.

Summary AWS Lambda in Action is an example-driven tutorial that teaches you how to build applications that use an event-driven 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 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 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 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 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 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 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 frequent speaker at public events and workshops. Table of Contents PART 1 - FIRST STEPS Running functions in the cloud Your first Lambda function Your function as a web API PART 2 - BUILDING EVENT-DRIVEN APPLICATIONS Managing security Using standalone 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 media-sharing application Why event-driven? PART 3 - FROM DEVELOPMENT TO PRODUCTION Improving development and testing Automating deployment Automating infrastructure management PART 4 - USING EXTERNAL SERVICES Calling external services Receiving events from other services Build, automate, and manage your AWS-based cloud environments About This Book Install, configure, and administer computing, storage, and networking in the AWS cloud Automate your infrastructure and control every aspect of it through infrastructure as code Work through exciting recipes to administer your AWS cloud Who This Book Is For If you are an administrator, DevOps engineer, or an IT professional who is moving to an AWS-based cloud environment, then this book is for you. It assumes familiarity with cloud computing platforms, and that you have some understanding of virtualization, networking, and other administration-related tasks. What You Will Learn Discover the best practices to achieve an automated repeatable infrastructure in AWS Bring down your IT costs by managing AWS successfully and deliver high availability, fault tolerance, and scalability Make any website faster with static and dynamic caching Create monitoring and alerting dashboards using CloudWatch Migrate a database to AWS Set up consolidated billing to achieve simple and effective cost management with accounts Host a domain and find out how you can automate health checks In Detail Amazon Web Services (AWS) is a bundled remote computing service that provides cloud computing infrastructure over the Internet with storage, bandwidth, and customized support for application programming interfaces (API). Implementing these services to efficiently administer your cloud environments is a core task. This book will help you build and administer your cloud environment with AWS. We'll begin with the AWS fundamentals, and you'll build the foundation for the recipes you'll work on throughout the book. Next, you will find out how to manage multiple accounts and set up consolidated billing. You will then learn to set up reliable and fast hosting for static websites, share data between running instances, and back up your data for compliance. Moving on, you will find out how to use the compute service to enable consistent and fast instance provisioning, and will see how to provision storage volumes and autoscale an application server. Next, you'll discover how to effectively use the networking and database service of AWS. You will also learn about the different management tools of AWS along with securing your AWS cloud. Finally, you will learn to estimate the costs for your cloud. By the end of the book, you will be able to easily administer your AWS cloud. Style and approach This practical guide is packed with clear, practical, instruction-based recipes that will enable you to use and implement the latest features of AWS.

This effective self-study system delivers complete coverage of every topic on the AWS Certified Developer Associate Exam Take the challenging AWS Certified Developer Associate Exam with confidence using the comprehensive information contained in this effective test preparation guide. Written by an Amazon Web Services certified expert and experienced trainer, AWS Certified Developer Associate All-in-One Exam Guide (Exam DVA-C01) covers every subject on the exam and clearly explains how to create, deploy, migrate, monitor, and debug cloud-native applications. Designed to help you pass the exam with ease, this guide also serves as an ideal on-the-job reference. Covers all topics on the exam, including: Getting started with AWS Journey AWS high availability and fault tolerance Working with cloud storage Authentication and authorization Creating SQL and NoSQL databases in AWS Cloud AWS application integration and management Developing cloud-native applications in AWS Building, deploying, and debugging cloud applications Electronic content includes: 130 practice questions Test engine containing full-length practice exams and customizable quizzes

AWS for Developers For Dummies

AWS Administration Cookbook

Associate (DVA-C01) Exam

AWS Security Cookbook

AWS All-in-one Security Guide

AWS Certified SysOps Administrator Study Guide

Latest Amazon AWS DevOps Engineer - Professional DOP-C01 Exam Questions and Answers

***AWS Certified Solutions Architect Associate (SAA-C02) The AWS Certified 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 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 secure and robust applications on AWS technologies Define a solution using architectural design principles based on customer requirements Provide implementation guidance based on best practices to the organization throughout the life cycle of the project Recommended Knowledge and Experience Hands-on experience using compute, networking, storage, and database AWS services Hands-on experience with AWS deployment and management services Ability to identify and define technical requirements for an AWS-based application Ability to identify which AWS services meet a given technical requirement Knowledge of recommended best practices for building 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 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 traditional services 435+ most up-to-date and unique questionnaires verified by our extensive years of experienced experts to prepare for AWS Certified Solutions Architect - Associate (SAA-C02) exam. We proud to says that, many students have easily cleared the exam with good score by practiced these questions and personal study guides. Don't hesitate!!! Please buy the book confidently because we always update the book with current level exam questions so that you can fully prepared for the actual exam.***

***Build high-performance CI/CD pipelines that are powered by AWS and the most cutting-edge tools and techniques Key Features Master the full AWS developer toolchain for building high-performance, resilient, and powerful CI/CD pipelines Get to grips with Chaos engineering, DevSecOps, and AIOps as applied to CI/CD Employ the latest tools and techniques to build a CI/CD pipeline for application and infrastructure Book Description Continuous integration and continuous delivery (CI/CD) has never been simple, but these days the landscape is more bewildering than ever; its terrain riddled with blind alleys and pitfalls that seem almost designed to trap the less-experienced developer. If you're determined enough to keep your balance on the cutting edge, this book will help you navigate the landscape with ease. This book will guide you through the most modern ways of building CI/CD pipelines with AWS, taking you step-by-step from the basics right through to the most advanced topics in this domain. The book starts by covering the basics of CI/CD with AWS. Once you're well-versed with tools such as AWS CodeStar, Proton, CodeGuru, App Mesh, SecurityHub, and CloudFormation, you'll focus on chaos engineering, the latest trend in testing the fault tolerance of your system. Next, you'll explore the advanced concepts of AIOps and DevSecOps, two highly sought-after skill sets for securing and optimizing your CI/CD systems. All along, you'll cover the full range of AWS CI/CD features, gaining real-world expertise. By the end of this AWS book, you'll have the confidence you need to create resilient, secure, and performant CI/CD pipelines using the best techniques and technologies that AWS has to offer. What you will learn Use AWS CodeStar to design and implement a full branching strategy Enforce Policy as Code using CloudFormation Guard and HashiCorp Sentinel Master app and infrastructure deployment at scale using AWS Proton and review app code using CodeGuru Deploy and manage production-grade clusters using AWS EKS, App Mesh, and X-Ray Harness AWS Fault Injection Simulator to test the resiliency of your app Wield the full arsenal of AWS Security Hub and Systems Manager for infrastructure security automation Enhance CI/CD pipelines with the AI-powered DevOps Guru service Who this book is for This book is for DevOps engineers, engineering managers, cloud developers, and cloud architects. Basic experience with the software development life cycle, DevOps, and AWS is all you need to get started.***

***\*\*\*\*\* WAGmob: An ebook and app platform for learning, teaching and training !!!\*\*\*\*\* WAGmob brings you, simple Neasy, on-the-go learning ebook for "Learn Amazon Web Services". The ebook provides: 1. Snack sized chapters for easy learning. 2. Bite sized flashcards to memorize key concepts. Designed for both students and adults. This ebook provides a quick summary of essential concepts in Amazon Web Services by following snack sized chapters: (Each chapter has corresponding flashcards) Introduction to Amazon Web Services: • Cloud Computing • Cloud Computing Stack • Amazon Web Services (AWS) • AWS Products and Services • AWS Uses • AWS Geo-Locations • AWS Management Console • Benefits of AWS AWS Products and Services: • AWS Products and Services Getting Started with Free Usage Tier: • Getting Started with AWS Free Usage Tier • Getting Started with the Free Usage Tier • Compute & Networking Free Tier Benefits • Storage Free Tier Benefits • Database Free Tier Benefits • Application Services Free Tier Benefits • Development and Management Free Tier Benefits Amazon EC2 - I: • Amazon EC2 • History of EC2 • Amazon EC2 Instances • Instance Types and Families • Amazon EBS • Instance Features • Benefits of Amazon EC2 • Amazon EC2 Service Commitment • Differences between Amazon EC2 and Azure? • Amazon EC2 Billing Amazon EC2 - II: • How to Launch an EC2 Instance • How to Connect to an EC2 Instance • How to Terminate an EC2 Instance Amazon S3: • Amazon Simple Storage Service (Amazon S3) • Amazon S3 Functionality • Notable Amazon S3 Users • Amazon S3 Security • Amazon S3 Access Control • Encryption in Amazon S3 • S3 Durability • S3 Versioning • Reduced Redundancy Storage (RSS) Amazon Glacier: • Amazon Glacier • How to Use Glacier? • Amazon Glacier Costing Amazon Account and MFA: • AWS Account and MFA • AWS MFA • Using an AWS MFA Device • AWS MFA Devices • Amazon Single Sign-On Amazon IAM: • AWS Identity and Access Management • IAM***

**Concepts • IAM Policies • EC2 Resource-Level Permission Amazon RDS: • Amazon RDS • RDS Components • Available RDS Interfaces • RDS Commands Cheat Sheet Amazon Marketplace: • AWS Marketplace • AWS Marketplace Products • Benefits of AWS Marketplace • Best Practices for Building AMIs for the Marketplace About WAGmob ebooks: 1) A companion ebook for on-the-go, bite-sized learning. 2) Over One million paying customers from 175+ countries. Why WAGmob ebooks: 1) Beautifully simple, Amazingly easy, Massive selection of ebook. 2) Effective, Engaging and Entertaining ebook. 3) An incredible value for money. Lifetime of free updates! 4) Proven track record with over a million paying customers. \*\*\*\*\* WAGmob Vision : simpleNeasy ebooks for a lifetime of on-the-go learning. WAGmob Mission : A simpleNeasy WAGmob ebook in every hand. WAGmob Platform: A unique platform to create and publish your own ebooks and apps. \*\*\*\*\* Please visit us at [www.simpleNeasyBook.Com](http://www.simpleNeasyBook.Com) or write to us at [Team@simpleNeasyBook.Com](mailto:Team@simpleNeasyBook.Com). We would love to improve our ebook and ebook platform.**

**Scale and maintain outstanding performance in your AWS-based infrastructure using DevOps principles Key FeaturesImplement continuous integration and continuous deployment pipelines on AWSGain insight from an expert who has worked with Silicon Valley's most high-profile companiesImplement DevOps principles to take full advantage of the AWS stack and servicesBook Description The DevOps movement has transformed the way modern tech companies work. Amazon Web Services (AWS), which has been at the forefront of the cloud computing revolution, has also been a key contributor to the DevOps movement, creating a huge range of managed services that help you implement DevOps principles. Effective DevOps with AWS, Second Edition will help you to understand how the most successful tech start-ups launch and scale their services on AWS, and will teach you how you can do the same. This book explains how to treat infrastructure as code, meaning you can bring resources online and offline as easily as you control your software. You will also build a continuous integration and continuous deployment pipeline to keep your app up to date. Once you have gotten to grips will all this, we'll move on to how to scale your applications to offer maximum performance to users even when traffic spikes, by using the latest technologies, such as containers. In addition to this, you'll get insights into monitoring and alerting, so you can make sure your users have the best experience when using your service. In the concluding chapters, we'll cover inbuilt AWS tools such as CodeDeploy and CloudFormation, which are used by many AWS administrators to perform DevOps. By the end of this book, you'll have learned how to ensure the security of your platform and data, using the latest and most prominent AWS tools. What you will learnImplement automatic AWS instance provisioning using CloudFormationDeploy your application on a provisioned infrastructure with AnsibleManage infrastructure using TerraformBuild and deploy a CI/CD pipeline with Automated Testing on AWSUnderstand the container journey for a CI/CD pipeline using AWS ECSMonitor and secure your AWS environmentWho this book is for Effective DevOps with AWS is for you if you are a developer, DevOps engineer, or you work in a team which wants to build and use AWS for software infrastructure. Basic computer science knowledge is required to get the most out of this book.**

**AWS Certified Solutions Architect - Associate (SAA-C01) Cert Guide**

**Data Engineering with AWS**

**AWS Certified Solutions Architect Study Guide with Online Labs**

**Continuous Integration and Continuous Deployment using AWS services**

**Learn AWS Serverless Computing**

**Associate SAA-C01 Exam**

**Associate SOA-C01**

**Exam Name : Amazon AWS Certified Developer Associate Exam Code : DVA-C01 Edition : Latest Verison (100% valid and stable) Number of Questions : 402 Questions with Answer Virtual, hands-on learning labs allow you to apply your technical skills in realistic environments. So Sybex has bundled AWS labs from XtremeLabs with our popular AWS Certified SysOps Administrator Study Guide to give you the same experience working in these labs as you prepare for the Certified SysOps Administrator Exam that you would face in a real-life application. These labs in addition to the book are a proven way to prepare for the certification and for work as an AWS SysOps Administrator. This comprehensive book guides readers through the role of a SysOps Administrator and helps prepare candidates to take the updated AWS Certified SysOps Administrator—Associate (SOA-C01) Exam. The AWS Certified SysOps Administrator—Associate certification validates technical expertise in deployment, management, and operations on the AWS platform. This Study Guide not only prepares readers for the AWS exam, but it makes sure the reader is ready to perform the duties expected of SysOps Administrators. The book focuses on the skill-set required of AWS professionals by filling in the gap between test preparation and real-world preparedness. Concepts covered include: Monitoring and Reporting High Availability Deployment and Provisioning Storage and Dada Management Security and Compliance Networking Automation and Optimization And More Readers will also have one year of free access to the Sybex interactive online learning environment and test bank, providing a suite of robust study tools including an assessment test, chapter tests, bonus practice exam, electronic flashcards, and a glossary of key terms. And included with this version of the book, XtremeLabs virtual labs that run from your browser. The registration code is included with the book and gives you 6 months unlimited access to XtremeLabs AWS Certified SysOps Administrator Labs with 6 unique lab modules based on the book.**

**There are 3 reasons to strengthen your cloud skills: 1- Cloud roles pay well. The average base salary for a Solutions Architect in the U.S. is \$140,000. 2- Cloud skills are in demand. Cloud computing has been one of the most in-demand hard skills for 7 years running. 3- Learning cloud can get you a raise. The average raise received by IT pros who gained new skills and/or certifications is \$15 - 30K. AWS certification is globally recognized as the premier way to demonstrate your AWS cloud skills. The AWS Certified Solutions Architect - Associate Level (SAA-C03) exam validates your ability to effectively demonstrate knowledge of how to architect and deploy secure and robust applications on AWS technologies. It is a required exam for the**

*AWS Certified Solutions Architect – Professional Level certification. In order to prepare for this exam, We suggest purchasing our AWS Certified Solutions Architect – Associate Level Exam Preparation eBook. This AWS Cloud Solutions Architect Associates Certification App covers all of the key concepts you need to know for the AWS Solutions Architect Associate Exam. Solution architecture is a practice of defining and describing an architecture of a system delivered in context of a specific solution and as such it may encompass description of an entire system or only its specific parts. Definition of a solution architecture is typically led by a solution architect. The AWS Certified Solutions Architect - Associate (SAA, SAA-C03) exam is intended for individuals who perform in a solutions architect role. The exam validates a candidate's ability to use AWS technologies to design solutions based on the AWS Well-Architected Framework including: Design solutions that incorporate AWS services to meet current business requirements and future projected needs Design architectures that are secure, resilient, high-performing, and cost-optimized Review existing solutions and determine improvements Become stronger in your current role or prepare to step into a new one by continuing to build the cloud solutions architecture skills companies are begging for right now. Demand for cloud solutions architect proficiency is only set to increase, so you can expect to see enormous ROI on any cloud learning efforts you embark on. What will you learn in this book? Design Secure Architectures Design Resilient Architectures Design High-Performing Architectures Design Cost-Optimized Architectures What are the requirements or prerequisites for reading this book? The target candidate should have at least 1 year of hands-on experience designing cloud solutions that use AWS services Who is this book for? IT Professionals, Solutions Architect, Cloud enthusiasts, Computer Science and Engineering Students, AWS Cloud Developer, Technology Manager and Executives, IT Project Managers What is taught in this book? AWS Certification Preparation for Solutions Architecture – Associate Level Key tools, technologies, and concepts covered • Compute • Cost management • Database • Disaster recovery • High performance • Management and governance • Microservices and component decoupling • Migration and data transfer • Networking, connectivity, and content delivery • Resiliency • Security • Serverless and event-driven design principles • Storage Some New AWS services covered: AWS Data Exchange, AWS Data Pipeline, AWS Lake Formation, Amazon Managed Streaming for Apache Kafka, Amazon AppFlow, AWS Outposts, VMware Cloud on AWS, AWS Wavelength, Amazon Neptune, Amazon Quantum Ledger Database, Amazon Timestream, AWS Amplify, Amazon Comprehend, Amazon Forecast, Amazon Fraud Detector, Amazon Kendra, AWS License Manager, Amazon Managed Grafana, Amazon Managed Service for Prometheus, AWS Proton, Amazon Elastic Transcoder, Amazon Kinesis Video Streams, AWS Application Discovery Service, AWS WAF Serverless, AWS AppSync, etc. Mobile App Version of the AWS Solutions Architect Associates SAA-C03 Certification Exam Prep Book: Android: <https://play.google.com/store/apps/details?id=com.awssolutionarchitectassociateexampreppro.app> iOS: <https://apps.apple.com/ca/app/solution-architect-assoc-pro/id1501465417> Windows 10/11: <https://www.microsoft.com/en-ca/store/p/aws-cert-solution-architect-associate-prep-pro/9pcn58wdr1qr> #AWS #SAAC02 #SAAC03 #AWSSAA #SAA #AWSCertification #AWSTraining #LearnAWS #CloudArchitect #SolutionsArchitect #Djamgatech --*

*Work through exciting recipes to administer your AWS cloud Key Features Build 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 Learning Path, you'll explore techniques to easily manage applications on the AWS cloud. You'll begin with an introduction to serverless computing, its advantages, and the fundamentals of AWS. The following chapters will guide you on how to manage multiple accounts by setting up consolidated billing, enhancing your application delivery skills, with the latest AWS services such as CodeCommit, CodeDeploy, and CodePipeline to provide continuous delivery and deployment, while also securing and monitoring your environment's workflow. It'll also add to your understanding of the services AWS Lambda provides to developers. To refine your skills further, it demonstrates how to design, write, test, monitor, and troubleshoot Lambda functions. By the end of this Learning Path, you'll be able to create a highly secure, fault-tolerant, and scalable environment for your applications. This Learning Path includes content from the following Packt products: AWS Administration: The Definitive Guide, Second Edition by Yohan Wadia AWS Administration Cookbook by Rowan Udell, Lucas Chan Mastering AWS Lambda by Yohan Wadia, Udit Gupta What you will learn Explore the benefits of serverless computing and applications Deploy apps with AWS Elastic Beanstalk and Amazon Elastic File System Secure environments with AWS CloudTrail, AWSConfig, and AWS Shield Run big data analytics with Amazon EMR and Amazon Redshift Back up and safeguard data using AWS Data Pipeline Create monitoring and alerting dashboards using CloudWatch Effectively monitor and troubleshoot serverless applications with AWS Design serverless apps via AWS Lambda, DynamoDB, and API Gateway Who this book is for This Learning Path is specifically designed for IT system and network administrators, AWS architects, and DevOps engineers who want to effectively implement AWS in their organization and easily manage daily activities. Familiarity with Linux, web services, cloud computing platforms, virtualization, networking, and other administration-related tasks will assist in understanding the concepts in the book. Prior hands-on experience with AWS core services such as EC2, IAM, S3, and programming languages, such as Node.js, Java, and C#, will also prove beneficial.*

*A Practical Guide to AWS IAM*

*AWS Certified SysOps Administrator Study Guide with Online Labs*

*How to use Node.js in a serverless architecture*

*Design, Build, Monitor, and Manage a Fortified Application Ecosystem on AWS (English Edition)*

*AWS SysOps Cookbook*

*Hands-On AWS Penetration Testing with Kali Linux*

*Learn Amazon Web Services - simpleNeasyBook by WAGmob*

**Get to grips with the fundamentals of cloud security and prepare for the AWS Security Specialty exam with the help of this comprehensive certification guide Key Features Learn the fundamentals of security with this fast-paced guide Develop modern cloud security skills to build effective security solutions Answer practice questions and take mock tests to pass the exam with confidence Book Description AWS Certified Security – Specialty is a certification exam to validate your**

expertise in advanced cloud security. With an ever-increasing demand for AWS security skills in the cloud market, this certification can help you advance in your career. This book helps you prepare for the exam and gain certification by guiding you through building complex security solutions. From understanding the AWS shared responsibility model and identity and access management to implementing access management best practices, you'll gradually build on your skills. The book will also delve into securing instances and the principles of securing VPC infrastructure. Covering security threats, vulnerabilities, and attacks such as the DDoS attack, you'll discover how to mitigate these at different layers. You'll then cover compliance and learn how to use AWS to audit and govern infrastructure, as well as to focus on monitoring your environment by implementing logging mechanisms and tracking data. Later, you'll explore how to implement data encryption as you get hands-on with securing a live environment. Finally, you'll discover security best practices that will assist you in making critical decisions relating to cost, security, and deployment complexity. By the end of this AWS security book, you'll have the skills to pass the exam and design secure AWS solutions. What you will learn

Understand how to identify and mitigate security incidents  
Assign appropriate Amazon Web Services (AWS) resources to underpin security requirements  
Work with the AWS shared responsibility model  
Secure your AWS public cloud in different layers of cloud computing  
Discover how to implement authentication through federated and mobile access  
Monitor and log tasks effectively using AWS  
Who this book is for  
If you are a system administrator or a security professional looking to get AWS security certification, this book is for you. Prior experience in securing cloud environments is necessary to get the most out of this AWS book.

This practical guide provides over 100 self-contained recipes to help you creatively solve issues you may encounter in your AWS cloud endeavors. If you're comfortable with rudimentary scripting and general cloud concepts, this cookbook will give you what you need to both address foundational tasks and create high-level capabilities. AWS Cookbook provides real-world examples that incorporate best practices. Each recipe includes code that you can safely execute in a sandbox AWS account to ensure that it works. From there, you can customize the code to help construct your application or fix your specific existing problem. Recipes also include a discussion that explains the approach and provides context. This cookbook takes you beyond theory, providing the nuts and bolts you need to successfully build on AWS. You'll find recipes for:

- Organizing multiple accounts for enterprise deployments
- Locking down S3 buckets
- Analyzing IAM roles
- Autoscaling a containerized service
- Summarizing news articles
- Standing up a virtual call center
- Creating a chatbot that can pull answers from a knowledge repository
- Automating security group rule monitoring, looking for rogue traffic flows
- And more.

The missing expert-led manual for the AWS ecosystem — go from foundations to building data engineering pipelines effortlessly

**Key Features**  
Learn about common data architectures and modern approaches to generating value from big data  
Explore AWS tools for ingesting, transforming, and consuming data, and for orchestrating pipelines  
Learn how to architect and implement data lakes and data lakehouses for big data analytics from a data lakes expert

**Book Description**  
Written by a Senior Data Architect with over twenty-five years of experience in the business, *Data Engineering for AWS* is a book whose sole aim is to make you proficient in using the AWS ecosystem. Using a thorough and hands-on approach to data, this book will give aspiring and new data engineers a solid theoretical and practical foundation to succeed with AWS. As you progress, you'll be taken through the services and the skills you need to architect and implement data pipelines on AWS. You'll begin by reviewing important data engineering concepts and some of the core AWS services that form a part of the data engineer's toolkit. You'll then architect a data pipeline, review raw data sources, transform the data, and learn how the transformed data is used by various data consumers. You'll also learn about populating data marts and data warehouses along with how a data lakehouse fits into the picture. Later, you'll be introduced to AWS tools for analyzing data, including those for ad-hoc SQL queries and creating visualizations. In the final chapters, you'll understand how the power of machine learning and artificial intelligence can be used to draw new insights from data. By the end of this AWS book, you'll be able to carry out data engineering tasks and implement a data pipeline on AWS independently. What you will learn

Understand data engineering concepts and emerging technologies  
Ingest streaming data with Amazon Kinesis  
Data Firehose  
Optimize, denormalize, and join datasets with AWS Glue Studio  
Use Amazon S3 events to trigger a Lambda process to transform a file  
Run complex SQL queries on data lake data using Amazon Athena  
Load data into a Redshift data warehouse and run queries  
Create a visualization of your data using Amazon QuickSight  
Extract sentiment data from a dataset using Amazon Comprehend

**Who this book is for**  
This book is for data engineers, data analysts, and data architects who are new to AWS and looking to extend their skills to the AWS cloud. Anyone new to data engineering who wants to learn about the foundational concepts while gaining practical experience with common data engineering services on AWS will also find this book useful. A basic understanding of big data-related topics and Python coding will help you get the most out of this book but it's not a prerequisite. Familiarity with the AWS console and core services will also help you follow along.

**AWS for Developers For Dummies** John Wiley & Sons

**AWS Lambda in Action**

**AWS Cookbook**

**Mastering AWS Security**

**Event-driven serverless applications****Latest AWS Amazon Certified Solutions Architect - Professional SAP-C01 Exam Questions and Answers****Create secure CI/CD pipelines using Chaos and AIOps****Leverage AWS features to build highly secure, fault-tolerant, and scalable cloud environments**

Build, deploy, test, and run cloud-native serverless applications using AWS Lambda and other popular AWS services Key Features Learn how to write, run, and deploy serverless applications in Amazon Web Services Make the most of AWS Lambda functions to build scalable and cost-efficient systems Build and deploy serverless applications with Amazon API Gateway and AWS Lambda functions Book Description Serverless computing is a way to run your code without having to provision or manage servers. Amazon Web Services provides serverless services that you can use to build and deploy cloud-native applications. Starting with the basics of AWS Lambda, this book takes you through combining Lambda with other services from AWS, such as Amazon API Gateway, Amazon DynamoDB, and Amazon Step Functions. You'll learn how to write, run, and test Lambda functions using examples in Node.js, Java, Python, and C# before you move on to developing and deploying serverless APIs efficiently using the Serverless Framework. In the concluding chapters, you'll discover tips and best practices for leveraging Serverless Framework to increase your development productivity. By the end of this book, you'll have become well-versed in building, securing, and running serverless applications using Amazon API Gateway and AWS Lambda without having to manage any servers. What you will learn Understand the core concepts of serverless computing in AWS Create your own AWS Lambda functions and build serverless APIs using Amazon API Gateway Explore best practices for developing serverless applications at scale using Serverless Framework Discover the DevOps patterns in a modern CI/CD pipeline with AWS CodePipeline Build serverless data processing jobs to extract, transform, and load data Enforce resource tagging policies with continuous compliance and AWS Config Create chatbots with natural language understanding to perform automated tasks Who this book is for This AWS book is for cloud architects and developers who want to build and deploy serverless applications using AWS Lambda. A basic understanding of AWS is required to get the most out of this book.

Everything you need to get running with IaaS for Amazon Web Services Modern businesses rely on Infrastructure-as-a-Service (IaaS)—a setup in which someone else foots the bill to create application environments—and developers are expected to know how to write both platform-specific and IaaS-supported applications. If you're a developer who writes desktop and web applications but have little-to-no experience with cloud development, this book is an essential tool in getting started in the IaaS environment with Amazon Web Services. In Amazon Web Services For Developers For Dummies, you'll quickly and easily get up to speed on which language or platform will work best to meet a specific need, how to work with management consoles, ways you'll interact with services at the command line, how to create applications with the AWS API, and so much more. Assess development options to produce the kind of result that's actually needed Use the simplest approach to accomplish any given task Automate tasks using something as simple as the batch processing features offered by most platforms Create example applications using JavaScript, Python, and R Discover how to use the XML files that appear in the management console to fine tune your configuration Making sense of Amazon Web Services doesn't have to be as difficult as it seems—and this book shows you how.

This is the eBook version of the print title. Note that the eBook does not provide access to the practice test software that accompanies the print book. Learn, prepare, and practice for AWS Certified Solutions Architect - Associate (SAA-C01) exam success with this Cert Guide from Pearson IT Certification, a leader in IT Certification learning. Master AWS Certified Solutions Architect - Associate (SAA-C01) exam topics Assess your knowledge with chapter-ending quizzes Review key concepts with exam preparation tasks AWS Certified Solutions Architect - Associate (SAA-C01) Cert Guide is a best-of-breed exam study guide. Best-selling author and expert instructor Anthony Sequeira shares preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. Material is presented in a concise manner, focusing on increasing your understanding and retention of exam topics. The book presents you with an organized test-preparation routine through the use of proven series elements and techniques. Exam topic lists make referencing easy. Chapter-ending Exam Preparation Tasks help you drill on key concepts you must know thoroughly. Review questions help you assess your knowledge, and a final preparation chapter guides you through tools and resources to help you craft your final study plan. Well regarded for its level of detail, assessment features, and challenging review questions and exercises, this study guide helps you master the concepts and techniques that will enable you to succeed on the exam the first time. The study guide helps you master all the topics on the AWS Certified Solutions Architect - Associate exam, including how to · Design resilient architectures that ensure storage high availability while providing for decoupling mechanisms, multitier infrastructure, and high availability · Define performant architectures with efficient storage and databases, caching optimizations, and improved elasticity · Specify secure applications and architectures, encompassing application tiers, data, and networking infrastructure · Design cost-optimized architectures, addressing both storage and compute · Define operationally excellent architectures, and understand their characteristics

Build scalable and production-ready infrastructure in Amazon Web Services with CloudFormation Key FeaturesLeverage AWS CloudFormation templates to manage

your entire infrastructure Get up and running with writing your infrastructure as code and automating your environment Simplify infrastructure management and increase productivity with AWS CloudFormation Book Description DevOps and the cloud revolution have forced software engineers and operations teams to rethink how to manage infrastructures. With this AWS book, you'll understand how you can use Infrastructure as Code (IaC) to simplify IT operations and manage the modern cloud infrastructure effectively with AWS CloudFormation. This comprehensive guide will help you explore AWS CloudFormation from template structures through to developing complex and reusable infrastructure stacks. You'll then delve into validating templates, deploying stacks, and handling deployment failures. The book will also show you how to leverage AWS CodeBuild and CodePipeline to automate resource delivery and apply continuous integration and continuous delivery (CI/CD) practices to the stack. As you advance, you'll learn how to generate templates on the fly using macros and create resources outside AWS with custom resources. Finally, you'll improve the way you manage the modern cloud in AWS by extending CloudFormation using AWS serverless application model (SAM) and AWS cloud development kit (CDK). By the end of this book, you'll have mastered all the major AWS CloudFormation concepts and be able to simplify infrastructure management. What you will learn Understand modern approaches to IaC Develop universal and reusable CloudFormation templates Discover ways to apply continuous delivery with CloudFormation Implement IaC best practices for the AWS Cloud Provision massive applications across multiple regions and accounts Automate template generation and software provisioning for AWS Extend CloudFormation with custom resources and template macros Who this book is for If you are a developer who wants to learn how to write templates, a DevOps engineer interested in deployment and orchestration, or a solutions architect looking to understand the benefits of managing infrastructure with ease, this book is for you. Prior understanding of the AWS Cloud is necessary.

Effectively manage connected devices on the AWS cloud using services such as AWS Greengrass, AWS button, predictive analytics and machine learning Learning AWS IoT

Your comprehensive reference guide to learning about AWS Glue and its features

A beginner's guide to using AWS Lambda, Amazon API Gateway, and services from Amazon Web Services

Implement continuous delivery and integration in the AWS environment, 2nd Edition

AWS Certified Security – Specialty Exam Guide

Implementing AWS: Design, Build, and Manage your Infrastructure

**Reduce the time it takes to get up to speed with Lambda from weeks to an afternoon. This technical manual shows you everything you need to successfully develop and deploy AWS Lambda functions written in Javascript. It covers all necessary topics in one place, complete with code examples and linked projects. The AWS documentation pages are a great place to learn about services, but they are also filled with things that are not relevant, making it hard to get the big picture. This book has all the important parts, based on experience and a lot of trial-and-error. You'll know everything you need in a fraction of time. No fluff or filler text, but plenty of hands-on examples. You'll: \* Understand how the Lambda execution environment works \* Learn how to write Javascript serverless functions \* And walk away with knowledge about debuggers and HTTP APIs I'm an AWS certified security specialist and architect and I've been working with cloud environments for several years now. I've been writing about these topics since 2014 on my blog. With over 150 articles (and counting!), my writing is characterized by the depth of research and a to-the-point style. Who is this book for? Software developers who are familiar with Javascript and have some experience with the AWS cloud. The infrastructure examples are in Terraform, so it's nice to have some prior knowledge of that too. Table of contents Introduction Chapter 1: The Lambda execution model Serverless functions Limits The cost model At-least-once execution Caching in /tmp Cold start Memory Chapter 2: Setup Node versions The Lambda permission model How to define code Inline code File interpolation Adding packages with npm Handler argument Chapter 3: Programming model Async handler Async programming patterns Background tasks Input and output The event object The context object Output The AWS SDK Pagination Environment variables Timeout Cause of timeouts Mitigating timeouts AWS SDK timeouts Promise-based timeout handling Chapter 4: Debugging Logging X-Ray Custom segments Chapter 5: Other topics Storing secrets Using SSM Caching Cache time HTTP API OpenAPI backend Request parameters Special handlers Express backend Build cost-effective and highly scalable Serverless applications using AWS Lambda. About This Book Leverage AWS Lambda to significantly lower your infrastructure costs and deploy out massively scalable, event-driven systems and applications Learn how to design and build Lambda functions using real-world examples and implementation scenarios Explore the Serverless ecosystem with a variety of toolsets and AWS services including DynamoDB, API Gateway, and much more! Who This Book Is For If you are a Cloud administrator and/or developer who wishes to explore, learn, and leverage AWS Lambda to design, build, and deploy Serverless applications in the cloud, then this is the book for you! The book assumes you have some prior knowledge and hands-on experience with AWS core services such as EC2, IAM, S3, along with the knowledge to work with any popular programming language such as Node.js, Java, C#, and so on. What You Will Learn Understand the hype, significance, and business benefits of Serverless computing and applications Plunge into the Serverless world of AWS Lambda and master its core components and how it works Find out how to effectively and efficiently design, develop, and test Lambda functions using Node.js, along with some keen coding insights and best practices Explore best practices to effectively monitor and troubleshoot Serverless applications using AWS CloudWatch and other third-party services in the form of Datadog and Loggly Quickly design and develop Serverless applications by leveraging AWS Lambda, DynamoDB, and API Gateway using the Serverless Application Framework (SAF) and other AWS services such as Step Functions Explore a rich variety of real-world Serverless use cases with Lambda and see how you can apply it to your environments In Detail AWS is recognized as one of the biggest market leaders for cloud computing and why not? It has evolved a lot since the time it started out by providing just basic services such as EC2 and S3 and today; they go all the way from IoT to Machine Learning, Image recognition, Chatbot Frameworks, and much more! One of those recent services that is also gaining a lot of traction is AWS Lambda! Although seemingly simple and easy to use, Lambda is a highly effective and scalable compute service that provides developers with a powerful platform to design and develop Serverless event-driven systems and**

*applications. The book begins with a high-level introduction into the world of Serverless computing and its advantages and use cases, followed by a deep dive into AWS Lambda! You'll learn what services AWS Lambda provides to developers; how to design, write, and test Lambda functions; as well as monitor and troubleshoot them. The book is designed and accompanied with a vast variety of real-world examples, use cases, and code samples that will enable you to get started on your Serverless applications quickly. By the end of the book, you will have gained all the skills required to work with AWS Lambda services! Style and approach This step-by-step guide will help you build Serverless applications and run Serverless workloads using the AWS Lambda service. You'll be able to get started with it in a matter of minutes with easy-to-follow code snippets and examples.*

*Virtual, hands-on learning labs allow you to apply your technical skills in realistic environments. So Sybex has bundled AWS labs from XtremeLabs with our popular AWS Certified SysOps Administrator Study Guide to give you the same experience working in these labs as you prepare for the Certified SysOps Administrator Exam that you would face in a real-life application. These labs in addition to the book are a proven way to prepare for the certification and for work as an AWS SysOps Administrator. This comprehensive book guides readers through the role of a SysOps Administrator and helps prepare candidates to take the updated AWS Certified SysOps Administrator—Associate (SOA-C01) Exam. The AWS Certified SysOps Administrator—Associate certification validates technical expertise in deployment, management, and operations on the AWS platform. This Study Guide not only prepares readers for the AWS exam, but it makes sure the reader is ready to perform the duties expected of SysOps Administrators. The book focuses on the skill-set required of AWS professionals by filling in the gap between test preparation and real-world preparedness. Concepts covered include: Monitoring and Reporting High Availability Deployment and Provisioning Storage and Data Management Security and Compliance Networking Automation and Optimization And More Readers will also have one year of free access to the Sybex interactive online learning environment and test bank, providing a suite of robust study tools including an assessment test, chapter tests, bonus practice exam, electronic flashcards, and a glossary of key terms. And with this edition you also get XtremeLabs virtual labs that run from your browser. The registration code is included with the book and gives you 6 months unlimited access to XtremeLabs AWS Certified SysOps Administrator Labs with 6 unique lab modules based on the book.*

*Running your systems in the cloud doesn't automatically make them secure. Learn the tools and new management approaches you need to create secure apps and infrastructure on AWS. In AWS Security you'll learn how to: Securely grant access to AWS resources to coworkers and customers Develop policies for ensuring proper access controls Lock-down network controls using VPCs Record audit logs and use them to identify attacks Track and assess the security of an AWS account Counter common attacks and vulnerabilities Written by security engineer Dylan Shields, AWS Security provides comprehensive coverage on the key tools and concepts you can use to defend AWS-based systems. You'll learn how to honestly assess your existing security protocols, protect against the most common attacks on cloud applications, and apply best practices to configuring identity and access management and virtual private clouds. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology AWS provides a suite of strong security services, but it's up to you to configure them correctly for your applications and data. Cloud platforms require you to learn new techniques for identity management, authentication, monitoring, and other key security practices. This book gives you everything you'll need to defend your AWS-based applications from the most common threats facing your business. About the book AWS Security is the guide to AWS security services you'll want on hand when you're facing any cloud security problem. Because it's organized around the most important security tasks, you'll quickly find best practices for data protection, auditing, incident response, and more. As you go, you'll explore several insecure applications, deconstruct the exploits used to attack them, and learn how to react with confidence. What's inside Develop policies for proper access control Securely assign access to AWS resources Lock-down network controls using VPCs Record audit logs and use them to identify attacks Track and assess the security of an AWS account About the reader For software and security engineers building and securing AWS applications. About the author Dylan Shields is a software engineer working on Quantum Computing at Amazon. Dylan was one of the first engineers on the AWS Security Hub team. Table of Contents 1 Introduction to AWS security 2 Identity and access management 3 Managing accounts 4 Policies and procedures for secure access 5 Securing the network: The virtual private cloud 6 Network access protection beyond the VPC 7 Protecting data in the cloud 8 Logging and audit trails 9 Continuous monitoring 10 Incident response and remediation 11 Securing a real-world application*

*Associate (SAA-C01) Exam*

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