

# Amazon Aws Documentation

Summary Serverless Architectures on AWS teaches you how to build, secure and manage serverless architectures that can power the most demanding web and mobile apps. Forewords by Patrick Debois (Founder of devopsdays) and Dr. Donald F. Ferguson (Columbia University). Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning

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Publications. About the Technology  
There's a shift underway toward  
serverless cloud architectures. With  
the release of serverless computer  
technologies such as AWS Lambda,  
developers are now building entirely  
serverless platforms at scale. In these  
new architectures, traditional back-end  
servers are replaced with cloud  
functions acting as discrete single-  
purpose services. By composing and  
combining these serverless cloud

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functions together in a loose orchestration and adopting useful third-party services, developers can create powerful yet easy-to-understand applications. About the Book Serverless Architectures on AWS teaches you how to build, secure, and manage serverless architectures that can power the most demanding web and mobile apps. You'll get going quickly with this book's ready-made real-world examples, code snippets, diagrams, and descriptions of

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architectures that can be readily applied. By the end, you'll be able to architect and build your own serverless applications on AWS. What's Inside

First steps with serverless computing  
Important patterns and architectures  
Writing AWS Lambda functions and using the API Gateway  
Composing serverless applications using key services like Auth0 and Firebase  
Securing, deploying, and managing serverless architectures  
About the Reader This book is for

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software developers interested in back end technologies. Experience with JavaScript (node.js) and AWS is useful but not required. About the Author Dr. Peter Sbarski is a well-known AWS expert, VP of engineering at A Cloud Guru, and head of Serverlessconf. Table of Contents PART 1 - FIRST STEPS Going serverless Architectures and patterns Building a serverless application Setting up your cloud PART 2 - CORE IDEAS Authentication and authorization

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Lambda the orchestrator API Gateway  
PART 3 - GROWING YOUR ARCHITECTURE  
Storage Database Going the last mile  
APPENDIXES Services for your serverless  
architecture Installation and setup  
More about authentication and  
authorization Lambda insider Models and  
mapping

This book is designed as an Ubuntu  
20.04 LTS Server administration and  
reference source, covering the Ubuntu  
servers and their support applications.

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Server tools are covered as well as the underlying configuration files and system implementations. The emphasis is on what administrators will need to know to perform key server support and management tasks. Coverage of the systemd service management system is integrated into the book. Topics covered include software management, systemd service management, systemd-networkd and Netplan network configuration, AppArmor security,

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OpenSSH, the Chrony time server, and Ubuntu cloud services. Key servers are examined, including Web, FTP, CUPS printing, NFS, and Samba Windows shares. Network support servers and applications covered include the Squid proxy server, the Domain Name System (BIND) server, DHCP, distributed network file systems, IPTables firewalls, and cloud computing. This timely volume provides a review of the state-of-the-art frameworks and

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methodologies for connecting diverse objects and devices according to the vision for an Internet of Things (IoT). A specific focus is placed on the communication, security, and privacy aspects of device connectivity in distributed environments. Insights and case studies are provided by an authoritative selection of contributors of international repute into the latest research advances and practical approaches with respect to the

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connectivity of heterogeneous smart and sensory devices. Topics and features: Examines aspects of device connectivity within the IoT Presents a resource-based architecture for IoT, and proposes a resource management framework for corporate device clouds Reviews integration approaches for the IoT environment, and discusses performance optimization of intelligent home networks Introduces a novel solution for interoperable data

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management in multi-clouds, and suggests an approach that addresses the debate over network neutrality in the IoT Describes issues of data security, privacy, access control, and authentication in the distributed IoT environment Reviews the evolution of VANETs in relation to the Internet of Vehicles, and provides a perspective on developing smart sustainable cities This invaluable text/reference will be of great benefit to a broad audience,

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from students and researchers interested in the IoT vision, to practicing communication engineers and network security specialists.

Rails is a robust, flexible development platform that lets you build complex websites quickly. Major websites like GitHub, Hulu, and Twitter have run Rails under the hood, and if you know just enough HTML and CSS to be dangerous, Rails Crash Course will teach you to harness Rails for your own

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projects and create web applications that are fast, stable, and secure. In Part I, you'll learn Ruby and Rails fundamentals and then dive straight into models, controllers, views, and deployment. As you work through the basics, you'll learn how to:

- Craft persistent models with Active Record
- Build view templates with Embedded Ruby
- Use Git to roll back to previous versions of your code base
- Deploy applications to Heroku

In Part II,

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you'll take your skills to the next level as you build a social networking app with more advanced Ruby tools, such as modules and metaprogramming, and advanced data modeling techniques within Rails's Active Record. You'll learn how to:

- Implement an authentication system to identify authorized users
- Write your own automated tests and refactor your code with confidence
- Maximize performance with the asset pipeline and turbolinks

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-Secure your app against SQL injection and cross-site scripting -Set up a server and deploy applications with Capistrano Each chapter is packed with hands-on examples and exercises to reinforce what you've learned. Whether you're completely new to Ruby or you've been mucking around for a bit, Rails Crash Course will take you from the basics to shipping your first Rails application, fast.

Foreword by Werner Vogels, Vice

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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.

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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

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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,

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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

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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.

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Building Serverless Python Apps Using  
FastAPI and AWS

AWS Certified Cloud Practitioner Study  
Guide with Online Labs

High-Performance Big Data Computing  
AWS Certified Data Analytics Study  
Guide with Online Labs

AWS Solutions Architect Exam Practice  
Questions and dumps with explanations  
Exam SAA-C01

AWS Certified Solutions Architect Study  
Guide with Online Labs

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Pro PowerShell for Amazon Web Services is written specifically for Windows professionals who already know PowerShell and want to learn to host Windows workloads in the Amazon Elastic Cloud Compute (EC2) cloud service. The cloud offers information technology workers significant cost savings and agility unimaginable even just a few years ago. Tasks that traditionally took weeks of work, costing thousands of dollars, can be completed in minutes for a fraction of a

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penny. This book is a resource for using Microsoft's powerful scripting language, PowerShell, to create, host, manage, and administer workloads using a service widely recognized as the industry leader in cloud computing. Inside, find scripts to create and manage virtual machines, provision storage, configure networks with agility, and more--all using your preferred Windows scripting language. Use your PowerShell knowledge to harness the power of Amazon EC2 today! What you'll learn

Create, manage, and

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terminate Windows servers in the cloud  
Manage storage options including backup and recovery  
Configure a virtual network including subnets and route tables  
Secure your servers using security groups and access control lists  
Use Auto Scaling to respond to changing conditions  
Deploy SQL Server using Relational Database Service  
Use Simple Storage Service (S3) to reliably store and archive data  
Control access to resources using Identity and Access Management (IAM)  
Who this book is for  
Pro PowerShell for Amazon Web Services is for the

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intermediate to advanced Windows professional who is ready to make the leap to the Amazon cloud. Table of Contents Chapter 1 AWS Architecture Overview Chapter 2 Getting Started Chapter 3 Basic Instance Management Chapter 4 Elastic Block Storage Chapter 5 Virtual Private Cloud Chapter 6 Advanced Instance Management Chapter 7 Amazon Machine Images Chapter 8 Monitoring and High Availability Chapter 9 Relational Database Service Chapter 10 Simple Storage Service Chapter 11 Identity and Access

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Management Chapter 12 Glossary of Terms  
Chapter 13 Metadata URL Structure Chapter  
14 List of Filters by EC2 Command Chapter 15  
List of API Methods by Command Chapter 16  
CloudWatch Metrics and Dimensions Chapter  
17 SQL Server RDS Parameters

Building on the success of its storefront and fulfillment services, Amazon now allows businesses to "rent" computing power, data storage and bandwidth on its vast network platform. This book demonstrates how developers working with small- to mid-sized

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companies can take advantage of Amazon Web Services (AWS) such as the Simple Storage Service (S3), Elastic Compute Cloud (EC2), Simple Queue Service (SQS), Flexible Payments Service (FPS), and SimpleDB to build web-scale business applications. With AWS, Amazon offers a new paradigm for IT infrastructure: use what you need, as you need it, and pay as you go. Programming Amazon Web Services explains how you can access Amazon's open APIs to store and run applications, rather than spend precious time

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and resources building your own. With this book, you'll learn all the technical details you need to: Store and retrieve any amount of data using application servers, unlimited data storage, and bandwidth with the Amazon S3 service Buy computing time using Amazon EC2's interface to requisition machines, load them with an application environment, manage access permissions, and run your image using as many or few systems as needed Use Amazon's web-scale messaging infrastructure to store messages as they

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travel between computers with Amazon SQS  
Leverage the Amazon FPS service to structure  
payment instructions and allow the movement  
of money between any two entities, humans  
or computers Create and store multiple data  
sets, query your data easily, and return the  
results using Amazon SimpleDB. Scale up or  
down at a moment's notice, using these  
services to employ as much time and space  
as you need Whether you're starting a new  
online business, need to ramp up existing  
services, or require an offsite backup for your

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home, Programming Amazon Web Services gives you the background and the practical knowledge you need to start using AWS. Other books explain how to build web services. This book teaches businesses how to take make use of existing services from an established technology leader.

Introduces the topic of cloud computing with an emphasis on the trustworthiness of cloud computing systems and services This book describes the scientific basis of cloud computing, explaining the ideas, principles,

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and architectures of cloud computing as well the different types of clouds and the services they provide. The text reviews several cloud computing platforms, including Microsoft Azure, Amazon, Oracle, Google, HP, IBM, Salesforce, and Kaavo. The author addresses the problem of trustworthiness in cloud computing and provides methods to improve the security and privacy of cloud applications. The end-of-chapter exercises and supplementary material on the book's companion website will allow readers to grasp

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the introductory and advanced level concepts of cloud computing. Examines cloud computing platforms such as Microsoft Azure, Amazon, Oracle, Google, HP, IBM, Salesforce, and Kaavo Analyzes the use of aspect-oriented programming (AOP) for refactoring cloud services and improving the security and privacy of cloud applications Contains practical examples of cloud computing, test questions, and end-of-chapter exercises Includes presentations, examples of cloud projects and other teaching resources at the

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author's website

(<http://www.vladimirsafonov.org/cloud>)

Trustworthy Cloud Computing is written for advanced undergraduate and graduate students in computer science, data science, and computer engineering as well as software engineers, system architects, system managers, and software developers new to cloud computing.

Get to grips with the fundamentals of cloud security and prepare for the AWS Security Specialty exam with the help of this

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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

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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

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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

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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

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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.

There are varying ways one can pursue starting a new or converting an existing project to a Serverless architecture. One of the many arguments heard is that developers typically don't know where to begin. This book is intended for those seeking to leverage a Serverless set up with a FastAPI project. This

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book provides a step-by-step guide for building Python APIs on AWS using FastAPI, AWS CDK, GraphQL, and more! It aims to solve one of the more predominant causes of delaying the transition to Serverless by providing engineers with an outline of where to begin on their Serverless journey. Code samples are provided to demonstrate several avenues that can be taken as well as some housekeeping items like formatting and building the continuous integration and delivery pipeline. Readers also get end-of-

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chapter quizzes, cheat sheets, and access to the full source code from the examples in this book.

Gain expertise in the art of deploying, configuring, managing, and troubleshooting

Ubuntu Server, 3rd Edition

Associate SAA-C02 Exam

Disruptive Cloud Computing and IT

AWS Certified SysOps Administrator Study Guide

Administration and Reference

DevOps for the AWS Cloud

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### Create and maintain a secure cloud ecosystem

There are varying ways one can pursue starting a new or converting an existing project to a Serverless architecture. One of the many arguments heard is that developers typically don't know where to begin. This book is intended for those seeking to leverage the Serverless Framework with a project written in Node.js. Expanding on the AWS Serverless App tutorial series, this book provides a

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step-by-step guide for building Node.js Serverless projects on AWS. It aims to solve one of the more predominant causes of delaying the transition to Serverless by providing engineers with an outline of where to begin on their Serverless journey. Example projects are provided to demonstrate several avenues that can be taken as well as some housekeeping items like formatting and building the continuous integration and delivery pipeline. Readers also get end-of-chapter quizzes, cheat sheets, and access to the

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full source code from the examples in this book.

Design scalable big data solutions using Hadoop, Spark, and AWS cloud native services

**Key Features**

- Build data pipelines that require distributed processing capabilities on a large volume of data
- Discover the security features of EMR such as data protection and granular permission management
- Explore best practices and optimization techniques for building data analytics solutions in Amazon EMR

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formerly Amazon Elastic MapReduce, provides a managed Hadoop cluster in Amazon Web Services (AWS) that you can use to implement batch or streaming data pipelines. By gaining expertise in Amazon EMR, you can design and implement data analytics pipelines with persistent or transient EMR clusters in AWS. This book is a practical guide to Amazon EMR for building data pipelines. You'll start by understanding the Amazon EMR architecture, cluster nodes, features, and deployment options, along with their pricing. Next,

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the book covers the various big data applications that EMR supports. You'll then focus on the advanced configuration of EMR applications, hardware, networking, security, troubleshooting, logging, and the different SDKs and APIs it provides. Later chapters will show you how to implement common Amazon EMR use cases, including batch ETL with Spark, real-time streaming with Spark Streaming, and handling UPSERT in S3 Data Lake with Apache Hudi. Finally, you'll orchestrate your EMR jobs and strategize on-premises

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Hadoop cluster migration to EMR. In addition to this, you'll explore best practices and cost optimization techniques while implementing your data analytics pipeline in EMR. By the end of this book, you'll be able to build and deploy Hadoop- or Spark-based apps on Amazon EMR and also migrate your existing on-premises Hadoop workloads to AWS. What you will learn

Explore Amazon EMR features, architecture, Hadoop interfaces, and EMR Studio

Configure, deploy, and orchestrate Hadoop or Spark jobs in

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productionImplement the security, data governance, and monitoring capabilities of EMRBuild applications for batch and real-time streaming data analytics solutionsPerform interactive development with a persistent EMR cluster and NotebookOrchestrate an EMR Spark job using AWS Step Functions and Apache AirflowWho this book is for This book is for data engineers, data analysts, data scientists, and solution architects who are interested in building data analytics solutions with the Hadoop ecosystem services and Amazon

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EMR. Prior experience in either Python programming, Scala, or the Java programming language and a basic understanding of Hadoop and AWS will help you make the most out of this book.

This is the third edition of the bestselling one-stop resource for sysadmins and DevOps professionals to learn, configure and use Ubuntu 20.04 for their day-to-day operations and deployments. Key FeaturesA hands-on book that will teach you how to deploy, maintain and troubleshoot Ubuntu

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ServerLearn to leverage the improved performance and security-related aspects of Ubuntu Server 20.04 LTSNew chapters dedicated to exploring Ubuntu for cloudBook Description Ubuntu Server has taken data centers around the world by storm. Whether you're deploying Ubuntu for a large-scale project or for a small office, it is a stable, customizable, and powerful Linux distribution with innovative and cutting-edge features. For both simple and complex server deployments, Ubuntu's flexible nature can

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be easily adapted to meet to the needs of your organization. This third edition is updated to cover the advancements of Ubuntu 20.04 LTS and further train you to understand how to use Ubuntu Server, from initial deployment to creating production-ready resources for your network. The book begins with the concepts of user management, group management, and file system permissions. Continuing into managing storage volumes, you will learn how to format storage devices, utilize logical volume management, and monitor

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disk usage. Later, you will learn how to virtualize hosts and applications, which will include setting up QEMU & KVM, as well as containerization with both Docker and LXD. As the book continues, you will learn how to automate configuration with Ansible, as well as take a look at writing scripts. Lastly, you will explore best practices and troubleshooting techniques when working with Ubuntu Server that are applicable to real-world scenarios. By the end of this Ubuntu Server book, you will be well-versed in Ubuntu server's advanced

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concepts and attain the required proficiency needed for Ubuntu Server administration. What you will learnManage users, groups, and permissionsOptimize the performance of system resourcesPerform disk encryption and decryption with Linux Unified Key Setup (LUKS)Set up Secure Shell (SSH) for remote access, and connect it to other nodesShare directories using Samba and Network File System (NFS)Get familiar with scripting to improve command-line efficiencyConfigure VMs, containers, and orchestrate with MicroK8s and

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KubernetesAutomate server deployments with Ansible and cloud server deployments with TerraformWho this book is for The book is written to cater to sysadmins and DevOps professionals whose teams are planning to employ an Ubuntu/Linux environment for their development needs. Prior knowledge of Ubuntu is not required. However, it is assumed that you possess some IT admin, Linux, and shell scripting experience. Comprehensive, interactive exam preparation and so much more The AWS Certified SysOps Administrator Official

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Study Guide: Associate Exam is a comprehensive exam preparation resource. This book bridges the gap between exam preparation and real-world readiness, covering exam objectives while guiding you through hands-on exercises based on situations you'll likely encounter as an AWS Certified SysOps Administrator. From deployment, management, and operations to migration, data flow, cost control, and beyond, this guide will help you internalize the processes and best practices associated with AWS. The Sybex

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interactive online study environment gives you access to invaluable preparation aids, including an assessment test that helps you focus your study on areas most in need of review, and chapter tests to help you gauge your mastery of the material.

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

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Administrator - Associate credential shows that you have technical expertise in deployment, management, and operations on AWS. Study exam objectives Gain practical experience with hands-on exercises Apply your skills to real-world scenarios Test your understanding with challenging review questions Earning your AWS Certification is much more than just passing an exam—you must be able to perform the duties expected of an AWS Certified SysOps Administrator in a real-world setting. This book does more than coach you through

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the test: it trains you in the tools, procedures, and thought processes to get the job done well. If you're serious about validating your expertise and working at a higher level, the AWS Certified SysOps Administrator Official Study Guide: Associate Exam is the resource you've been seeking.

Trustworthy Cloud Computing John Wiley & Sons

Serverless Architectures on AWS

Associate Exam

Associate (DVA-C01) Exam

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Mastering Ubuntu Server

A Brief Guide on Where to Start

AWS Certified Developer Official Study  
Guide, Associate Exam

Associate (SOA-C01) Exam

*“As an author, editor, and publisher, I never paid much attention to the competition—except in a few cases. This is one of those cases. The UNIX System Administration Handbook is one of the few books we ever measured ourselves against.” —Tim O’Reilly, founder of O’Reilly Media “This edition is for those whose systems live in the cloud or in*

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*virtualized data centers; those whose administrative work largely takes the form of automation and configuration source code; those who collaborate closely with developers, network engineers, compliance officers, and all the other worker bees who inhabit the modern hive.” —Paul Vixie, Internet Hall of Fame-recognized innovator and founder of ISC and Farsight Security “This book is fun and functional as a desktop reference. If you use UNIX and Linux systems, you need this book in your short-reach library. It covers a bit of the systems’ history but doesn’t bloviate. It’s just*

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*straight-forward information delivered in a colorful and memorable fashion.” —Jason A. Nunnelley*  
*UNIX® and Linux® System Administration Handbook, Fifth Edition, is today’s definitive guide to installing, configuring, and maintaining any UNIX or Linux system, including systems that supply core Internet and cloud infrastructure. Updated for new distributions and cloud environments, this comprehensive guide covers best practices for every facet of system administration, including storage management, network design and administration, security, web hosting, automation,*

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*configuration management, performance analysis, virtualization, DNS, security, and the management of IT service organizations. The authors—world-class, hands-on technologists—offer indispensable new coverage of cloud platforms, the DevOps philosophy, continuous deployment, containerization, monitoring, and many other essential topics. Whatever your role in running systems and networks built on UNIX or Linux, this conversational, well-written guide will improve your efficiency and help solve your knottiest problems.*

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*The third international conference on INformation Systems Design and Intelligent Applications (INDIA - 2016) held in Visakhapatnam, India during January 8-9, 2016. The book covers all aspects of information system design, computer science and technology, general sciences, and educational research. Upon a double blind review process, a number of high quality papers are selected and collected in the book, which is composed of three different volumes, and covers a variety of topics, including natural language processing, artificial intelligence, security and privacy, communications,*

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*wireless and sensor networks, microelectronics, circuit and systems, machine learning, soft computing, mobile computing and applications, cloud computing, software engineering, graphics and image processing, rural engineering, e-commerce, e-governance, business computing, molecular computing, nano-computing, chemical computing, intelligent computing for GIS and remote sensing, bio-informatics and bio-computing. These fields are not only limited to computer researchers but also include mathematics, chemistry, biology, bio-chemistry, engineering,*

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*statistics, and all others in which computer techniques may assist.*

*Run Docker on AWS and build real-world, secure, and scalable container platforms on cloud*  
*Key Features*  
*Configure Docker for the ECS environment*  
*Integrate Docker with different AWS tools*  
*Implement container networking and deployment at scale*  
*Book Description*  
*Over the last few years, Docker has been the gold standard for building and distributing container applications. Amazon Web Services (AWS) is a leader in public cloud computing, and was the first to offer a managed*

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*container platform in the form of the Elastic Container Service (ECS). Docker on Amazon Web Services starts with the basics of containers, Docker, and AWS, before teaching you how to install Docker on your local machine and establish access to your AWS account. You'll then dig deeper into the ECS, a native container management platform provided by AWS that simplifies management and operation of your Docker clusters and applications for no additional cost. Once you have got to grips with the basics, you'll solve key operational challenges, including secrets*

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*management and auto-scaling your infrastructure and applications. You'll explore alternative strategies for deploying and running your Docker applications on AWS, including Fargate and ECS Service Discovery, Elastic Beanstalk, Docker Swarm and Elastic Kubernetes Service (EKS). In addition to this, there will be a strong focus on adopting an Infrastructure as Code (IaC) approach using AWS CloudFormation. By the end of this book, you'll not only understand how to run Docker on AWS, but also be able to build real-world, secure, and scalable container platforms in the cloud. What you*

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*will learn Build, deploy, and operate Docker applications using AWS Solve key operational challenges, such as secrets management Exploit the powerful capabilities and tight integration of other AWS services Design and operate Docker applications running on ECS Deploy Docker applications quickly, consistently, and reliably using IaC Manage and operate Docker clusters and applications for no additional cost Who this book is for Docker on Amazon Web Services is for you if you want to build, deploy, and operate applications using the power of containers, Docker, and Amazon*

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*Web Services. Basic understanding of containers and Amazon Web Services or any other cloud provider will be helpful, although no previous experience of working with these is required. 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*

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*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*

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*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*

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*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*

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*on data lake data using Amazon AthenaLoad data into a Redshift data warehouse and run queriesCreate a visualization of your data using Amazon QuickSightExtract sentiment data from a dataset using Amazon ComprehendWho 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*

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*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.*

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*and peek into the serverless cloud offerings from Azure, Google Cloud, and IBM Cloud Key Features Build serverless applications with AWS Lambda, AWS CloudFormation and AWS CloudWatch Perform data analytics and natural language processing(NLP) on the AWS serverless platform Explore various design patterns and best practices involved in serverless computing Book Description Managing physical servers will be a thing of the past once you're able to harness the power of serverless computing. If you're already prepped with the basics of serverless computing, Serverless Programming Cookbook will help you take the next step ahead. This recipe-based guide provides solutions to problems you might face while building serverless applications. You'll begin by setting up Amazon Web Services (AWS), the primary cloud provider used for most recipes. The next*

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*set of recipes will cover various components to build a Serverless application including REST APIs, database, user management, authentication, web hosting, domain registration, DNS management, CDN, messaging, notifications and monitoring. The book also introduces you to the latest technology trends such as Data Streams, Machine Learning and NLP. You will also see patterns and practices for using various services in a real world application. Finally, to broaden your understanding of Serverless computing, you'll also cover getting started guides for other cloud providers such as Azure, Google Cloud Platform and IBM cloud. By the end of this book, you'll have acquired the skills you need to build serverless applications efficiently using various cloud offerings. What you will learn Serverless computing in AWS and explore services with other clouds Develop full-stack apps with API*

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*Gateway, Cognito, Lambda and DynamoDB Web hosting with S3, CloudFront, Route 53 and AWS Certificate Manager SQS and SNS for effective communication between microservices Monitoring and troubleshooting with CloudWatch logs and metrics Explore Kinesis Streams, Amazon ML models and Alexa Skills Kit Who this book is for For developers looking for practical solutions to common problems while building a serverless application, this book provides helpful recipes. To get started with this intermediate-level book, knowledge of basic programming is a must.*

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

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