Cloud Computing Aws

Michael Wittig,Andreas Wittig

Cloud Computing Aws:

AWS Certified Cloud Practitioner Exam Guide Rajesh Daswani,2022-01-13 Develop proficiency in AWS technologies and validate your skills by becoming an AWS Certified Cloud Practitioner Key FeaturesDevelop the skills to design highly available and fault tolerant solutions in the cloudLearn how to adopt best practice security measures in your cloud applicationsAchieve credibility through industry recognized AWS Cloud Practitioner certificationBook Description Amazon Web Services is the largest cloud computing service provider in the world Its foundational certification AWS Certified Cloud Practitioner CLF C01 is the first step to fast tracking your career in cloud computing This certification will add value even to those in non IT roles including professionals from sales legal and finance who may be working with cloud computing or AWS projects If you are a seasoned IT professional this certification will make it easier for you to prepare for more technical certifications to progress up the AWS ladder and improve your career prospects The book is divided into four parts The first part focuses on the fundamentals of cloud computing and the AWS global infrastructure The second part examines key AWS technology services including compute network storage and database services The third part covers AWS security the shared responsibility model and several security tools In the final part you ll study the fundamentals of cloud economics and AWS pricing models and billing practices Complete with exercises that highlight best practices for designing solutions detailed use cases for each of the AWS services quizzes and two complete practice tests this CLF C01 exam study guide will help you gain the knowledge and hands on experience necessary to ace the AWS Certified Cloud Practitioner exam What you will learnCreate an AWS account to access AWS cloud services in a secure and isolated environmentUnderstand identity and access management IAM encryption and multifactor authentication MFA protectionConfigure multifactor authentication for your IAM accountsConfigure AWS services such as EC2 ECS Lambda VPCs and Route53Explore various storage and database services such as S3 EBS and Amazon RDSStudy the fundamentals of modern application design to shift from a monolithic to microservices architectureDesign highly available solutions with decoupling ingrained in your design architectureWho this book is for If you re looking to advance your career and gain expertise in cloud computing with particular focus on the AWS platform this book is for you This guide will help you ace the AWS Certified Cloud Practitioner Certification exam enabling you to embark on a rewarding career in cloud computing No previous IT experience is essential to get started with this book since it covers core IT fundamentals from the ground up   *Designing AWS Environments* Mitesh Soni,Wayde Gilchrist,2018-09-29 Design and create robust and resilient distributed solutions with AWS Key FeaturesDesign and secure virtual private network environments on the AWS cloudDeploy appropriate instance types and sizes based on performance and cost requirementsGain proficiency and confidence when designing virtual cloud environmentsBook Description Amazon Web Services AWS provides trusted cloud based solutions to help you meet your business needs Running your solutions in the AWS Cloud can help you get your applications up and running faster while

providing the security to meet your compliance requirements This book begins by familiarizing you with the key capabilities to architect and host applications websites and services on AWS We explain the available options for AWS free tier with virtual instances and demonstrate how you can launch and connect them Using practical examples you ll be able to design and deploy networking and hosting solutions for large deployments Finally the book focuses on security and important elements of scalability and high availability using AWS VPC Elastic Load Balancing and Auto scaling By the end of this book you will have handson experience of working with AWS instances VPC Elastic Load Balancing and Auto scalingrelated tasks on Amazon Web Services What you will learnEstablish how to launch EC2 instances and log inWork with Linux and Windows instancesUnderstand Amazon VPC networking creation with and without a wizardDesign create and secure a Virtual Private CloudAutoscale instances based on the increase and decrease in trafficDeploy applications in a highly available and fault tolerant mannerLoad balance the requests with Elastic Load BalancingMake your applications highly available through load balancing multi AZ deployments and auto scalingWho this book is for This book is for new and aspiring individuals who are preparing or gearing up for a solutions architect role You ll also find this useful if you re an IT professional such as beginners cloud architects and cloud solution providers or DevOps engineer who is preparing to design and deploy large solutions on AWS No experience with AWS is required   *AWS* Raoul Alongi,2020-12-11 Struggling to come to grips with cloud technology Amazon Web Services offer on demand cloud services created with customer satisfaction in mind AWS is one of the best cloud services out there but starting the tech can be tricky if you don t have the right guide This book was written exactly for anyone wanting to use cloud systems in their place of work for the first time It s one of the only books on the market that holds your hand and guides you step by step to setting up Amazon Web Services for yourself You won t get this quality of cloud computing information anywhere else It gets straight to the point allowing you get finished with setting up the ground breaking technology FASTER No hype No fuss Just pure value This amazing book will cover Fundamentals of cloud computing Basic terminologies for the AWS cloud platform Cloud computing security VERY IMPORTANT for businesses Basics of SaaS PaaS IaaS cloud computing services Cloud computing development models Mobile Services with AWS Amplify Pinpoint and AWS AppSync Network and Content Delivery Developer tools such as AWS Code Commit and AWS X Ray Management tools such as Cloud Formation and AWS control tower Using managed Blockchain for Amazon Quantum Ledger Databases QLDB Security Identity and compliance Business applications such as Alexa Amazon Chime and Toll video conferencing Cost Management Often Overlooked Desktop and App streaming Which one is better Artificial intelligence or Machine Learning Game Dev Fantastic for Indie Developers Internet of things IOT And so much more Finally you will be able to effectively utilise the resource that is AWS cloud services in record time and you ll have fun along the way

Implementing Cloud Design Patterns for AWS Marcus Young,2015-04-29 This book is aimed at architects solution providers and those of the DevOps community who are looking to implement repeatable patterns for deploying and

maintaining services in the Amazon cloud infrastructure Prior experience using AWS is required as the book focuses more on the patterns and not on the basics of using AWS *Practical AWS Networking* Mitesh Soni,2018-01-04 Your one step guide to learn all about AWS networking Key Features Master your networking skills on Public Cloud Gain hands on experience of using Amazon VPC Elastic Load Balancing Direct Connect and other AWS products Implement troubleshooting skills and best practices for security on AWS network Book Description Amazon Web Services AWS dominates the public cloud market by a huge margin and continues to be the first choice for many organizations Networking has been an area of focus for all the leading cloud service providers AWS has a suite of network related products which help in performing network related task on AWS This book initially covers the basics of networking in AWS Then we use AWS VPC to create an isolated virtual cloud for performing network related tasks We then provide an overview of AWS Direct Connect after taking a deep dive into scalability and load balancing using the auto scaling feature Elastic Load Balancing and Amazon Route S3 Toward the end of the book we cover troubleshooting tips and security best practices for your network By the end of this book you will have hands on experience of working with network tasks on AWS What you will learn Overview of all networking services available in AWS Gain work with load balance applications across different regions Learn auto scale instances based on increases and decreases in traffic Deploy applications in a highly available and fault tolerant manner Configure Route 53 for a web application Troubleshooting tips and best practices Who this book is for This book is for cloud architects cloud solution providers or any stakeholders dealing with networking on AWS Cloud A prior idea of Amazon Web Services will be an added advantage **Amazon Web Services For Dummies** Bernard Golden,2013-08-09 Create dynamic cloud based websites with Amazon Web Services and this friendly guide As the largest cloud computing platform in the world Amazon Web Services AWS provides one of the most popular web services options available This easy to understand guide is the perfect introduction to the Amazon Web Services platform and all it can do for you You ll learn about the Amazon Web Services tool set how different web services including S3 Amazon EC2 and Amazon Flexible Payments and Glacier work and how you can implement AWS in your organization Explains how to use Amazon Web Services to store objects take payments manage large quantities of data send e mails deploy push notifications and more from your website Details how AWS can reduce costs improve efficiency increase productivity and cut down on expensive hardware investments and administrative headaches in your organization Includes practical examples and helpful step by step lists to help you experiment with different AWS features and create a robust website that meets your needs Amazon Web Services For Dummies is exactly what you need to get your head in the cloud with Amazon Web Services **Transforming Your Business with AWS** Philippe Abdoulaye,2021-10-06 Expert guidance on how to use Amazon Web Services to supercharge your digital services business In Transforming Your Business with AWS Getting the Most Out of Using AWS to Modernize and Innovate Your Digital Services renowned international consultant and sought after speaker Philippe Abdoulaye delivers a practical and accessible guide to

using Amazon Web Services to modernize your business and the digital services you offer This book provides you with a concrete action plan to build a team capable of creating world class digital services and long term competitive advantages You ll discover what separates merely average digital service organizations from the truly outstanding as well as how moving to the cloud will enable your business to deliver your services faster better and more efficiently This book also includes A comprehensive overview of building industry leading digital service delivery capabilities including discussions of the development lifecycle best practices and AWS based development infrastructure Explanations of how to implement a digital business transformation strategy An exploration of key roles like DevOps Continuous Delivery Continuous Deployment Continuous Integration Automation and DevSecOps Hands on treatments of AWS application management tools including Elastic Beanstalk CodeDeploy and CodePipeline Perfect for executives managers and other business leaders attempting to clarify and implement their organization s digital vision and strategy Transforming Your Business with AWS is a must read reference that answers the why and most importantly the how of digital transformation with Amazon Web Services

    Amazon Web Services in Action Michael Wittig,Andreas Wittig,2018-05 The largest and most mature of the cloud platforms AWS offers over 100 prebuilt services practically limitless compute resources bottomless secure storage as well as top notch automation capabilities This book shows you how to develop host and manage applications on AWS Amazon Web Services in Action Second Edition is a comprehensive introduction to deploying web applications in the AWS cloud You ll find clear relevant coverage of all essential AWS services with a focus on automation security high availability and scalability This thoroughly revised edition covers the latest additions to AWS including serverless infrastructure with AWS Lambda sharing data with EFS and in memory storage with ElastiCache Back cover   *Amazon Cloud Computing with Java* Aditya Yadav,2010 Amazon Cloud Computing With Java provides A comprehensive look at the emerging Amazon Web Services Platform and a peep into the emerging paradigm of cloud computing from the perspective of the leading Cloud vendors offerings It will enable you to plan migration efforts from enterprise softwares to ones operating from the cloud The book is technical in nature and walks the reader through development of tools and programs which work with AWS The book is accompanied by the complete source code to the excercises covered in the book which can be downloaded from the authors website A no fluff just stuff approach to utilizing AWS Amazon Cloud Computing With Java covers EC2 CloudWatch Elastic LoadBalancing AutoScaling S3 Virtual Private Cloud SimpleDB RDS CloudFront SQS Elastic MapReduce Agile Continous Integration with AWS Using Eclipse For AWS Development   **AWS Administration – The Definitive Guide** Yohan Wadia,2016-02-12 Learn to design build and manage your infrastructure on the most popular of all the Cloud platforms Amazon Web Services About This Book Learn how to leverage various Amazon Web Services AWS components and services to build a secure reliable and robust environment to host your applications on Deep dive into the core AWS service offerings with hands on tutorials real world use case scenarios and best practices A self paced systematic and step by step guide to

learning and implementing AWS in your own environment Who This Book Is For This book is for those who want to learn and leverage AWS Although no prior experience with AWS is required it is recommended that you have some hands on experienceofLinux Web Services and basic networking What You Will Learn A brief introduction to Cloud Computing and AWS accompanied by steps to sign up for your first AWS account Create and manage users groups and permissions using AWSS Identity and Access Management services Get started with deploying and accessing EC2 instances working with EBS Volumes and Snapshots Customize and create your very own Amazon Machine Image Design and deploy your instances on a highly secured network isolated environment using Amazon VPC Effectively monitor your AWS environment using specialized alarms custom monitoring metrics and much more Explore the various benefits of Database as a Service offerings and leverage them using Amazon RDS and Amazon DynamoDB Take an in depth look at what s new with AWS including EC2 Container Service and Elastic File System In Detail AWS is at the forefront of Cloud Computing today Many businesses are moving away from traditional datacenters and toward AWS because of its reliability vast service offerings lower costs and high rate of innovation Because of its versatility and flexible design AWS can be used to accomplish a variety of simple and complicated tasks such as hosting multitier websites running large scale parallel processing content delivery petabyte storage and archival and lots more Whether you are a seasoned sysadmin or a rookie this book will provide you with all the necessary skills to design deploy and manage your applications on the AWS cloud platform The book guides you through the core AWS services such as IAM EC2 VPC RDS and S3 using a simple real world application hosting example that you can relate to Each chapter is designed to provide you with the most information possible about a particular AWS service coupled with easy to follow hands on steps best practices tips and recommendations By the end of the book you will be able to create a highly secure fault tolerant and scalable environment for your applications to run on Style and approach This in depth and insightful guide is filled with easy to follow examples real world use cases best practices and recommendations that will help you design and leverage AWS   **AWS Certified Cloud Practitioner Study Guide with Online Labs** Ben Piper,David Clinton,2020-07-28 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 Cloud Practitioner Study Guide to give you the same experience working in these labs as you prepare for the Certified Cloud Practitioner 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 Cloud Practitioner The AWS Certified Cloud Practitioner Study Guide Exam CLF C01 provides a solid introduction to this industry leading technology relied upon by thousands of businesses across the globe as well as the resources you need to prove your knowledge in the AWS Certification Exam This guide offers complete and thorough treatment of all topics included in the exam beginning with a discussion of what the AWS cloud is and its basic global infrastructure and architectural principles Other chapters dive into the technical exploring core characteristics of deploying and operating in the AWS Cloud Platform

as well as basic security and compliance aspects and the shared security model In addition the text identifies sources of documentation or technical assistance such as white papers or support tickets To complete their coverage the authors discuss the AWS Cloud value proposition and define billing account management and pricing models This includes describing the key services AWS can provide and their common use cases e g compute analytics etc Distinguish yourself as an expert by obtaining a highly desirable certification in a widely used platform Hone your skills and gain new insights on AWS whether you work in a technical managerial sales purchasing or financial field Fully prepare for this new exam using expert content and real world knowledge key exam essentials chapter review questions and other textual resources Benefit from access to the Sybex online interactive learning environment and test bank including chapter tests practice exams key term glossary and electronic flashcards 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 Cloud Practitioner Labs with 8 unique lab modules based on the book The AWS Certified Cloud Practitioner Study Guide is essential reading for any professional in IT or other fields that work directly with AWS soon to be graduates studying in those areas or anyone hoping to prove themselves as an AWS Certified Cloud Practitioner   *Aws* Dennis Hutten,2017-08-29 Amazon Web Services AWS is Amazon s cloud web hosting platform that offers flexible reliable scalable easy to use and cost effective solutions This tutorial covers various important topics illustrating how AWS works and how it is beneficial to run your website on Amazon Web Services To benefit from this tutorial you should have the desire to understand how Amazon Web Services can help you scale your cloud computing services This tutorial is prepared for beginners who want to learn how Amazon Web Services works to provide reliable flexible and cost effective cloud computing services   **Cloud Computing** Azhar ul Haque Sario,2025-11-17 Dive into the World of Cloud Computing with This Comprehensive Guide This book explores cloud computing basics It starts with foundational principles You ll learn about distributed systems It covers datacenter design and virtualization The text explains the NIST framework It details service models like IaaS PaaS and SaaS Deployment options include public private and hybrid clouds Chapters dive into AWS Azure and Google Cloud origins Real world case studies feature Netflix on AWS Job skills sections prepare you for roles like cloud architect It discusses hyperscale datacenters You ll compare global infrastructures of the big three The book analyzes hypervisors Type 1 vs Type 2 Containerization contrasts with VMs Multi cloud strategies are examined Distributed systems principles include CAP Theorem Consistency models range from strong to eventual Consensus algorithms like Paxos and Raft are covered Communication models discuss RPC and messaging Core IaaS compute services are detailed VM instance types and families are compared Auto scaling and load balancing are explained Pricing models focus on cost optimization Storage services include object block and file types Networking covers VPCs subnets and security groups Databases span relational NoSQL and NewSQL Migration tools are highlighted Container orchestration with Kubernetes is included Serverless computing features Lambda Functions and Cloud Run Data analytics

tools like EMR HDInsight and DataProc are compared Machine learning platforms such as SageMaker Azure ML and Vertex AI are analyzed Security topics include shared responsibility and IAM Governance compliance and FinOps are addressed Future trends in cloud tech wrap it up What sets this book apart is its blend of academic depth and 2025 real time applications something many other guides skim over Unlike generic overviews that ignore provider nuances this one offers side by side comparisons of AWS Azure and GCP services with hands on labs and case studies like Capital One s multi cloud approach It bridges theory like CAP Theorem with practical job training filling gaps in outdated texts that don t cover emerging trends like AIOps or confidential computing Readers get competitive edges through skills like workload rightsizing and least privilege IAM plus FinOps strategies for cost savings areas where competitors fall short by being too high level or vendor biased This author has no affiliation with the brands mentioned and this is independently produced under nominative fair use **Learn Amazon Web Services in a Month of Lunches** David Clinton,2017-08-18 Summary Learn Amazon Web Services in a Month of Lunches guides you through the process of building a robust and secure web application using the core AWS services you really need to know You ll be amazed by how much you can accomplish with AWS Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology Cloud computing has transformed the way we build and deliver software With the Amazon Web Services cloud platform you can trade expensive glass room hardware and custom infrastructure for virtual servers and easy to configure storage security and networking services Better because you don t own the hardware you only pay for the computing power you need Just learn a few key ideas and techniques and you can have applications up and running in AWS in minutes About the Book Learn Amazon Web Services in a Month of Lunches gets you started with AWS fast In just 21 bite size lessons you ll learn the concepts and practical techniques you need to deploy and manage applications You ll learn by doing real world labs that guide you from the core AWS tool set through setting up security and storage and planning for growth You ll even deploy a public facing application that s highly available scalable and load balanced What s Inside First steps with AWS no experience required Deploy web apps using EC2 RDS S3 and Route 53 Cheap and fast system backups Setting up cloud automation About the Reader If you know your way around Windows or Linux and have a basic idea of how web applications work you re ready to start using AWS About the Author David Clinton is a system administrator teacher and writer He has administered written about and created training materials for many important technology subjects including Linux systems cloud computing AWS in particular and container technologies like Docker Many of his video training courses can be found on Pluralsight com and links to his other books on Linux administration and server virtualization can be found at https bootstrap it com Table of Contents Before you begin PART 1 THE CORE AWS TOOLS The 10 minute EC2 web server Provisioning a more robust EC2 website Databases on AWS DNS what s in a name S3 cheap fast file storage S3 cheap fast system backups AWS security working with IAM users groups and roles Managing growth Pushing back against the chaos using resource

tags CloudWatch monitoring AWS resources for fun and profit Another way to play the command line interface PART 2 THE AWS POWER USER OPTIMIZING YOUR INFRASTRUCTURE Keeping ahead of user demand High availability working with AWS networking tools High availability load balancing High availability auto scaling High availability content delivery networks PART 3 FOOD FOR THOUGHT WHAT ELSE CAN AWS DO FOR YOU Building hybrid infrastructure Cloud automation working with Elastic Beanstalk Docker and Lambda Everything else nearly Never the end **AWS Security Cookbook** Heartin Kanikathottu,2024-10-25 Secure your Amazon Web Services AWS infrastructure with permission policies key management and network security while 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 Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionAs a security consultant implementing policies and best practices to secure your infrastructure is critical This cookbook discusses practical solutions for safeguarding infrastructure covering services and features within AWS that help implement security models such as the CIA triad confidentiality integrity and availability and the AAA triad authentication authorization and accounting as well as non repudiation This updated second edition starts with the fundamentals of AWS accounts and organizations The book then guides you through identity and access management data protection network security and encryption You ll explore critical topics such as securing EC2 instances managing keys with KMS and CloudHSM and implementing endpoint security Additionally you ll learn to monitor your environment using CloudWatch CloudTrail and AWS Config while maintaining compliance with services such as GuardDuty Macie and Inspector Each chapter presents practical recipes for real world scenarios allowing you to apply security concepts By the end of this book you ll be well versed in techniques required for securing AWS deployments and be prepared to gain the AWS Certified Security Specialty certification What you will learn Manage AWS accounts and users with AWS Organizations and IAM Identity Center Secure data and infrastructure with IAM policies RBAC and encryption Enhance web security with TLS load balancers and firewalls Use AWS services for logging monitoring and auditing Ensure compliance with machine learning powered AWS services Explore identity management with Cognito AWS directory services and external providers such as Entra ID Follow best practices to securely share data across accounts Who this book is for If you re 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 ll 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 **Geospatial Data Analytics on AWS** Scott Bateman,Janahan Gnanachandran,Jeff DeMuth,2023-06-30 Build an end to end geospatial data lake in AWS using popular AWS services such as RDS Redshift DynamoDB and Athena to manage

geodata Purchase of the print or Kindle book includes a free PDF eBook Key Features Explore the architecture and different use cases to build and manage geospatial data lakes in AWS Discover how to leverage AWS purpose built databases to store and analyze geospatial data Learn how to recognize which anti patterns to avoid when managing geospatial data in the cloud Book DescriptionManaging geospatial data and building location based applications in the cloud can be a daunting task This comprehensive guide helps you overcome this challenge by presenting the concept of working with geospatial data in the cloud in an easy to understand way along with teaching you how to design and build data lake architecture in AWS for geospatial data You ll begin by exploring the use of AWS databases like Redshift and Aurora PostgreSQL for storing and analyzing geospatial data Next you ll leverage services such as DynamoDB and Athena which offer powerful built in geospatial functions for indexing and querying geospatial data The book is filled with practical examples to illustrate the benefits of managing geospatial data in the cloud As you advance you ll discover how to analyze and visualize data using Python and R and utilize QuickSight to share derived insights The concluding chapters explore the integration of commonly used platforms like Open Data on AWS OpenStreetMap and ArcGIS with AWS to enable you to optimize efficiency and provide a supportive community for continuous learning By the end of this book you ll have the necessary tools and expertise to build and manage your own geospatial data lake on AWS along with the knowledge needed to tackle geospatial data management challenges and make the most of AWS services What you will learn Discover how to optimize the cloud to store your geospatial data Explore management strategies for your data repository using AWS Single Sign On and IAM Create effective SQL queries against your geospatial data using Athena Validate postal addresses using Amazon Location services Process structured and unstructured geospatial data efficiently using R Use Amazon SageMaker to enable machine learning features in your application Explore the free and subscription satellite imagery data available for use in your GIS Who this book is forIf you understand the importance of accurate coordinates but not necessarily the cloud then this book is for you This book is best suited for GIS developers GIS analysts data analysts and data scientists looking to enhance their solutions with geospatial data for cloud centric applications A basic understanding of geographic concepts is suggested but no experience with the cloud is necessary for understanding the concepts in this book   **AWS Certified DevOps Engineer - Professional Certification and Beyond** Adam Book,2021-11-25 Explore the ins and outs of becoming an AWS certified DevOps professional engineer with the help of easy to follow practical examples and detailed explanations Key FeaturesDiscover how to implement and manage continuous delivery systems and methodologies on AWSExplore real world scenarios and hands on examples that will prepare you to take the DOP C01 exam with confidenceLearn from enterprise DevOps scenarios to prepare fully for the AWS certification examBook Description The AWS Certified DevOps Engineer certification is one of the highest AWS credentials vastly recognized in cloud computing or software development industries This book is an extensive guide to helping you strengthen your DevOps skills as you work with your AWS workloads on a day

to day basis You ll begin by learning how to create and deploy a workload using the AWS code suite of tools and then move on to adding monitoring and fault tolerance to your workload You ll explore enterprise scenarios that ll help you to understand various AWS tools and services This book is packed with detailed explanations of essential concepts to help you get to grips with the domains needed to pass the DevOps professional exam As you advance you ll delve into AWS with the help of hands on examples and practice questions to gain a holistic understanding of the services covered in the AWS DevOps professional exam Throughout the book you ll find real world scenarios that you can easily incorporate in your daily activities when working with AWS making you a valuable asset for any organization By the end of this AWS certification book you ll have gained the knowledge needed to pass the AWS Certified DevOps Engineer exam and be able to implement different techniques for delivering each service in real world scenarios What you will learnAutomate your pipelines build phases and deployments with AWS native toolingDiscover how to implement logging and monitoring using AWS native toolingGain a solid understanding of the services included in the AWS DevOps Professional examReinforce security practices on the AWS platform from an exam point of viewFind out how to automatically enforce standards and policies in AWS environmentsExplore AWS best practices and anti patternsEnhance your core AWS skills with the help of exercises and practice testsWho this book is for This book is for AWS developers and SysOps administrators looking to advance their careers by achieving the highly sought after DevOps Professional certification Basic knowledge of AWS as well as its core services EC2 S3 and RDS is needed Familiarity with DevOps concepts such as source control monitoring and logging not necessarily in the AWS context will be helpful   *Learning AWS* Aurobindo Sarkar,Amit Shah,2018-02-01 Discover techniques and tools for building serverless applications with AWS Key Features Get well versed with building and deploying serverless APIs with microservices Learn to build distributed applications and microservices with AWS Step Functions A step by step guide that will get you up and running with building and managing applications on the AWS platform Book Description Amazon Web Services AWS is the most popular and widely used cloud platform Administering and deploying application on AWS makes the applications resilient and robust The main focus of the book is to cover the basic concepts of cloud based development followed by running solutions in AWS Cloud which will help the solutions run at scale This book not only guides you through the trade offs and ideas behind efficient cloud applications but is a comprehensive guide to getting the most out of AWS In the first section you will begin by looking at the key concepts of AWS setting up your AWS account and operating it This guide also covers cloud service models which will help you build highly scalable and secure applications on the AWS platform We will then dive deep into concepts of cloud computing with S3 storage RDS and EC2 Next this book will walk you through VPC building realtime serverless environments and deploying serverless APIs with microservices Finally this book will teach you to monitor your applications and automate your infrastructure and deploy with CloudFormation By the end of this book you will be well versed with the various services that AWS provides and will be able

to leverage AWS infrastructure to accelerate the development process What you will learn Set up your AWS account and get started with the basic concepts of AWS Learn about AWS terminology and identity access management Acquaint yourself with important elements of the cloud with features such as computing ELB and VPC Back up your database and ensure high availability by having an understanding of database related services in the AWS cloud Integrate AWS services with your application to meet and exceed non functional requirements Create and automate infrastructure to design cost effective highly available applications Who this book is for If you are an I T professional or a system architect who wants to improve infrastructure using AWS then this book is for you It is also for programmers who are new to AWS and want to build highly efficient scalable applications **Mastering AWS Cloud Computing** Alex Klaus,2023-07-15 Discover the world of AWS cloud computing with Mastering AWS Cloud Computing A Beginner Friendly Fundamental Guide This comprehensive book is designed to provide a clear and concise introduction to AWS empowering beginners to navigate the cloud confidently Are you ready to unlock the potential of cloud computing Whether you re an individual or an organization this beginner friendly guide is your gateway to mastering AWS Explore the benefits services and best practices that will transform the way you design manage and optimize your cloud infrastructure From creating an AWS account and understanding core services to designing for security scalability and high availability this book covers it all Dive into the world of computing storage networking databases security and more as you learn the foundations of AWS cloud computing With easy to understand explanations and practical examples you ll gain the confidence to harness the power of AWS Discover how to optimize performance manage costs effectively ensure security and compliance and successfully migrate your applications and infrastructure to the cloud Start your cloud computing journey today Mastering AWS Cloud Computing equips you with the knowledge and insights needed to unlock new possibilities for innovation growth and success Whether you re an aspiring cloud professional or a business looking to leverage AWS this guide is your roadmap to mastering AWS cloud computing Unlock the potential of AWS cloud computing and embark on a transformative journey Get your copy of Mastering AWS Cloud Computing A Beginner Friendly Fundamental Guide now Ultimate AWS Certified Cloud Practitioner's Exam Guide: Master the Concepts, Services, Security, and Architectural Best Practices of AWS, EC2, S3, and RDS, and Crack AWS CLF-C02 Certification Gaurav H,2024-05-22 Empowering Your Journey to a Successful AWS Cloud Certification Key Features Suitable for those new to AWS and cloud computing covering all necessary concepts in depth Includes practical exercises and practice exams with answers to reinforce learning and boost exam confidence Provides detailed exploration of key AWS services their features and real world applications for practical understanding Book DescriptionEmbark on a journey into AWS cloud computing certification with theUltimate AWS Certified Cloud Practitioner s Exam Guide This book is your ultimate guide to mastering AWS CLF C02 certification by simplifying cloud computing basics and giving you a strong grasp of its core principles and benefits The book simplifies AWS services like EC2 S3 and RDS with clear explanations and real world

examples You ll master these services and learn industry best practices for cost optimization security and compliance ensuring your deployments are efficient and secure Additionally it empowers you to navigate the ever changing world of cloud computing with confidence With exam readiness at the forefront the book provides a meticulous preparation plan complete with practice questions exam strategies and hands on exercises to fortify your knowledge and boost your confidence Whether you re gearing up for the AWS Cloud Practitioner exam or seeking to enhance your professional skill set the practical approach ensures you re primed for success What you will learn Understand the core principles and benefits of cloud computing including scalability elasticity and cost effectiveness Dive deep into key AWS services such as EC2 S3 and RDS learning their features use cases and best practices for implementation Prepare thoroughly for the AWS Cloud Practitioner exam with comprehensive coverage of exam topics practice questions and exam taking strategies Develop practical skills through hands on exercises and real world scenarios enabling you to apply your knowledge effectively in professional settings Unlock new career opportunities in the rapidly growing field of cloud computing by obtaining the highly respected AWS Cloud Practitioner certification Speak confidently about cloud concepts and AWS services enhancing your ability to communicate with colleagues clients and stakeholders Learn industry best practices for cost optimization security and compliance in AWS cloud environments ensuring efficient and secure deployments Hone your problem solving skills by tackling challenging exercises and case studies preparing you to address complex issues in cloud computing with confidence

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