
Aws Glue Developer Guide

Serverless Analytics with Amazon Athena
AWS Certified S3 Solutions Architect
IaC Mastery: Infrastructure As Code
AWS Certified Big Data - Specialty (BDS-C01)
AWS Certified Cloud Practitioner (CLF-C01) Cert Guide
AWS Certified Developer Associate
Serverless ETL and Analytics with AWS Glue
AWS Certified Developer - Associate Guide
Data Ingestion with Python Cookbook
A Beginners Guide to Amazon Web Services
Apache Iceberg: The Definitive Guide
PaaS, IaaS, And SaaS: Complete Cloud Infrastructure
Odd Thomas
AWS Certified Developer [] Associate (DVA-C02)
AWS Certified Solutions Architect Associate All-in-One Exam Guide, Second Edition (Exam SAA-C02)
Data Engineering with AWS
AWS Certified Developer Associate Certification and Beyond
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AWS Certified Cloud Practitioner Study Guide
AWS for Solutions Architects
AWS Certified Developer Associate All-in-One Exam Guide (Exam DVA-C01)
AWS certification guide - AWS Certified Solutions Architect - Associate
AWS Certified Cloud Practitioner Study Guide with Online Labs
Graph Databases
AWS for Solutions Architects
AWS Certified Application Developer
Amazon DynamoDB - The Definitive Guide
Programming Amazon Web Services
AWS Networking Cookbook
AWS Certified Data Analytics Study Guide with Online Labs
Spark: The Definitive Guide
AWS Certified CloudFormation Specialist
Ace AWS Certified Solutions Architect Associate Exam (2024 Edition)
Enterprise AI in the Cloud
AWS Certified Developer Official Study Guide
AWS certification guide - AWS Certified Developer - Associate
Actionable Insights with Amazon QuickSight
AWS Cookbook
AWS certification guide - AWS Certified DevOps Engineer - Professional

Aws Glue Developer Guide

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Serverless Analytics with Amazon Athena Cybellium

Build efficient data lakes that can scale to virtually unlimited size using AWS Glue Key Features 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 ETL developers, data engineers, and data analysts
AWS Certified S3 Solutions Architect Cybellium
Learn from the AWS subject-matter experts, explore real-world scenarios, and pass the AWS

Certified Developer - Associate exam Key Features This fast-paced guide will help you clear the AWS Certified Developer - Associate (DVA-C01) exam with confidence Gain valuable insights to design, develop, and deploy cloud-based solutions using AWS Develop expert core AWS skills with practice questions and mock tests Book Description This book will focus on the revised version of AWS Certified Developer Associate exam. The 2019 version of this exam guide includes all the recent services and offerings from Amazon that benefits developers. AWS Certified Developer - Associate Guide starts with a quick introduction to AWS and the prerequisites to get you started. Then, this book will describe about getting familiar with Identity and Access Management (IAM) along with Virtual private cloud (VPC). Next, this book will teach you about microservices, serverless architecture, security best practices, advanced deployment methods and more. Going ahead we will take you through AWS DynamoDB A NoSQL Database Service, Amazon Simple Queue Service (SQS) and CloudFormation Overview. Lastly, this book will help understand Elastic Beanstalk and will also walk you through AWS lambda. At the end of this book, we will cover enough topics, tips and tricks along with mock tests for you to be able to pass the AWS Certified

Developer - Associate exam and develop as well as manage your applications on the AWS platform. What you will learn Create and manage users, groups, and permissions using AWS IAM services Create a secured VPC with Public and Private Subnets, NAC, and Security groups Launching your first EC2 instance, and working with it Handle application traffic with ELB and monitor AWS resources with CloudWatch Work with AWS storage services such as S3, Glacier, and CloudFront Get acquainted with AWS DynamoDB a NoSQL database service Use SWS to coordinate work across distributed application components Who this book is for This book is for IT professionals and developers looking to clear the AWS Certified Developer Associate 2019 exam. Developers looking to develop and manage their applications on the AWS platform will also find this book useful. No prior AWS experience is needed.

laC Mastery: Infrastructure As Code Rob Botwright

Introducing "laC Mastery: Infrastructure as Code" - Your Ultimate Guide to Terraform, AWS, Azure, and Kubernetes! Are you ready to unlock the full potential of Infrastructure as Code (laC) and revolutionize your cloud infrastructure management? Look no further! Dive into the world of laC with our exclusive book bundle, featuring four comprehensive volumes that will take you from a beginner to an expert in Terraform, AWS, Azure, and Kubernetes. Book 1: Getting Started with laC Perfect for beginners, this book demystifies Terraform and lays the foundation for your laC journey. Learn to create, manage, and scale infrastructure as code with Terraform. Get hands-on experience with Terraform configuration and syntax. Start your laC adventure on the right foot! Book 2: Cloud Infrastructure Orchestration with AWS and laC Dive into the world of Amazon Web Services (AWS) and master the art of laC. Set up your AWS environment for efficient laC management. Discover advanced laC techniques for AWS security and compliance. Orchestrate AWS resources seamlessly and securely! Book 3: Azure laC Mastery: Advanced Techniques and Best Practices Explore the Azure cloud ecosystem and elevate your laC skills. Dive deep into advanced laC techniques tailored for Azure. Master networking, security, and optimization strategies. Become an Azure laC pro with real-world best practices! Book 4: Kubernetes Infrastructure as Code: Expert Strategies and Beyond Sail into the Kubernetes world and unlock expert strategies. Learn to manage Kubernetes resources as code. Ensure security and compliance in Kubernetes laC. Discover advanced tactics for scaling and optimizing your clusters. Why Choose "laC Mastery: Infrastructure as Code" Gain a holistic understanding of laC across Terraform, AWS, Azure, and Kubernetes. Become a sought-after laC expert in your field. Transform your organization's cloud infrastructure management practices. Unlock real-world case studies that showcase the power of laC. Stay ahead in the ever-evolving world of cloud technology. Don't miss out on this opportunity to become an laC master! Whether you're just starting your laC journey or looking to enhance your expertise, our book bundle has you covered. Embrace the future of infrastructure management and stay at the forefront of innovation. Get your "laC Mastery: Infrastructure as Code" book bundle today and embark on a transformative journey to cloud infrastructure excellence. Your future in laC starts here!

AWS Certified Big Data – Specialty (BDS-C01) Pearson IT Certification

AWS Certification Guide - AWS Certified Developer – Associate Master the Art of AWS Development Dive into the dynamic world of AWS with this essential guide tailored for aspiring AWS Certified Developers – Associate. Whether you're a novice or an experienced developer, this book will provide you with a thorough understanding of AWS services and best practices in cloud-based application development. Inside, You Will Find: Comprehensive Coverage: Detailed exploration of AWS core services, SDKs, and APIs, essential for developing robust cloud applications. Hands-On Learning: Practical examples and real-life scenarios that guide you through creating, deploying, and optimizing applications on AWS. Exam Preparation Toolkit: In-depth guidance on the exam format, key topics, and numerous practice questions to ensure you're fully prepared for the certification test. Latest Trends and Techniques: Insights into the newest AWS features and how to leverage them for cutting-edge application development. Expertly Crafted by a Seasoned Developer Authored by an experienced AWS developer, this guide combines practical knowledge with insightful tips to help you navigate the AWS development landscape with ease. Your Pathway to AWS Developer Certification This book is not just a study guide; it's a comprehensive resource for understanding AWS development practices, helping you build a solid foundation in cloud application development and preparing you for a successful certification journey. Elevate Your Developer Skills Step up your development game. This guide is designed to equip you with the skills and knowledge needed to excel in the AWS ecosystem and become a certified AWS

Developer – Associate. Start Your AWS Development Journey Today Embrace your passion for cloud development. This guide is your first step towards achieving AWS certification and advancing your career in the exciting field of cloud computing. © 2023 Cybellium Ltd. All rights reserved. www.cybellium.com

AWS Certified Cloud Practitioner (CLF-C01) Cert Guide McGraw Hill Professional

Traditional data architecture patterns are severely limited. To use these patterns, you have to ETL data into each tool—a cost-prohibitive process for making warehouse features available to all of your data. The lack of flexibility with these patterns requires you to lock into a set of priority tools and formats, which creates data silos and data drift. This practical book shows you a better way. Apache Iceberg provides the capabilities, performance, scalability, and savings that fulfill the promise of an open data lakehouse. By following the lessons in this book, you'll be able to achieve interactive, batch, machine learning, and streaming analytics with this high-performance open source format. Authors Tomer Shiran, Jason Hughes, and Alex Merced from Dremio show you how to get started with Iceberg. With this book, you'll learn: The architecture of Apache Iceberg tables What happens under the hood when you perform operations on Iceberg tables How to further optimize Iceberg tables for maximum performance How to use Iceberg with popular data engines such as Apache Spark, Apache Flink, and Dremio Discover why Apache Iceberg is a foundational technology for implementing an open data lakehouse.

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This up-to-date study guide offers 100% coverage of every objective for the current version of the AWS Certified Solutions Architect Professional exam Get complete coverage of all objectives included on the SAA-C02 exam from this comprehensive resource. Written by an expert AWS Solutions Architect and well-respected author, this authoritative guide fully addresses the knowledge and skills required for passing the AWS Certified Solutions Architect – Associate exam. You'll find learning objectives at the beginning of each chapter, exam tips, practice exam questions, and in-depth explanations. You'll also build your practical knowledge with the many hands-on labs found throughout this guide. Designed to help you pass the exam with ease, this definitive volume also serves as an essential on-the-job reference. Covers all exam domains, including: Design Resilient Architectures Design High-Performing Architectures Design Secure Applications and Architectures Design Cost-Optimized Architectures Online content includes: 130 practice exam questions Test engine that provides practice exams or quizzes that can be customized by chapter or exam objective

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Data Ingestion with Python Cookbook Packt Publishing Ltd

Meet Odd Thomas, the unassuming young hero of Dean Koontz's dazzling New York Times bestseller, a gallant sentinel at the crossroads of life and death who offers up his heart in these pages and will forever capture yours. "The dead don't talk. I don't know why." But they do try to

communicate, with a short-order cook in a small desert town serving as their reluctant confidant. Sometimes the silent souls who seek out Odd want justice. Occasionally their otherworldly tips help him prevent a crime. But this time it's different. A stranger comes to Pico Mundo, accompanied by a horde of hyena-like shades who herald an imminent catastrophe. Aided by his soul mate, Stormy Llewellyn, and an unlikely community of allies that includes the King of Rock 'n' Roll, Odd will race against time to thwart the gathering evil. His account of these shattering hours, in which past and present, fate and destiny, converge, is a testament by which to live—an unforgettable fable for our time destined to rank among Dean Koontz's most enduring works. *A Beginners Guide to Amazon Web Services* "O'Reilly Media, Inc."

Welcome to the forefront of knowledge with Cybellium, your trusted partner in mastering the cutting-edge fields of IT, Artificial Intelligence, Cyber Security, Business, Economics and Science. Designed for professionals, students, and enthusiasts alike, our comprehensive books empower you to stay ahead in a rapidly evolving digital world. * Expert Insights: Our books provide deep, actionable insights that bridge the gap between theory and practical application. * Up-to-Date Content: Stay current with the latest advancements, trends, and best practices in IT, AI, Cybersecurity, Business, Economics and Science. Each guide is regularly updated to reflect the newest developments and challenges. * Comprehensive Coverage: Whether you're a beginner or an advanced learner, Cybellium books cover a wide range of topics, from foundational principles to specialized knowledge, tailored to your level of expertise. Become part of a global network of learners and professionals who trust Cybellium to guide their educational journey. www.cybellium.com

Apache Iceberg: The Definitive Guide Packt Publishing Ltd

Introducing the Ultimate Cloud Infrastructure Mastery Bundle: PaaS, IaaS, and SaaS - Your Complete Guide from Beginner to Expert! Are you ready to skyrocket your cloud expertise? Unlock the power of Terraform, GCE, AWS, Microsoft Azure, Kubernetes, and IBM Cloud with this all-encompassing 12-in-1 book bundle! What's Inside: 1 "Terraform Essentials": Master infrastructure as code. 2 "Google Cloud Engine Mastery": Harness Google's cloud power. 3 "AWS Unleashed": Dominate Amazon Web Services. 4 "Azure Mastery": Excel with Microsoft's cloud. 5 "Kubernetes Simplified": Conquer container orchestration. 6 "IBM Cloud Mastery": Navigate IBM's cloud solutions. 7 Plus, 5 more essential guides! Why Choose Our Bundle? Comprehensive Learning: From beginner to expert, this bundle covers it all. Real-World Application: Practical insights for real-world cloud projects. Step-by-Step Guidance: Clear and concise instructions for every skill level. Time-Saving: Get all the knowledge you need in one place. Stay Current: Up-to-date content for the latest cloud technologies. Affordable: Save big compared to buying individual books! Unlock Limitless Possibilities: Whether you're an aspiring cloud architect, a seasoned developer, or a tech enthusiast, this bundle empowers you to: Build scalable and efficient cloud infrastructures. Deploy and manage applications effortlessly. Optimize cloud costs and resources. Automate repetitive tasks with Terraform. Orchestrate containers with Kubernetes. Master multiple cloud platforms. Ensure security and compliance. What Our Readers Say: "This bundle is a game-changer! I went from cloud novice to cloud expert in no time." "The step-by-step guides make complex topics easy to understand." "The knowledge in these books is worth every penny. I recommend it to all my colleagues." BONUS: Exclusive access to resources, updates, and a community of fellow learners! Embark on your cloud journey today! Don't miss out on this limited-time opportunity to become a cloud infrastructure expert. Click "Add to Cart" now and elevate your cloud skills with the PaaS, IaaS, and SaaS: Complete Cloud Infrastructure bundle!

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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 Cloud Practitioner (CLF-C01) exam success with this Cert Guide from Pearson IT Certification, a leader in IT Certification learning. Master AWS Certified Cloud Practitioner (CLF-C01) exam topics Assess your knowledge with chapter-ending quizzes Review key concepts with exam preparation tasks AWS Certified Cloud Practitioner (CLF-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 Cloud Practitioner exam, including how to: Define the AWS Cloud and its value proposition, and discuss its economics Define the AWS Shared Responsibility model, and key AWS security and compliance concepts Identify AWS access management capabilities Define methods of deploying the AWS Cloud and operating within Define the AWS global infrastructure and identify core AWS services Recognize and compare AWS pricing models and account structures Identify support resources for security, AWS cloud technology, and billing

Odd Thomas Rob Botwright

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 Certified Developer **Associate (DVA-C02)** Cybellium

Apply cloud design patterns to overcome real-world challenges by building scalable, secure, highly available, and cost-effective solutions Key Features Apply AWS Well-Architected Framework concepts to common real-world use cases Understand how to select AWS patterns and architectures that are best suited to your needs Ensure the security and stability of a solution without impacting cost or performance Book DescriptionOne of the most popular cloud platforms in the world, Amazon Web Services (AWS) offers hundreds of services with thousands of features to help you build scalable cloud solutions; however, it can be overwhelming to navigate the vast number of services and decide which ones best suit your requirements. Whether you are an application architect, enterprise architect, developer, or operations engineer, this book will take you through AWS architectural patterns and guide you in selecting the most appropriate services for your projects. AWS for Solutions Architects is a comprehensive guide that covers the essential concepts that you need to know for designing well-architected AWS solutions that solve the challenges organizations face daily. You'll get to grips with AWS architectural principles and patterns by implementing best practices and recommended techniques for real-world use cases. The book will show you how to enhance operational efficiency, security, reliability, performance, and cost-effectiveness using real-world examples. By the end of this AWS book, you'll have gained a clear understanding of how to design AWS architectures using the most appropriate services to meet your organization's technological and business requirements.What you will learn Rationalize the selection of AWS as the right cloud provider for your organization Choose the most appropriate service from AWS for a particular use case or project Implement change and operations management Find out the right resource type and size to balance performance and efficiency Discover how to mitigate risk and enforce security, authentication, and authorization Identify common business scenarios and select the right reference architectures for them Who this book is for This book is for application and enterprise architects, developers, and operations engineers who want to become well-versed with AWS architectural patterns, best practices, and advanced techniques to build scalable, secure, highly available, and cost-effective solutions in the cloud. Although existing AWS users will find this book most useful, it will also help potential users understand how leveraging AWS can benefit their organization.

AWS Certified Solutions Architect Associate All-in-One Exam Guide, Second Edition (Exam SAA-C02) Cybellium

Embrace emerging AI trends and integrate your operations with cutting-edge solutions Enterprise

AI in the Cloud: A Practical Guide to Deploying End-to-End Machine Learning and ChatGPT Solutions is an indispensable resource for professionals and companies who want to bring new AI technologies like generative AI, ChatGPT, and machine learning (ML) into their suite of cloud-based solutions. If you want to set up AI platforms in the cloud quickly and confidently and drive your business forward with the power of AI, this book is the ultimate go-to guide. The author shows you how to start an enterprise-wide AI transformation effort, taking you all the way through to implementation, with clearly defined processes, numerous examples, and hands-on exercises. You'll also discover best practices on optimizing cloud infrastructure for scalability and automation. Enterprise AI in the Cloud helps you gain a solid understanding of: AI-First Strategy: Adopt a comprehensive approach to implementing corporate AI systems in the cloud and at scale, using an AI-First strategy to drive innovation State-of-the-Art Use Cases: Learn from emerging AI/ML use cases, such as ChatGPT, VR/AR, blockchain, metaverse, hyper-automation, generative AI, transformer models, Keras, TensorFlow in the cloud, and quantum machine learning Platform Scalability and MLOps (ML Operations): Select the ideal cloud platform and adopt best practices on optimizing cloud infrastructure for scalability and automation AWS, Azure, Google ML: Understand the machine learning lifecycle, from framing problems to deploying models and beyond, leveraging the full power of Azure, AWS, and Google Cloud platforms AI-Driven Innovation Excellence: Get practical advice on identifying potential use cases, developing a winning AI strategy and portfolio, and driving an innovation culture Ethical and Trustworthy AI Mastery: Implement Responsible AI by avoiding common risks while maintaining transparency and ethics Scaling AI Enterprise-Wide: Scale your AI implementation using Strategic Change Management, AI Maturity Models, AI Center of Excellence, and AI Operating Model Whether you're a beginner or an experienced AI or MLOps engineer, business or technology leader, or an AI student or enthusiast, this comprehensive resource empowers you to confidently build and use AI models in production, bridging the gap between proof-of-concept projects and real-world AI deployments. With over 300 review questions, 50 hands-on exercises, templates, and hundreds of best practice tips to guide you through every step of the way, this book is a must-read for anyone seeking to accelerate AI transformation across their enterprise.

Data Engineering with AWS McGraw Hill Professional

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AWS Certified Developer Associate Certification and Beyond Bantam

Harness the potential and scalability of DynamoDB to effortlessly construct resilient, low-latency databases Key Features Discover how DynamoDB works behind the scenes to make the most of its features Learn how to keep latency and costs minimal even when scaling up Integrate DynamoDB with other AWS services to create a full data analytics system Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionThis book will help you master Amazon DynamoDB, the fully managed, serverless, NoSQL database service designed for high performance at any scale. Authored by Aman Dhingra, senior DynamoDB specialist solutions architect at AWS, and Mike Mackay, former senior NoSQL specialist solutions architect at AWS, this guide draws on their expertise to equip you with the knowledge and skills needed to harness DynamoDB's full potential. This book not only introduces you to DynamoDB's core features and real-world applications, but also provides in-depth guidance on transitioning from traditional relational databases to the NoSQL world. You'll learn essential data modeling techniques, such as vertical partitioning, and explore the nuances of DynamoDB's indexing capabilities, capacity modes, and consistency models. The chapters also help you gain a solid understanding of advanced topics such as enhanced analytical patterns, implementing caching with DynamoDB Accelerator (DAX), and integrating DynamoDB with other AWS services to optimize your data strategies. By the end of this book, you'll be able to

design, build, and deliver low-latency, high-throughput DynamoDB solutions, driving new levels of efficiency and performance for your applications.What you will learn Master key-value data modeling in DynamoDB for efficiency Transition from RDBMSs to NoSQL with optimized strategies Implement read consistency and ACID transactions effectively Explore vertical partitioning for specific data access patterns Optimize data retrieval using secondary indexes in DynamoDB Manage capacity modes, backup strategies, and core components Enhance DynamoDB with caching, analytics, and global tables Evaluate and design your DynamoDB migration strategy Who this book is for This book is for software architects designing scalable systems, developers optimizing performance with DynamoDB, and engineering managers guiding decision-making. Data engineers will learn to integrate DynamoDB into workflows, while product owners will explore its innovative capabilities. DBAs transitioning to NoSQL will find valuable insights on DynamoDB and RDBMS integration. Basic knowledge of software engineering, Python, and cloud computing is helpful. Hands-on AWS or DynamoDB experience is beneficial but not required.

Modern Data Architecture on AWS Cybellium Ltd

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.

AWS Certified Cloud Developer **Associate** John Wiley & Sons

Unlock unparalleled technical depth with this book, expertly integrating the proven methodologies of Tutorials Dojo, the insights of Adrian Cantrill, and the hands-on approach of AWS Skills Builder. Unlock success with 'Ace the AWS Solutions Architect Associates SAA-C03 Certification Exam' by Etienne Noumen. With over 20 years in Software Engineering and a deep 5-year dive into AWS Cloud, Noumen delivers an unmatched guide packed with Quizzes, Flashcards, Practice Exams, and invaluable CheatSheets. Learn firsthand from testimonials of triumphs and recoveries, and master the exam with exclusive tips and tricks. This comprehensive roadmap is your ultimate ticket to acing the SAA-C03 exam! 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 Keywords: AWS Solutions Architect SAA-C03 Certification Etienne Noumen AWS Cloud expertise Practice Exams AWS Flashcards AWS CheatSheets Testimonials Exam preparation AWS exam tips Cloud Engineering Certification guide AWS study guide Solutions Architect Associates Exam success strategies The book contains several testimonials like the one below: Successfully cleared the AWS Solutions Architect Associate SAA-C03 with a score of 824, surpassing my expectations. The exam presented a mix of question difficulties, with prominent topics being Kinesis, Lakeformation, Big Data tools, and S3. Given the declining cybersecurity job market in Europe post-2021, I'm contemplating a transition to cloud engineering. For preparation, I leveraged Stephane Mareek's course, Tutorial dojo's practice tests, and flashcards. My manager also shared his AWS skill builder account. Post evaluation, I found Mareek's practice tests to be outdated and more challenging than required, with his course delving too deeply into some areas. In contrast, Tutorial dojo's materials were simpler. My scores ranged from 65% on Mareek's tests to 75-80% on Tutorial dojo, with a 740 on

the official AWS practice test. Sharing this for those on a similar journey. Sample Questions and Detailed Answers included: Latest AWS SAA Practice Exam - Question 1: A web application hosted on AWS uses an EC2 instance to serve content and an RDS MySQL instance for database needs. During a performance audit, you notice frequent read operations are causing performance bottlenecks. To optimize the read performance, which of the following strategies should you implement? (Select TWO.) A. Deploy an ElastiCache cluster to cache common queries and reduce the load on the RDS instance. B. Convert the RDS instance to a Multi-AZ deployment for improved read performance. C. Use RDS Read Replicas to offload read requests from the primary RDS instance. D. Increase the instance size of the RDS database to a larger instance type with more CPU and RAM. E. Implement Amazon Redshift to replace RDS for improved read and write operation performance. Correct Answer: A. Deploy an ElastiCache cluster to cache common queries and reduce the load on the RDS instance. C. Use RDS Read Replicas to offload read requests from the primary RDS instance. Explanation: Amazon RDS Read Replicas provide a way to scale out beyond the capacity of a single database deployment for read-heavy database workloads. You can create one or more replicas of a source DB Instance and serve high-volume application read traffic from multiple copies of your data, thereby increasing aggregate read throughput. Reference: Amazon RDS Read Replicas Latest AWS SAA Practice Exam - Question 2: Secure RDS Access with IAM Authentication A financial application suite leverages an ensemble of EC2 instances, an Application Load Balancer, and an RDS instance poised in a Multi-AZ deployment. The security requisites dictate that the RDS database be exclusively accessible to authenticated EC2 instances, preserving the confidentiality of customer data. The Architect must choose a security mechanism that aligns with AWS best practices and ensures stringent access control. What should the Architect implement to satisfy these security imperatives? Enable IAM Database Authentication for the RDS instance. Implement SSL encryption to secure the database connections. Assign a specific IAM Role to the EC2 instances granting RDS access. Utilize IAM combined with STS for restricted RDS access with a temporary credentialing system. Correct Answer: A. Enable IAM Database Authentication for the RDS instance. Here's the detailed explanation and reference link for the answer provided: Enable IAM Database Authentication for the RDS instance. IAM database authentication is used to control who can connect to your Amazon RDS database instances. When IAM database authentication is enabled, you don't need to use a password to connect to a DB instance. Instead, you use an authentication token issued by AWS Security Token Service (STS). IAM database authentication works with MySQL and PostgreSQL. It provides enhanced security because the authentication tokens are time-bound and encrypted. Moreover, this method integrates the database access with the centralized IAM service, simplifying user management and access control. By using IAM Database Authentication, you satisfy the security requirements by ensuring that only authenticated EC2 instances (or more precisely, the applications running on them that assume an IAM role with the necessary permissions) can access

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the RDS database. This method also preserves the confidentiality of customer data by leveraging AWS's robust identity and access management system. Reference: IAM Database Authentication for MySQL and PostgreSQL The other options provided are valuable security mechanisms but do not fulfill the requirements as directly or effectively as IAM Database Authentication for the given scenario: Implement SSL encryption to secure the database connections. While SSL (Secure Socket Layer) encryption secures the data in transit between the EC2 instances and the RDS instance, it does not provide an access control mechanism on its own. SSL encryption should be used in conjunction with IAM database authentication for a comprehensive security approach. Assign a specific IAM Role to the EC2 instances granting RDS access. Assigning an IAM role to EC2 instances to grant them access to RDS is a good practice and is required for the EC2 instances to use IAM Database Authentication. However, it is not the complete answer to the question of which security mechanism to implement. Utilize IAM combined with STS for restricted RDS access with a temporary credentialing system. AWS Security Token Service (STS) is indeed used when implementing IAM Database Authentication, as it provides the temporary credentials (authentication tokens) for database access. While the use of STS is inherent to the process of IAM Database Authentication, the answer needed to specify the enabling of IAM Database Authentication as the method to meet the security requirements. Latest AWS SAA Practice Exam - Question 3: A microservice application is being hosted in the ap-southeast-1 and ap-northeast-1 regions. The ap-southeast-1 region accounts for 80% of traffic, with the rest from ap-northeast-1. As part of the company's business continuity plan, all traffic must be rerouted to the other region if one of the regions' servers fails. Which solution can comply with the requirement? A. Set up an 80/20 weighted routing in the application load balancer and enable health checks. B. Set up an 80/20 weighted routing in the network load balancer and enable health checks. C. Set up an 80/20 weighted routing policy in AWS Route 53 and enable health checks. D. Set up a failover routing policy in AWS Route 53 and enable health checks. Correct Answer: C. Establish an 80/20 weighted routing policy in AWS Route 53 and incorporate health checks. Explanation: The correct solution for this scenario is to use AWS Route 53's weighted routing policy with health checks. This setup allows the distribution of traffic across multiple AWS regions based on assigned weights (in this case, 80% to ap-southeast-1 and 20% to ap-northeast-1) and automatically reroutes traffic if one region becomes unavailable due to server failure. Option C is correct because AWS Route 53's weighted routing policy allows you to assign weights to resource record sets (RRS) which correspond to different AWS regions. When combined with health checks, Route 53 can monitor the health of the application in each region. If a region becomes unhealthy, Route 53 will reroute traffic to the healthy region based on the configured weights. Option A and B are incorrect because application and network load balancers operate at the regional level, not the global level. Therefore, they cannot reroute traffic between regions. Option D, while involving Route 53,

suggests a failover routing policy, which is not suitable for distributing traffic with a specific percentage split across regions. Failover routing is typically used for active-passive failover, not for load distribution, which doesn't align with the requirement to handle traffic in an 80/20 proportion. The weighted routing policy of AWS Route 53, with appropriate health checks, satisfies the business requirement by distributing traffic in the specified ratio and ensuring business continuity by redirecting traffic in the event of a regional failure. Reference: <https://docs.aws.amazon.com/Route53/latest/DeveloperGuide/routing-policy.html> Get the Print version of the Book at Amazon at <https://amzn.to/40ycS4c> (Use Discount code Djamgatech2024 for 50% OFF)

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