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Aws Certified Solutions Architect Associate Level Examination

Venkata Sasi Kanumuri, Otieno Ododa

Aws Certified Solutions Architect Associate Level Examination:

AWS Certified Solutions Architect Study Guide Ben Piper,David Clinton,2019-03-01 The AWS Certified Solutions Architect Study Guide Associate SAA C01 Exam is your complete and fully updated resource to the AWS Solutions Architect Associate certification This invaluable Sybex study guide covers all relevant aspects of the AWS Solutions Architect job role including mapping multi tier architectures to AWS services loose coupling and stateless systems applying AWS security features deploying and managing services designing large scale distributed systems and many more Written by two AWS subject matter experts this self study guide and reference provides all the tools and information necessary to master the exam earn your certification and gain insights into the job of an AWS Solutions Architect Efficient and logical presentation of exam objectives allows for flexible study of topics and powerful learning tools increase comprehension and retention of key exam elements Practice questions chapter reviews and detailed examination of essential concepts fully prepare you for the AWS Solutions Architect Associate certification The certification is highly valued in IT and cloud computing professionals Now in a new edition reflecting the latest changes additions and updates to the AWS Solutions Architect Associate certification exam guide this book is your complete one stop resource Access the Sybex interactive learning environment and test bank including chapter tests practice exams electronic flashcards and a searchable glossary of key terms Learn all the components of the AWS exam and know what to expect on exam day Review challenging exam topics and focus on the areas that need improvement Expand your AWS skillset and keep pace with current cloud computing technologies The AWS Certified Solutions Architect Study Guide Associate SAA C01 Exam enables you to validate your skills increase your competitive advantage and take the next step on your career path Comprehensive and up to date content and superior study tools make this guide a must have resource for those seeking AWS Solutions Architect Associate certification

Aws Certified Solutions Architect Associate Ryan Richman,2020-10-18 Are you preparing for the AWS Certified Solutions Architect Associate Examination What do you need to learn What does it take to pass the certification exams AWS provides a list of services that includes hosting websites storing data into databases game development IoT and Artificial Intelligence Based on your company s needs you chose a handful of services you require These services are collectively known as cloud computing With cloud computing large scale businesses no longer have to purchase and set up IT infrastructure for months Instead the servers can roll over in minutes using AWS AWS aims to provide scalable fast and affordable services in around 190 countries Suppose you have the interest to take the examination In that case this book is for you so keep on reading This book covers the ins and outs of AWS Certified Solutions Architect Associate Examination using a simple step by step approach that will help you put what you learn into practice This book covers the following topics AWS Fundamentals Amazon Web Services AWS Products and Pricing Elasticity And Scalability Network Architectures AWS Certification Introduction to Amazon EC2 and Amazon EBS Deployment Orchestration Some conditions as close to the actual exam AWS

Certified Solutions Architect Associate Practice Test 1 AWS Certified Solutions Architect Associate Practice Test 2 And Much More The key benefit of being a user of AWS services is that AWS does not need to think again about the various cloud computing sectors as most of the tasks AWS the highly customizable cloud computing provider has the potential to be the cloud based cloud service provider Contrary to today s way AWS strives for greater affordability adaptability and the modern market forces that offer what you want Therefore you can enjoy automated services without any manual intervention What are you waiting for BUY this book NOW *AWS Certified Solutions Architect - Associate (SAA-C03) Exam Guide* Michelle Chismon, Kate Gawron, 2024-11-29 The definitive blueprint for passing the AWS Solutions Architect Associate exam combining exam strategies with practical expertise in delivering Amazon Web Services solutions to transform your professional credentials Purchase of this book unlocks access to web based exam prep resources including mock exams flashcards and exam tips and the eBook pdf Key Features Master the essential topics required to pass the AWS SAA C03 exam and excel in AWS roles Learn proven strategies and practical tips for optimizing AWS solutions from seasoned AWS experts Build confidence with exam level practice questions and comprehensive preparation tools Book Description Make the most of AWS unparalleled opportunities for professionals seeking to reskill and future proof their careers with this comprehensive guide serving as your strategic pathway to enhancing your career potential and validating your expertise with an AWS certification With Michelle Chismon s unique blend of academic credentials industry spanning cloud consulting experience and role as an AWS Authorized Instructor training global audiences combined with Kate Gawron s extensive career in applications and databases and AWS expertise helping clients optimize their AWS environments this exam guide offers technical depth practical insights and teaching expertise to help you master AWS Packed with detailed explanations chapter end review questions and exam level mock exams this all in one exam guide equips you to excel From essential design and architectural principles including building secure resilient systems and optimizing costs to key exam domains such as VPCs serverless computing and database design you ll cover every aspect of the AWS SAA C03 exam In addition to technical knowledge this guide offers exam strategies and expert tips to build confidence and increase your chances of success Begin your certification journey and turn your AWS certification into a springboard for success in cloud computing What you will learn Identify key AWS services for seamless deployments Apply robust security measures for secure AWS solutions Utilize efficient data transfer methods to streamline operations Compare AWS compute storage and database options for best fit Design and implement highly resilient architectures on AWS Leverage AWS security tools to protect data and applications Develop cost optimized applications that scale dynamically to meet changing demands Interpret AWS exam questions strategically to maximize your chances of selecting the correct answers Who this book is for This book is for anyone with a background in designing IT systems whether from an application database or infrastructure perspective and looking to gain new skills for working with AWS It s ideal for those preparing for the AWS SAA C03 exam or aiming to

become an AWS Certified Solutions Architect You should have a strong infrastructure background and understand the basics of servers networks and application design AWS knowledge isn t required but a basic understanding of cloud versus on premises is helpful

Ace AWS Certified Solutions Architect Associate Exam (2024 Edition) Etienne Noumen, Unlock unparalleled technical depth with this book expertly integrating the proven methodologies of Tutorial 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, all 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 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 **AWS Certified Solutions Architect - Associate (SAA-C01) Cert Guide** Anthony Sequeira,2019-01-04 This is the eBook version of the print title Note

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

Ultimate AWS Certified Solutions Architect Associate Exam Guide Venkata Sasi Kanumuri, Otieno Ododa, 2024-09-25

TAGLINE Your Definitive Path to Mastering Cloud Architecture Skills and Conquering the SAA C03 Exam **KEY FEATURES** Immerse in practical learning to solidify your grasp of AWS architecture principles Gain insights from industry leading tips and best practices to think like an expert Solution Architect Designed for all experience levels this guide caters to both beginners and seasoned professionals Deepen your knowledge of core AWS services while exploring advanced topics like serverless computing containers and machine learning Equip yourself with proven strategies and expert tips to confidently pass the AWS Certified Solutions Architect Associate exam **DESCRIPTION** The AWS Certified Solutions Architect Associate SAA C03 credential boosts career prospects and salaries with 73% of professionals seeing job improvements and a 26% salary increase The Ultimate AWS Certified Solutions Architect Associate SAA C03 Certification Guide equips you with the knowledge to master AWS architecture from core services to advanced topics like serverless computing and machine learning with practical examples and expert insights that are crucial for passing the exam and excelling in real world applications This book not only covers the fundamentals but also explores advanced topics like serverless computing

containers and machine learning Each chapter is packed with practical examples real world scenarios hands on exercises and expert insights that will build your confidence and competence as a cloud architect With this guide you will gain the knowledge and skills needed to create highly available fault tolerant architectures that meet the demands of today s dynamic cloud environments Whether you are aiming to pass the AWS Certified Solutions Architect Associate exam or looking to enhance your cloud architecture skills this book is your gateway to success Take the first step towards becoming an AWS Certified Solutions Architect and unlock new horizons in your cloud architecture career today

WHAT WILL YOU LEARN

Develop a strong grasp of cloud fundamentals essential for thriving in the fast paced world of cloud technology Learn to build secure fault tolerant and cost efficient AWS architectures that meet diverse business requirements Gain comprehensive knowledge of AWS services like computing storage networking and databases to create scalable and reliable cloud solutions Explore cutting edge AWS solutions such as serverless computing containers and machine learning to enhance your cloud architectures Develop the skills to tackle complex cloud environments with confidence using practical insights and strategies to solve real world problems Master expert tips and targeted strategies to excel in the AWS Certified Solutions Architect Associate SAA C03 exam and achieve certification

WHO IS THIS BOOK FOR

This book is tailored for aspiring AWS professionals and those looking to advance as Solution Architects with a focus on preparing for the SAA C03 exam No prior experience in cloud application development or deployment is required making it an ideal resource for beginners eager to start their AWS journey Experienced professionals will also find value in the comprehensive coverage and advanced topics ensuring they can refine their skills and achieve certification success

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AWS Certified Solution Architect Associate Study Guide & Exam Prep Paul Reynolds,2020-12-24

Become an AWS Certified Solution Architect Associate Pass exam SAA C02 and show the world your skills in the design implementation management and monitoring of AWS services Earn AWS Certification to advance your status as a cloud professional and boost your earning potential This study guide was created from notes and practice materials used by the author to pass the AWS SAA C02 Exam The AWS Solution Architect Associate exam evaluates the knowledge of candidates in the design implementation management and monitoring of AWS solutions Two years of hands on AWS experience is recommended as well as a solid grasp of core services the product catalogue AWS console and command line tools This condensed guide is designed for busy technology professionals who have an understanding of infrastructure concepts and a level of AWS experience equivalent to AW Cloud Practitioner plus the hands on skills This book will give you the key concepts and information you need to pass SAA C02 and become AWS certified

About the Exam

The AWS Solution Architect Associate

exam tests that candidates have the skills and knowledge needed to design AWS solutions with sections in the book aligned to the high level topics covered in the exam The high level skills measured in the exam Designing Resilient Architectures Designing High Performing Architectures Designing Secure Applications and Architectures Designing Cost Optimized Architectures About AWS Certification Passing exam SAA C02 earns you the AWS Certified Solution Architect Associate certification demonstrating your skills in the design implementation management and monitoring of AWS solutions The author has been vendor certified for over 20 years

AWS Certified Solutions Architect Associate Training Notes

2019 Neal Davis,2019-05-24 The information in this AWS Certification ebook relates to the latest version of the Amazon Web Services AWS Certified Solutions Architect Associate SAA C01 exam that was released in February 2018 An updated version of the book is released each month to ensure the content is up to date The SAA C01 exam covers a broad set of AWS services and the aim of this AWS Solutions Architect Associate study guide is to provide a detailed list of the facts you need to know before you sit the exam This will shortcut your study time and maximize your chance of passing the exam first time The architect certifications including the AWS Certified Solutions Architect Associate certification are extremely valuable in the Cloud Computing industry today Preparing to answer the associate level scenario based questions requires a significant commitment in time and effort AWS Solutions Architect and successful instructor Neal Davis has consolidated the information you need to be successful from numerous training sources and AWS FAQ pages Master the details of the AWS Cloud so you can achieve exam success In addition to the book you are provided with access to a 65 question practice exam on an interactive exam simulator to evaluate your progress and ensure you re prepared for the style and difficulty of the real AWS exam This book can help you prepare for your exam in the following ways Deep dive into the SAA C01 exam objectives with over 240 pages of detailed facts tables and diagrams everything you need to know Familiarize yourself with the exam question format with the practice questions included in each section Use our online exam simulator to evaluate progress and ensure you re ready for the real AWS exam We hope you get great value from this AWS Training resource and wish you the best of luck with your AWS Certified Solutions Architect Associate exam

AWS Certified Solutions Architect Official Study Guide Joe Baron,Hisham Baz,Tim Bixler,Biff Gaut,Kevin E. Kelly,Sean Senior,John Stamper,2016-09-28 Validate your AWS skills This is your opportunity to take the next step in your career by expanding and validating your skills on the AWS cloud AWS has been the frontrunner in cloud computing products and services and the AWS Certified Solutions Architect Official Study Guide for the Associate exam will get you fully prepared through expert content and real world knowledge key exam essentials chapter review questions access to Sybex s interactive online learning environment and much more This official study guide written by AWS experts covers exam concepts and provides key review on exam topics including Mapping Multi Tier Architectures to AWS Services such as web app servers firewalls caches and load balancers Understanding managed RDBMS through AWS RDS MySQL Oracle SQL Server Postgres Aurora Understanding Loose Coupling and

Stateless Systems Comparing Different Consistency Models in AWS Services Understanding how AWS CloudFront can make your application more cost efficient faster and secure Implementing Route tables Access Control Lists Firewalls NAT and DNS Applying AWS Security Features along with traditional Information and Application Security Using Compute Networking Storage and Database AWS services Architecting Large Scale Distributed Systems Understanding of Elasticity and Scalability Concepts Understanding of Network Technologies Relating to AWS Deploying and Managing Services with tools such as CloudFormation OpsWorks and Elastic Beanstalk Learn from the AWS subject matter experts review with proven study tools and apply real world scenarios If you are looking to take the AWS Certified Solutions Architect Associate exam this guide is what you need for comprehensive content and robust study tools that will help you gain the edge on exam day and throughout your career [Ace the AWS Solutions Architect Associates SAA-C03 Certification Exam](#) Etienne Noumen, 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 There are 3 reasons to strengthen your cloud skills 1 Cloud roles pay well The average base salary for a Solutions Architect in the U S is 140 000 2 Cloud skills are in demand Cloud computing has been one of the most in demand hard skills for 7 years running 3 Learning cloud can get you a raise The average raise received by IT pros who gained new skills and or certifications is 15 30K AWS certification is globally recognized as the premier way to demonstrate your AWS cloud skills The AWS Certified Solutions Architect Associate Level SAA C03 exam validates your ability to effectively demonstrate knowledge of how to architect and deploy secure and robust applications on AWS technologies It is a required exam for the AWS Certified Solutions Architect Professional Level certification In order to prepare for this exam We suggest purchasing our AWS Certified Solutions Architect Associate Level Exam Preparation eBook This AWS Cloud Solutions Architect Associates Certification App covers all of the key concepts you need to know for the AWS Solutions Architect Associate Exam Solution architecture is a practice of defining and describing an architecture of a system delivered in context of a specific solution and as such it may encompass description of an entire system or only its specific parts Definition of a solution architecture is typically led by a solution architect The AWS Certified Solutions Architect Associate SAA SAA C03 exam is intended for individuals who perform in a solutions architect role The exam validates a candidate s ability to use AWS technologies to design solutions based on the AWS Well Architected Framework including Design solutions that incorporate AWS services to meet current business requirements and future projected needs Design architectures that are secure resilient high performing and cost

optimized Review existing solutions and determine improvements Become stronger in your current role or prepare to step into a new one by continuing to build the cloud solutions architecture skills companies are begging for right now Demand for cloud solutions architect proficiency is only set to increase so you can expect to see enormous ROI on any cloud learning efforts you embark on What will you learn in this book Design Secure Architectures Design Resilient Architectures Design High Performing Architectures Design Cost Optimized Architectures What are the requirements or prerequisites for reading this book The target candidate should have at least 1 year of hands on experience designing cloud solutions that use AWS services Who is this book for IT Professionals Solutions Architect Cloud enthusiasts Computer Science and Engineering Students AWS Cloud Developer Technology Manager and Executives IT Project Managers What is taught in this book AWS Certification Preparation for Solutions Architecture Associate Level Key tools technologies and concepts covered Compute Cost management Database Disaster recovery High performance Management and governance Microservices and component decoupling Migration and data transfer Networking connectivity and content delivery Resiliency Security Serverless and event driven design principles Storage Some New AWS services covered AWS Data Exchange AWS Data Pipeline AWS Lake Formation Amazon Managed Streaming for Apache Kafka Amazon AppFlow AWS Outposts VMware Cloud on AWS AWS Wavelength Amazon Neptune Amazon Quantum Ledger Database Amazon Timestream AWS Amplify Amazon Comprehend Amazon Forecast Amazon Fraud Detector Amazon Kendra AWS License Manager Amazon Managed Grafana Amazon Managed Service for Prometheus AWS Proton Amazon Elastic Transcoder Amazon Kinesis Video Streams AWS Application Discovery Service AWS WAF Serverless AWS AppSync etc Table of contents Design Secure Architectures Description Design Secure Architectures Cheat Sheets Design Secure Architectures Flashcards Design Secure Architectures Illustrations Design Secure Architectures Quiz Design Resilient Architectures Quiz Design High Performing Architectures Description Design High Performing Architectures Cheat Sheets Design High Performing Architectures Illustrations Design High Performing Architectures Quiz Design Cost Optimized Architectures Description Design Cost Optimized Architectures Cheat Sheets Design Cost Optimized Architectures Illustrations Design Cost Optimized Architectures Quiz Top 50 AWS Recommended Security Best Practices AWS SAA FAQs Practice Exam 69 Questions Answers Passed AWS SAA C03 Testimonials AWS Networking ENI vs EFA vs ENA What are the top 10 tips and tricks to do to Ace the 2023 AWS Certified Solutions Architect SAA C03 Exam An Insightful Overview of SAA C03 Exam Topics Encountered Reflecting on My SAA C03 Exam Journey From Setback to Success Mobile App Version of the AWS Solutions Architect Associates SAA C03 Certification Exam Prep Book Android <https://play.google.com/store/apps/details?id=com.awssolutionarchitectassociateexamprepro> app iOS <https://apps.apple.com/ca/app/solution-architect-assoc-pro/id1501465417> Windows 10 11 <https://www.microsoft.com/en-ca/store/p/aws-cert-solution-architect-associate-prep-pro/9pcn58wdr1qr> Keywords AWS Solutions Architect SAA C03 Certification Etienne Noumen AWS Cloud expertise Practice Exams AWS Flashcards AWS CheatSheets Testimonials Exam preparation AWS exam

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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 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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