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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 docs aws amazon com route53 latest developerguide routing policy html get the print version of the book at amazon at amzn to 40y4c use discount code djamgatech2024 for 50 off

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and resilient cloud architectures the book begins by establishing foundational principles of message oriented middleware delving into real world event flow modeling trade offs in message semantics and integration with microservices it systematically compares sqs to sibling aws services such as sns and eventbridge providing clear decision frameworks for architects and engineers selecting messaging platforms for complex cloud environments the core of the book offers a deep dive into sqs features covering both standard and fifo queues advanced error handling with dead letter queues batch operations and message visibility management security and compliance are given comprehensive treatment with sections on designing robust iam policies encryption audit monitoring and threat modeling readers benefit from practical patterns for integration including aws lambda step functions on premises and multi cloud scenarios as well as anti patterns and design pitfalls to avoid in production systems operational excellence is achieved through emphasis on monitoring tracing disaster recovery and automated infrastructure as code using leading aws tools advanced topics incorporate scaling and throughput engineering handling large payloads achieving idempotency transactional messaging and multi region patterns the book is richly illustrated with real world case studies from enterprise iot serverless and devops automation domains looking forward it explores emerging serverless patterns sqs ecosystem tools integration with machine learning workflows and the ongoing evolution of aws messaging services offering both pragmatic guidance and strategic foresight for the modern cloud practitioner

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