

SAA-C03^{Q&As}

AWS Certified Solutions Architect - Associate (SAA-C03)

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QUESTION 1

A company wants to build a scalable key management Infrastructure to support developers who need to encrypt data in their applications. What should a solutions architect do to reduce the operational burden?

- A. Use multifactor authentication (MFA) to protect the encryption keys.
- B. Use AWS Key Management Service (AWS KMS) to protect the encryption keys
- C. Use AWS Certificate Manager (ACM) to create, store, and assign the encryption keys
- D. Use an IAM policy to limit the scope of users who have access permissions to protect the encryption keys

Correct Answer: B

<https://aws.amazon.com/kms/faqs/#:~:text=If%20you%20are%20a%20developer%20who%20needs%20to%20digitally,a%20broad%20set%20of%20industry%20and%20regional%20compliance%20regimes.>

QUESTION 2

A company has a serverless application on AWS that uses Amazon RDS as a backend database. The application sometimes experiences a sudden unpredictable increase in traffic. During traffic increases, the application frequently opens and closes connections to the database, which causes the application to receive errors from the database or run out of connections. The company needs to ensure that the application is always scalable and highly available.

Which solution will meet these requirements WITHOUT any code changes to the application?

- A. Increase the maximum number of connections in the option group of the RDS database of the serverless application.
- B. Increase the instance size of the RDS DB instance to meet the peak load traffic.
- C. Deploy Amazon RDS Proxy between the serverless application and Amazon RDS.
- D. Purchase Reserved Instances for Amazon RDS to ensure that the database is highly available during peak load traffic.

Correct Answer: C

Amazon RDS Proxy is a fully managed database proxy that makes applications more scalable, more resilient to database failures, and more secure. RDS Proxy sits between your application and your relational database to pool and share established database connections, improving database efficiency and application scalability. RDS Proxy also reduces the load on the database by handling connection management and query retries for transient errors. By deploying RDS Proxy between your serverless application and Amazon RDS, you can avoid opening and closing connections to the database frequently, which can cause errors or run out of connections. This solution will also reduce operational costs and improve availability of your application. References: <https://aws.amazon.com/rds/proxy/>

QUESTION 3

A company wants to create a mobile app that allows users to stream slow-motion video clips on their mobile devices. Currently, the app captures video clips and uploads the video clips in raw format into an Amazon S3 bucket. The app retrieves these video clips directly from the S3 bucket. However, the videos are large in their raw format.

Users are experiencing issues with buffering and playback on mobile devices. The company wants to implement solutions to maximize the performance and scalability of the app while minimizing operational overhead.

Which combination of solutions will meet these requirements? (Select TWO.)

- A. Deploy Amazon CloudFront for content delivery and caching
- B. Use AWS DataSync to replicate the video files across AWS Regions in other S3 buckets
- C. Use Amazon Elastic Transcoder to convert the video files to more appropriate formats
- D. Deploy an Auto Scaling group of Amazon EC2 instances in Local Zones for content delivery and caching
- E. Deploy an Auto Scaling group of Amazon EC2 instances to convert the video files to more appropriate formats

Correct Answer: AC

Amazon CloudFront is a content delivery network (CDN) that can help improve the performance and scalability of the app by caching content at edge locations, reducing latency, and improving the delivery of video clips to users. CloudFront can also provide features such as DDoS protection, SSL/TLS encryption, and content compression to optimize the delivery of video clips.

Amazon Elastic Transcoder is a service that can help optimize the video format for mobile devices, reducing the size of the video files, and improving the playback performance. Elastic Transcoder can also convert videos into multiple formats to support different devices and platforms.

QUESTION 4

A company is building a new web-based customer relationship management application. The application will use several Amazon EC2 instances that are backed by Amazon Elastic Block Store (Amazon EBS) volumes behind an Application Load Balancer (ALB). The application will also use an Amazon Aurora database. All data for the application must be encrypted at rest and in transit.

Which solution will meet these requirements?

- A. Use AWS Key Management Service (AWS KMS) certificates on the ALB to encrypt data in transit. Use AWS Certificate Manager (ACM) to encrypt the EBS volumes and Aurora database storage at rest.
- B. Use the AWS root account to log in to the AWS Management Console. Upload the company's encryption certificates. While in the root account, select the option to turn on encryption for all data at rest and in transit for the account.
- C. Use a AWS Key Management Service (AWS KMS) to encrypt the EBS volumes and Aurora database storage at rest. Attach an AWS Certificate Manager (ACM) certificate to the ALB to encrypt data in transit.
- D. Use BitLocker to encrypt all data at rest. Import the company's TLS certificate keys to AWS key Management Service (AWS KMS). Attach the KMS keys to the ALB to encrypt data in transit.

Correct Answer: C

QUESTION 5

A corporation has recruited a new cloud engineer who should not have access to the CompanyConfidential Amazon S3

bucket. The cloud engineer must have read and write permissions on an S3 bucket named AdminTools.

Which IAM policy will satisfy these criteria?

- A. Text, letter
- B. Text
- C. Text, application
- D. Text, application

Correct Answer: A

https://docs.amazonaws.cn/en_us/IAM/latest/UserGuide/reference_policies_examples_s3_rw-bucket.html

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