



# SCS-C01<sup>Q&As</sup>

AWS Certified Security - Specialty (SCS-C01)





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### QUESTION 1

A company has a large set of keys defined in AWS KMS. Their developers frequently use the keys for the applications being developed. What is one of the ways that can be used to reduce the cost of accessing the keys in the AWS KMS service.

Please select:

- A. Enable rotation of the keys
- B. Use Data key caching
- C. Create an alias of the key
- D. Use the right key policy

Correct Answer: B

The AWS Documentation mentions the following Data key caching stores data keys and related cryptographic material in a cache. When you encrypt or decrypt data, the AWS Encryption SDK looks for a matching data key in the cache. If it finds a match, it uses the cached data key rather than generating a new one. Data key caching can improve performance, reduce cost, and help you stay within service limits as your application scales. Option A, C and D are all incorrect since these options will not impact how the key is used. For more information on data key caching, please refer to below URL: <https://docs.aws.amazon.com/encryption-sdk/latest/developer-guide/data-key-caching.html> The correct answer is: Use Data key caching

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### QUESTION 2

A Development team has asked for help configuring the IAM roles and policies in a new AWS account. The team using the account expects to have hundreds of master keys and therefore does not want to manage access control for customer master keys (CMKs). Which of the following will allow the team to manage AWS KMS permissions in IAM without the complexity of editing individual key policies?

- A. The account's CMK key policy must allow the account's IAM roles to perform KMS EnableKey.
- B. Newly created CMKs must have a key policy that allows the root principal to perform all actions.
- C. Newly created CMKs must allow the root principal to perform the kms CreateGrant API operation.
- D. Newly created CMKs must mirror the IAM policy of the KMS key administrator.

Correct Answer: B

<https://docs.aws.amazon.com/kms/latest/developerguide/key-policies.html#key-policy-default-allow-rootenable-iam>

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### QUESTION 3

A company hosts a critical web application on the AWS Cloud. This is a key revenue generating application for the company. The IT Security team is worried about potential DDoS attacks against the web site. The senior management has also specified that immediate action needs to be taken in case of a potential DDoS attack. What should be done in this regard?



Please select:

- A. Consider using the AWS Shield Service
- B. Consider using VPC Flow logs to monitor traffic for DDos attack and quickly take actions on a trigger of a potential attack.
- C. Consider using the AWS Shield Advanced Service
- D. Consider using Cloudwatch logs to monitor traffic for DDos attack and quickly take actions on a trigger of a potential attack.

Correct Answer: C

Option A is invalid because the normal AWS Shield Service will not help in immediate action against a DDos attack. This can be done via the AWS Shield Advanced Service Option B is invalid because this is a logging service for VPCs traffic flow but cannot specifically protect against DDos attacks. Option D is invalid because this is a logging service for AWS Services but cannot specifically protect against DDos attacks. The AWS Documentation mentions the following AWS Shield Advanced provides enhanced protections for your applications running on Amazon EC2. Elastic Load Balancing (ELB), Amazon CloudFront and Route 53 against larger and more sophisticated attacks. AWS Shield Advanced is available to AWS Business Support and AWS Enterprise Support customers. AWS Shield Advanced protection provides always-on, flow-based monitoring of network traffic and active application monitoring to provide near real-time notifications of DDoS attacks. AWS Shield Advanced also gives customers highly flexible controls over attack mitigations to take actions instantly. Customers can also engage the DDoS Response Team (DRT) 24X7 to manage and mitigate their application layer DDoS attacks. For more information on AWS Shield, please visit the below URL: <https://aws.amazon.com/shield/faqs>; The correct answer is: Consider using the AWS Shield Advanced Service

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#### QUESTION 4

An organization has a system in AWS that allows a large number of remote workers to submit data files. File sizes vary from a few kilobytes to several megabytes. A recent audit highlighted a concern that data files are not encrypted while in transit over untrusted networks.

Which solution would remediate the audit finding while minimizing the effort required?

- A. Upload an SSL certificate to IAM, and configure Amazon CloudFront with the passphrase for the private key.
- B. Call KMS.Encrypt() in the client, passing in the data file contents, and call KMS.Decrypt() server-side.
- C. Use AWS Certificate Manager to provision a certificate on an Elastic Load Balancing in front of the web service's servers.
- D. Create a new VPC with an Amazon VPC VPN endpoint, and update the web service's DNS record.

Correct Answer: C

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#### QUESTION 5

A Security Engineer must implement mutually authenticated TLS connections between containers that communicate inside a VPC.

Which solution would be MOST secure and easy to maintain?



- A. Use AWS Certificate Manager to generate certificates from a public certificate authority and deploy them to all the containers.
- B. Create a self-signed certificate in one container and use AWS Secrets Manager to distribute the certificate to the other containers to establish trust.
- C. Use AWS Certificate Manager Private Certificate Authority (ACM PCA) to create a subordinate certificate authority, then create the private keys in the containers and sign them using the ACM PCA API.
- D. Use AWS Certificate Manager Private Certificate Authority (ACM PCA) to create a subordinate certificate authority, then use AWS Certificate Manager to generate the private certificates and deploy them to all the containers.

Correct Answer: D

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