



Free Questions for SCS-C02

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Question 1

Question Type: MultipleChoice

A company uses AWS Signer with all of the company's AWS Lambda functions. A developer recently stopped working for the company. The company wants to ensure that all the code that the developer wrote can no longer be deployed to the Lambda functions.

Which solution will meet this requirement?

Options:

- A- Revoke all versions of the signing profile assigned to the developer.
- B- Examine the developer's IAM roles. Remove all permissions that grant access to Signer.
- C- Re-encrypt all source code with a new AWS Key Management Service (AWS KMS) key.
- D- Use Amazon CodeGuru to profile all the code that the Lambda functions use.

Answer:

A

Explanation:

The correct answer is A. Revoke all versions of the signing profile assigned to the developer.

According to the [AWS documentation](#)¹, AWS Signer is a fully managed code-signing service that helps you ensure the trust and integrity of your code. You can use Signer to sign code artifacts, such as Lambda deployment packages, with code-signing certificates that you control and manage.

A signing profile is a collection of settings that Signer uses to sign your code artifacts. A signing profile includes information such as the following:

The type of signature that you want to create (for example, a code-signing signature).

The signing algorithm that you want Signer to use to sign your code.

The code-signing certificate and its private key that you want Signer to use to sign your code.

You can create multiple versions of a signing profile, each with a different code-signing certificate. You can also revoke a version of a signing profile if you no longer want to use it for signing code artifacts.

In this case, the company wants to ensure that all the code that the developer wrote can no longer be deployed to the Lambda functions. One way to achieve this is to revoke all versions of

the signing profile that was assigned to the developer. This will prevent Signer from using that signing profile to sign any new code artifacts, and also invalidate any existing signatures that were created with that signing profile. This way, the company can ensure that only trusted and authorized code can be deployed to the Lambda functions.

The other options are incorrect because:

B) Examining the developer's IAM roles and removing all permissions that grant access to Signer may not be sufficient to prevent the deployment of the developer's code. The developer may have already signed some code artifacts with a valid signing profile before leaving the company, and those signatures may still be accepted by Lambda unless the signing profile is revoked.

C) Re-encrypting all source code with a new AWS Key Management Service (AWS KMS) key may not be effective or practical. AWS KMS is a service that lets you create and manage encryption keys for your data. However, Lambda does not require encryption keys for deploying code artifacts, only valid signatures from Signer. Therefore, re-encrypting the source code may not prevent the deployment of the developer's code if it has already been signed with a valid signing profile. Moreover, re-encrypting all source code may be time-consuming and disruptive for other developers who are working on the same code base.

D) Using Amazon CodeGuru to profile all the code that the Lambda functions use may not help with preventing the deployment of the developer's code. Amazon CodeGuru is a service that provides intelligent recommendations to improve your code quality and identify an application's most expensive lines of code. However, CodeGuru does not perform any security checks or validations on your code artifacts, nor does it interact with Signer or Lambda in any way. Therefore, using CodeGuru may not prevent unauthorized or untrusted code from being deployed to the Lambda functions.

[1: What is AWS Signer? - AWS Signer](#)

Question 2

Question Type: MultipleChoice

A company's public Application Load Balancer (ALB) recently experienced a DDoS attack. To mitigate this issue, the company deployed Amazon CloudFront in front of the ALB so that users would not directly access the Amazon EC2 instances behind the ALB.

The company discovers that some traffic is still coming directly into the ALB and is still being handled by the EC2 instances.

Which combination of steps should the company take to ensure that the EC2 instances will receive traffic only from CloudFront? (Choose two.)

Options:

- A- Configure CloudFront to add a cache key policy to allow a custom HTTP header that CloudFront sends to the ALB.
- B- Configure CloudFront to add a custom: HTTP header to requests that CloudFront sends to the ALB.
- C- Configure the ALB to forward only requests that contain the custom HTTP header.
- D- Configure the ALB and CloudFront to use the X-Forwarded-For header to check client IP addresses.
- E- Configure the ALB and CloudFront to use the same X.509 certificate that is generated by AWS Certificate Manager (ACM).

Answer:

B, C

Explanation:

To prevent users from directly accessing an Application Load Balancer and allow access only through CloudFront, complete these high-level steps: Configure CloudFront to add a custom HTTP header to requests that it sends to the Application Load Balancer. Configure the Application Load Balancer to only forward requests that contain the custom HTTP header. (Optional) Require HTTPS to improve the security of this solution.

<https://docs.aws.amazon.com/AmazonCloudFront/latest/DeveloperGuide/restrict-access-to-load-balancer.html>

Question 3

Question Type: MultipleChoice

An AWS Lambda function was misused to alter data, and a security engineer must identify who invoked the function and what output was produced. The engineer cannot find any logs created by the Lambda function in Amazon CloudWatch Logs.

Which of the following explains why the logs are not available?

Options:

- A- The execution role for the Lambda function did not grant permissions to write log data to CloudWatch Logs.
- B- The Lambda function was invoked by using Amazon API Gateway, so the logs are not stored in

CloudWatch Logs.

C- The execution role for the Lambda function did not grant permissions to write to the Amazon S3 bucket where CloudWatch Logs stores the logs.

D- The version of the Lambda function that was invoked was not current.

Answer:

A

Question 4

Question Type: MultipleChoice

A company is expanding its group of stores. On the day that each new store opens, the company wants to launch a customized web application for that store. Each store's application will have a non-production environment and a production environment. Each environment will be deployed in a separate AWS account. The company uses AWS Organizations and has an OU that is used only for these accounts.

The company distributes most of the development work to third-party development teams. A security engineer needs to ensure that each team follows the company's

deployment plan for AWS resources. The security engineer also must limit access to the deployment plan to only the developers who need access. The security engineer already has created an AWS CloudFormation template that implements the deployment plan.

What should the security engineer do next to meet the requirements in the MOST secure way?

A. Create an AWS Service Catalog portfolio in the organization's management account. Upload the CloudFormation template. Add the template to the portfolio's product list. Share the portfolio with the OIJ.

B. Use the CloudFormation CLI to create a module from the CloudFormation template. Register the module as a private extension in the CloudFormation registry. Publish the extension. In the OU, create an SCP that allows access to the extension.

C. Create an AWS Service Catalog portfolio in the organization's management account. Upload the CloudFormation template. Add the template to the portfolio's product list. Create an IAM role that has a trust policy that allows cross-account access to the portfolio for users in the OU accounts. Attach the AWSServiceCatalogEndUserFullAccess managed policy to the role.

D. Use the CloudFormation CLI to create a module from the CloudFormation template. Register the module as a private extension in the CloudFormation registry. Publish the extension. Share the extension with the OU

Options:

A- Create an AWS Service Catalog portfolio in the organization's management account. Upload the CloudFormation template. Add the template to the portfolio's product list. Share the portfolio with the OU.

According to the AWS documentation, AWS Service Catalog is a service that allows you to create and manage catalogs of IT services that are approved for use on AWS. You can use Service Catalog to centrally manage commonly deployed IT services and help achieve consistent governance and compliance requirements, while enabling users to quickly deploy only the approved IT services they need.

To use Service Catalog with multiple AWS accounts, you need to enable AWS Organizations with all features enabled. This allows you to centrally manage your accounts and apply policies across your organization. You can also use Service Catalog as a service principal for AWS Organizations, which lets you share your portfolios with organizational units (OUs) or accounts in your organization.

To create a Service Catalog portfolio, you need to use an administrator account, such as the organization's management account. You can upload your CloudFormation template as a product in your portfolio, and define constraints and tags for it. You can then share your portfolio with the OU that contains the accounts for the web applications. This will allow the developers in those accounts to launch products from the shared portfolio using the Service Catalog end user console.

Option B is incorrect because CloudFormation modules are reusable components that encapsulate one or more resources and their configurations. They are not meant to be used as templates for deploying entire stacks of resources. Moreover, sharing a module with an OU does not grant access to launch stacks from it.

Option C is incorrect because creating an IAM role that has a trust policy that allows cross-account access to the portfolio is not secure. It would allow any user in the OU accounts to assume the role and access the portfolio, regardless of their job function or access requirements.

Option D is incorrect because sharing a module with an OU does not grant access to launch stacks from it. It also does not limit access to the deployment plan to only the developers who need access.

Answer:

A

Explanation:

The correct answer is

Question 5

Question Type: MultipleChoice

A company needs complete encryption of the traffic between external users and an application. The company hosts the application on a fleet of Amazon EC2 instances that run in an Auto Scaling group behind an Application Load Balancer (ALB).

How can a security engineer meet these requirements?

Options:

- A- Create a new Amazon-issued certificate in AWS Secrets Manager. Export the certificate from Secrets Manager. Import the certificate into the ALB and the EC2 instances.
- B- Create a new Amazon-issued certificate in AWS Certificate Manager (ACM). Associate the certificate with the ALB. Export the certificate from ACM. Install the certificate on the EC2 instances.
- C- Import a new third-party certificate into AWS Identity and Access Management (IAM). Export the certificate from IAM. Associate the certificate with the ALB and the EC2 instances.
- D- Import a new third-party certificate into AWS Certificate Manager (ACM). Associate the certificate with the ALB. Install the certificate on the EC2 instances.

Answer:

D

Explanation:

The correct answer is D) Import a new third-party certificate into AWS Certificate Manager (ACM). Associate the certificate with the ALB. Install the certificate on the EC2 instances.

This answer is correct because it meets the requirements of complete encryption of the traffic between external users and the application. By importing a third-party certificate into ACM, the security engineer can use it to secure the communication between the ALB and the clients. By installing the same certificate on the EC2 instances, the security engineer can also secure the communication between the ALB and the instances. This way, both the front-end and back-end connections are encrypted with SSL/TLS1.

The other options are incorrect because:

A) Creating a new Amazon-issued certificate in AWS Secrets Manager is not a solution, because AWS Secrets Manager is not a service for issuing certificates, but for storing and managing secrets such as database credentials and API keys². AWS Secrets Manager does not integrate with ALB or EC2 for certificate deployment.

B) Creating a new Amazon-issued certificate in AWS Certificate Manager (ACM) and exporting it from ACM is not a solution, because ACM does not allow exporting Amazon-issued certificates³. ACM only allows exporting private certificates that are issued by an AWS Private Certificate Authority (CA)⁴.

C) Importing a new third-party certificate into AWS Identity and Access Management (IAM) is not a solution, because IAM is not a service for managing certificates, but for controlling access to AWS resources⁵. IAM does not integrate with ALB or EC2 for certificate deployment.

1: How SSL/TLS works 2: What is AWS Secrets Manager? 3: Exporting an ACM Certificate 4: Exporting Private Certificates from ACM 5: What is IAM?

Question 6

Question Type: MultipleChoice

A company used AWS Organizations to set up an environment with multiple AWS accounts. The company's organization currently has two AWS accounts, and the company expects to add more than 50 AWS accounts during the next 12 months. The company will require all existing and future AWS accounts to use Amazon GuardDuty. Each existing AWS account has GuardDuty active. The company reviews GuardDuty findings by logging into each AWS account individually.

The company wants a centralized view of the GuardDuty findings for the existing AWS accounts and any future AWS accounts. The company also must ensure that any new AWS account has GuardDuty automatically turned on.

Which solution will meet these requirements?

Options:

- A- Enable AWS Security Hub in the organization's management account. Configure GuardDuty within the management account to send all GuardDuty findings to Security Hub.
- B- Create a new AWS account in the organization. Enable GuardDuty in the new account. Designate the new account as the delegated administrator account for GuardDuty. Configure GuardDuty to add existing accounts as member accounts. Select the option to automatically add new AWS accounts to the organization.
- C- Create a new AWS account in the organization. Enable GuardDuty in the new account. Enable AWS Security Hub in each account. Select the option to automatically add new AWS accounts to the organization.
- D- Enable AWS Security Hub in the organization's management account. Designate the management account as the delegated administrator account for Security Hub. Add existing accounts as member accounts. Select the option to automatically add new AWS accounts to the organization. Send all Security Hub findings to the organization's GuardDuty account.

Answer:

B

Explanation:

For a company using AWS Organizations that requires centralized management and automatic activation of Amazon GuardDuty across all current and future AWS accounts, setting up a delegated administrator account for GuardDuty is the optimal solution. By enabling GuardDuty in a new account and designating it as the delegated administrator, the company can centrally manage GuardDuty findings and automatically enroll new AWS accounts into GuardDuty as they are created within the organization. This approach ensures consistent threat detection and continuous monitoring across all accounts, aligning with best security practices.

Question 7

Question Type: MultipleChoice

A security engineer wants to forward custom application-security logs from an Amazon EC2 instance to Amazon CloudWatch. The security engineer installs

the CloudWatch agent on the EC2 instance and adds the path of the logs to the CloudWatch configuration file.

However, CloudWatch does not receive the logs. The security engineer verifies that the awslogs service is running on the EC2 instance.

What should the security engineer do next to resolve the issue?

Options:

- A- Add AWS CloudTrail to the trust policy of the EC2 instance. Send the custom logs to CloudTrail instead of CloudWatch.
- B- Add Amazon S3 to the trust policy of the EC2 instance. Configure the application to write the custom logs to an S3 bucket that CloudWatch can use to ingest the logs.
- C- Add Amazon Inspector to the trust policy of the EC2 instance. Use Amazon Inspector instead of the CloudWatch agent to collect the custom logs.
- D- Attach the CloudWatchAgentServerPolicy AWS managed policy to the EC2 instance role.

Answer:

D

Explanation:

The correct answer is D) Attach the CloudWatchAgentServerPolicy AWS managed policy to the EC2 instance role.

According to the AWS documentation¹, the CloudWatch agent is a software agent that you can install on your EC2 instances to collect system-level metrics and logs. To use the CloudWatch agent, you need to attach an IAM role or user to the EC2 instance that grants permissions for the agent to perform actions on your behalf. The CloudWatchAgentServerPolicy is an AWS managed policy that provides the necessary permissions for the agent to write metrics and logs to CloudWatch². By attaching this policy to the EC2 instance role, the security engineer can resolve the issue of CloudWatch not receiving the custom application-security logs.

The other options are incorrect for the following reasons:

A) Adding AWS CloudTrail to the trust policy of the EC2 instance is not relevant, because CloudTrail is a service that records API activity in your AWS account, not custom application logs³. Sending the custom logs to CloudTrail instead of CloudWatch would not meet the requirement of forwarding them to CloudWatch.

B) Adding Amazon S3 to the trust policy of the EC2 instance is not necessary, because S3 is a storage service that does not require any trust relationship with EC2 instances⁴. Configuring the application to write the custom logs to an S3 bucket that CloudWatch can use to ingest the logs would be an alternative solution, but it would be more complex and costly than using the CloudWatch agent directly.

C) Adding Amazon Inspector to the trust policy of the EC2 instance is not helpful, because Inspector is a service that scans EC2 instances for software vulnerabilities and unintended network exposure, not custom application logs⁵. Using Amazon Inspector instead of the CloudWatch agent would not meet the requirement of forwarding them to CloudWatch.

1: Collect metrics, logs, and traces with the CloudWatch agent - Amazon CloudWatch 2: CloudWatchAgentServerPolicy - AWS Managed Policy 3: What Is AWS CloudTrail? - AWS CloudTrail 4: Amazon S3 FAQs - Amazon Web Services 5: Automated Software Vulnerability Management - Amazon Inspector - AWS

Question 8

Question Type: MultipleChoice

A company is hosting a web application on Amazon EC2 instances behind an Application Load

Balancer (ALB). The application has become the target of a DoS attack. Application logging shows that requests are coming from small number of client IP addresses, but the addresses change regularly.

The company needs to block the malicious traffic with a solution that requires the least amount of ongoing effort.

Which solution meets these requirements?

Options:

- A- Create an AWS WAF rate-based rule, and attach it to the ALB.
- B- Update the security group that is attached to the ALB to block the attacking IP addresses.
- C- Update the ALB subnet's network ACL to block the attacking client IP addresses.
- D- Create a AWS WAF rate-based rule, and attach it to the security group of the EC2 instances.

Answer:

A

Question 9

Question Type: MultipleChoice

A security engineer needs to configure an Amazon S3 bucket policy to restrict access to an S3 bucket that is named DOC-EXAMPLE-BUCKET. The policy must allow access to only DOC-EXAMPLE-BUCKET from only the following endpoint: vpce-1a2b3c4d. The policy must deny all access to DOC-EXAMPLE-BUCKET if the specified endpoint is not used.

Which bucket policy statement meets these requirements?

```
"Statement": [  
  {  
    "Sid": "Access-to-specific-VPCE-only",  
    "Principal": "*",  
    "Action": "s3:*",  
    "Effect": "Allow",  
    "Resource": ["arn:aws:s3:::DOC-EXAMPLE-BUCKET",  
                 "arn:aws:s3:::DOC-EXAMPLE-BUCKET/*"],  
    "Condition": {  
      "StringNotEquals": {  
        "aws:sourceVpce": "vpce-1a2b3c4d"  
      }  
    }  
  }  
]
```



```
"Statement": [  
  {  
    "Sid": "Access-to-specific-VPCE-only",  
    "Principal": "*",  
    "Action": "s3:*",  
    "Effect": "Deny",  
    "Resource": ["arn:aws:s3:::DOC-EXAMPLE-BUCKET",  
                 "arn:aws:s3:::DOC-EXAMPLE-BUCKET/*"],  
    "Condition": {  
      "StringNotEquals": {  
        "aws:sourceVpce": "vpce-1a2b3c4d"  
      }  
    }  
  }  
]
```

C.



```

"Statement": [
  {
    "Sid": "Access-to-specific-VPCE-only",
    "Principal": "*",
    "Action": "s3:*",
    "Effect": "Deny",
    "Resource": ["arn:aws:s3:::DOC-EXAMPLE-BUCKET",
                 "arn:aws:s3:::DOC-EXAMPLE-BUCKET/*"],
    "Condition": {
      "StringEquals": {
        "aws:sourceVpce": "vpce-1a2b3c4d"
      }
    }
  }
]

```

D.

```

"Statement": [
  {
    "Sid": "Access-to-specific-VPCE-only",
    "Principal": "*",
    "Action": "s3:*",
    "Effect": "Allow",
    "Resource": ["arn:aws:s3:::DOC-EXAMPLE-BUCKET",
                 "arn:aws:s3:::DOC-EXAMPLE-BUCKET/*"],
    "Condition": {
      "StringEquals": {
        "aws:sourceVpce": "vpce-1a2b3c4d"
      }
    }
  }
]

```

Options:

- A- Option A
- B- Option B
- C- Option C
- D- Option D

Answer:

B

Explanation:

<https://docs.aws.amazon.com/AmazonS3/latest/userguide/example-bucket-policies-vpc-endpoint.html>

Question 10

Question Type: MultipleChoice

To meet regulatory requirements, a Security Engineer needs to implement an IAM policy that restricts the use of AWS services to the us-east-1 Region.


What policy should the Engineer implement?

A.

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": "*",
      "Resource": "*",
      "Condition": {
        "StringEquals": {
          "aws:RequestedRegion": "us-east-1"
        }
      }
    }
  ]
}
```

B.

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": "*",
      "Resource": "*",
      "Condition": {
        "StringEquals": {
          "ec2:Region": "us-east-1"
        }
      }
    }
  ]
}
```



C.

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Deny",
      "Action": "*",
      "Resource": "*",
      "Condition": {
        "StringNotEquals": {
          "aws:RequestedRegion": "us-east-1"
        }
      }
    }
  ]
}
```



D.

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Deny",
      "NotAction": "*",
      "Resource": "*",
      "Condition": {
        "StringEquals": {
          "aws:RequestedRegion": "us-east-1"
        }
      }
    }
  ]
}
```



Options:

- A- Option A
- B- Option B
- C- Option C
- D- Option D

Answer:

C

Explanation:

https://docs.aws.amazon.com/IAM/latest/UserGuide/reference_policies_examples_aws_deny-requested-region.html



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