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# Question 1

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## Question Type: MultipleChoice

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A company has deployed Amazon GuardDuty and now wants to implement automation for potential threats. The company has decided to start with RDP brute force attacks that come from Amazon EC2 instances in the company's AWS environment. A security engineer needs to implement a solution that blocks the detected communication from a suspicious instance until investigation and potential remediation can occur.

Which solution will meet these requirements?

### Options:

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- A-** Configure GuardDuty to send the event to an Amazon Kinesis data stream. Process the event with an Amazon Kinesis Data Analytics for Apache Flink application that sends a notification to the company through Amazon Simple Notification Service (Amazon SNS). Add rules to the network ACL to block traffic to and from the suspicious instance.
- B-** Configure GuardDuty to send the event to Amazon EventBridge (Amazon CloudWatch Events). Deploy an AWS WAF web ACL. Process the event with an AWS Lambda function that sends a notification to the company through Amazon Simple Notification Service (Amazon SNS) and adds a web ACL rule to block traffic to and from the suspicious instance.
- C-** Enable AWS Security Hub to ingest GuardDuty findings and send the event to Amazon EventBridge (Amazon CloudWatch Events). Deploy AWS Network Firewall. Process the event with an AWS Lambda function that adds a rule to a Network Firewall firewall policy to block traffic to and from the suspicious instance.

**D-** Enable AWS Security Hub to ingest GuardDuty findings. Configure an Amazon Kinesis data stream as an event destination for Security Hub. Process the event with an AWS Lambda function that replaces the security group of the suspicious instance with a security group that does not allow any connections.

**Answer:**

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C

**Explanation:**

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<https://aws.amazon.com/blogs/security/automatically-block-suspicious-traffic-with-aws-network-firewall-and-amazon-guardduty/>

## Question 2

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**Question Type:** MultipleChoice

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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:

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- 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:

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B, C

### Explanation:

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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

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### Question Type: MultipleChoice

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A security engineer is creating an AWS Lambda function. The Lambda function needs to use a role that is named LambdaAuditRole to assume a role that is named AcmeAuditFactoryRole in a different AWS account.

When the code is processed, the following error message appears: "An error occurred (AccessDenied) when calling the AssumeRole operation."

Which combination of steps should the security engineer take to resolve this error? (Select TWO.)

### Options:

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- A-** Ensure that LambdaAuditRole has the sts:AssumeRole permission for AcmeAuditFactoryRole.
- B-** Ensure that LambdaAuditRole has the AWSLambdaBasicExecutionRole managed policy attached.
- C-** Ensure that the trust policy for AcmeAuditFactoryRole allows the sts:AssumeRole action from LambdaAuditRole.
- D-** Ensure that the trust policy for LambdaAuditRole allows the sts:AssumeRole action from the lambda.amazonaws.com service.
- E-** Ensure that the sts:AssumeRole API call is being issued to the us-east-1 Region endpoint.

### Answer:

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A, C

## Question 4

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**Question Type:** MultipleChoice

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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:

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- 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:

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A

## Question 5

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**Question Type:** MultipleChoice

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A company's Security Engineer has been tasked with restricting a contractor's IAM account access to the company's Amazon EC2 console without providing access to any other AWS services. The contractor's IAM account must not be able to gain access to any other AWS service, even if the IAM account is assigned additional permissions based on IAM group membership.

What should the Security Engineer do to meet these requirements?

### Options:

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- A-** Create an Inline IAM user policy that allows for Amazon EC2 access for the contractor's IAM user.
- B-** Create an IAM permissions boundary policy that allows Amazon EC2 access. Associate the contractor's IAM account with the IAM permissions boundary policy.
- C-** Create an IAM group with an attached policy that allows for Amazon EC2 access. Associate the contractor's IAM account with the IAM group.
- D-** Create an IAM role that allows for EC2 and explicitly denies all other services. Instruct the contractor to always assume this role.

**Answer:**

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B

## Question 6

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**Question Type:** MultipleChoice

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A company purchased a subscription to a third-party cloud security scanning solution that integrates with AWS Security Hub. A security engineer needs to implement a solution that will remediate the findings

from the third-party scanning solution automatically.

Which solution will meet this requirement?

**Options:**

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**A-** Set up an Amazon EventBridge rule that reacts to new Security Hub findings. Configure an AWS Lambda function as the target for the rule to remediate the findings.

**B-** Set up a custom action in Security Hub. Configure the custom action to call AWS Systems Manager Automation runbooks to remediate the findings.

**C-** Set up a custom action in Security Hub. Configure an AWS Lambda function as the target for the custom action to remediate the findings.



**D-** Set up AWS Config rules to use AWS Systems Manager Automation runbooks to remediate the findings.

**Answer:**

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A

## Question 7

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**Question Type: MultipleChoice**

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A company used a lift-and-shift approach to migrate from its on-premises data centers to the AWS Cloud. The company migrated on-premises VMS to Amazon EC2 in-stances. Now the company wants to replace some of components that are running on the EC2 instances with managed AWS services that provide similar functionality.

Initially, the company will transition from load balancer software that runs on EC2 instances to AWS Elastic Load Balancers. A security engineer must ensure that after this transition, all the load balancer logs are centralized and searchable for auditing. The security engineer must also ensure that metrics are generated to show which ciphers are in use.

Which solution will meet these requirements?

**Options:**

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- A-** Create an Amazon CloudWatch Logs log group. Configure the load balancers to send logs to the log group. Use the CloudWatch Logs console to search the logs. Create CloudWatch Logs filters on the logs for the required metrics.
- B-** Create an Amazon S3 bucket. Configure the load balancers to send logs to the S3 bucket. Use Amazon Athena to search the logs that are in the S3 bucket. Create Amazon CloudWatch filters on the S3 log files for the required metrics.
- C-** Create an Amazon S3 bucket. Configure the load balancers to send logs to the S3 bucket. Use Amazon Athena to search the logs that are in the S3 bucket. Create Athena queries for the required metrics. Publish the metrics to Amazon CloudWatch.
- D-** Create an Amazon CloudWatch Logs log group. Configure the load balancers to send logs to the log group. Use the AWS Management Console to search the logs. Create Amazon Athena queries for the required metrics. Publish the metrics to Amazon CloudWatch.

**Answer:**

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C

**Explanation:**

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Amazon S3 is a service that provides scalable, durable, and secure object storage. You can use Amazon S3 to store and retrieve any amount of data from anywhere on the web<sup>1</sup>

AWS Elastic Load Balancing is a service that distributes incoming application or network traffic across multiple targets, such as EC2 instances, containers, or IP addresses. You can use Elastic Load Balancing to increase the availability and fault tolerance of your applications<sup>2</sup>

Elastic Load Balancing supports access logging, which captures detailed information about requests sent to your load balancer. Each log contains information such as the time the request was received, the client's IP address, latencies, request paths, and server responses. You can use access logs to analyze traffic patterns and troubleshoot issues<sup>3</sup>

You can configure your load balancer to store access logs in an Amazon S3 bucket that you specify. You can also specify the interval for publishing the logs, which can be 5 or 60 minutes. The logs are stored in a hierarchical folder structure by load balancer name, IP address, year, month, day, and time.

Amazon Athena is a service that allows you to analyze data in Amazon S3 using standard SQL. You can use Athena to run ad-hoc queries and get results in seconds. Athena is serverless, so there is no infrastructure to manage and you pay only for the queries that you run.

You can use Athena to search the access logs that are stored in your S3 bucket. You can create a table in Athena that maps to your S3 bucket and then run SQL queries on the table. You can also use the Athena console or API to view and download the query results.

You can also use Athena to create queries for the required metrics, such as the number of requests per cipher or protocol. You can then publish the metrics to Amazon CloudWatch, which is a service that monitors and manages your AWS resources and applications. You can use CloudWatch to collect and track metrics, create alarms, and automate actions based on the state of your resources.

By using this solution, you can meet the requirements of ensuring that all the load balancer logs are centralized and searchable for auditing and that metrics are generated to show which ciphers are in use.

## Question 8

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**Question Type: MultipleChoice**

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A company uses several AWS CloudFormation stacks to handle the deployment of a suite of applications. The leader of the company's application development team notices that the stack deployments fail with permission errors when some team members try to deploy the stacks. However, other team members can deploy the stacks successfully.

The team members access the account by assuming a role that has a specific set of permissions that are necessary for the job responsibilities of the team members. All team members have permissions to perform operations on the stacks.

Which combination of steps will ensure consistent deployment of the stacks MOST securely? (Select THREE.)

**Options:**

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- A-** Create a service role that has a composite principal that contains each service that needs the necessary permissions. Configure the role to allow the sts:AssumeRole action.
- B-** Create a service role that has cloudformation.amazonaws.com as the service principal. Configure the role to allow the sts:AssumeRole action.
- C-** For each required set of permissions, add a separate policy to the role to allow those permissions. Add the ARN of each CloudFormation stack in the resource field of each policy.
- D-** For each required set of permissions, add a separate policy to the role to allow those permissions. Add the ARN of each service that needs the per-missions in the resource field of the corresponding policy.
- E-** Update each stack to use the service role.

**F-** Add a policy to each member role to allow the iam:PassRole action. Set the policy's resource field to the ARN of the service role.

**Answer:**

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B, D, F

## Question 9

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**Question Type: MultipleChoice**

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A company has an application that uses dozens of Amazon DynamoDB tables to store data.

a. Auditors find that the tables do not comply with the company's data protection policy.

The company's retention policy states that all data must be backed up twice each month: once at midnight on the 15th day of the month and again at midnight on the 25th day of the month. The company must retain the backups for 3 months.

Which combination of steps should a security engineer take to meet these requirements? (Select TWO.)

**Options:**

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**A-** Use the DynamoDB on-demand backup capability to create a backup plan. Configure a lifecycle policy to expire backups after 3 months.

- B-** Use AWS DataSync to create a backup plan. Add a backup rule that includes a retention period of 3 months.
- C-** Use AVVS Backup to create a backup plan. Add a backup rule that includes a retention period of 3 months.
- D-** Set the backup frequency by using a cron schedule expression. Assign each DynamoDB table to the backup plan.
- E-** Set the backup frequency by using a rate schedule expression. Assign each DynamoDB table to the backup plan.

**Answer:**

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A, D

## Question 10

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**Question Type: MultipleChoice**

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A company has an organization in AWS Organizations. The company wants to use AWS CloudFormation StackSets in the organization to deploy various AWS design patterns into environments. These patterns consist of Amazon EC2 instances, Elastic Load Balancing (ELB) load balancers, Amazon RDS databases, and Amazon Elastic Kubernetes Service (Amazon EKS) clusters or Amazon Elastic Container Service (Amazon ECS) clusters.

Currently, the company's developers can create their own CloudFormation stacks to increase the overall speed of delivery. A centralized CI/CD pipeline in a shared services AWS account deploys each CloudFormation stack.

The company's security team has already provided requirements for each service in accordance with internal standards. If there are any resources that do not comply with the internal standards, the security team must receive notification to take appropriate action. The

security team must implement a notification solution that gives developers the ability to maintain the same overall delivery speed that they currently have.

Which solution will meet these requirements in the MOST operationally efficient way?

### Options:

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**A-** Create an Amazon Simple Notification Service (Amazon SNS) topic. Subscribe the security team's email addresses to the SNS topic. Create a custom AWS Lambda function that will run the `aws cloudformation validate-template` AWS CLI command on all CloudFormation templates before the build stage in the CI/CD pipeline. Configure the CI/CD pipeline to publish a notification to the SNS topic if any issues are found.

**B-** Create an Amazon Simple Notification Service (Amazon SNS) topic. Subscribe the security team's email addresses to the SNS topic. Create custom rules in CloudFormation Guard for each resource configuration. In the CI/CD pipeline, before the build stage, configure a Docker image to run the `cfn-guard` command on the CloudFormation template. Configure the CI/CD pipeline to publish a notification to the SNS topic if any issues are found.

**C-** Create an Amazon Simple Notification Service (Amazon SNS) topic and an Amazon Simple Queue Service (Amazon SQS) queue. Subscribe the security team's email addresses to the SNS topic. Create an Amazon S3 bucket in the shared services AWS account. Include an event notification to publish to the SQS queue when new objects are added to the S3 bucket. Require the developers to put their CloudFormation templates in the S3 bucket. Launch EC2 instances that automatically scale based on the SQS queue depth. Configure the EC2 instances to use CloudFormation Guard to scan the templates and deploy the templates if there are no issues. Configure the CI/CD pipeline to publish a notification to the SNS topic if any issues are found.

**D-** Create a centralized CloudFormation stack set that includes a standard set of resources that the developers can deploy in each AWS account. Configure each CloudFormation template to meet the security requirements. For any new resources or configurations, update the CloudFormation template and send the template to the security team for review. When the review is completed, add the new

CloudFormation stack to the repository for the devel-ops to use.

**Answer:**

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B



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