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QUESTION 1

A company's security policy requires that VPC Flow Logs are enabled on all VPCs. A Security Engineer is looking to automate the process of auditing the VPC resources for compliance. What combination of actions should the Engineer take? (Choose two.)

- A. Create an IAM Lambda function that determines whether Flow Logs are enabled for a given VPC.
- B. Create an IAM Config configuration item for each VPC in the company IAM account.
- C. Create an IAM Config managed rule with a resource type of IAM:: Lambda:: Function.
- D. Create an Amazon CloudWatch Event rule that triggers on events emitted by IAM Config.
- E. Create an IAM Config custom rule, and associate it with an IAM Lambda function that contains the evaluating logic.

Correct Answer: AE

Explanation: <https://medium.com/mudita-misra/how-to-audit-your-aws-resources-for-security-compliance-by-using-custom-IAM-config-rules-2e53b09006de>

QUESTION 2

A company needs to encrypt all of its data stored in Amazon S3. The company wants to use IAM Key Management Service (IAM KMS) to create and manage its encryption keys. The company's security policies require the ability to Import the company's own key material for the keys, set an expiration date on the keys, and delete keys immediately, if needed.

How should a security engineer set up IAM KMS to meet these requirements?

- A. Configure IAM KMS and use a custom key store. Create a customer managed CMK with no key material Import the company's keys and key material into the CMK
- B. Configure IAM KMS and use the default Key store Create an IAM managed CMK with no key material Import the company's key material into the CMK
- C. Configure IAM KMS and use the default key store Create a customer managed CMK with no key material import the company's key material into the CMK
- D. Configure IAM KMS and use a custom key store. Create an IAM managed CMK with no key material. Import the company's key material into the CMK.

Correct Answer: A

QUESTION 3

DDoS attacks that happen at the application layer commonly target web applications with lower volumes of traffic compared to infrastructure attacks. To mitigate these types of attacks, you should probably want to include a WAF (Web Application Firewall) as part of your infrastructure. To inspect all HTTP requests, WAFs sit in-line with your application traffic. Unfortunately, this creates a scenario where WAFs can become a point of failure or bottleneck. To mitigate this problem, you need the ability to run multiple WAFs on demand during traffic spikes. This type of scaling for WAF is done



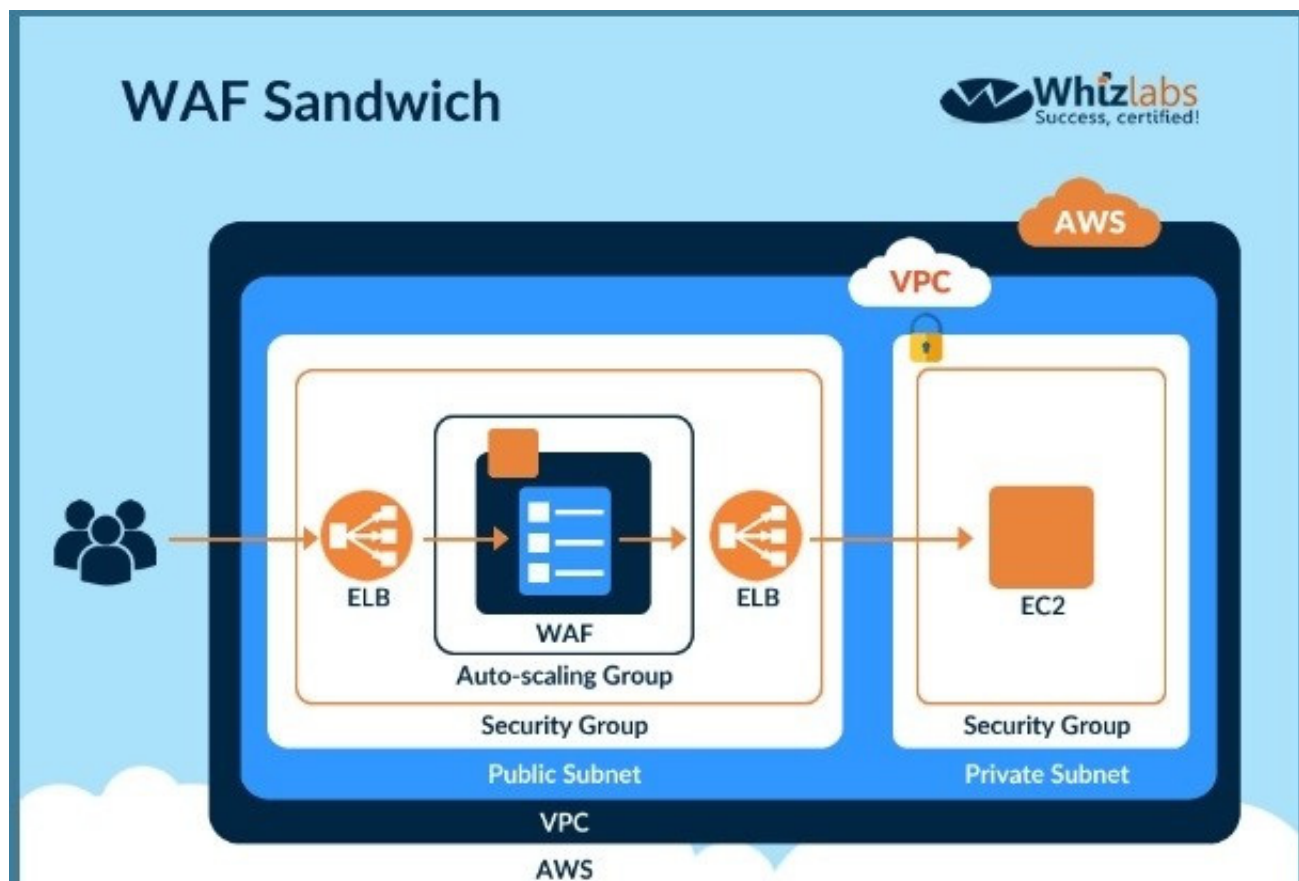
via a "WAF sandwich." Which of the following statements best describes what a "WAF sandwich" is? Choose the correct answer from the options below

Please select:

- A. The EC2 instance running your WAF software is placed between your private subnets and any NATed connections to the internet.
- B. The EC2 instance running your WAF software is placed between your public subnets and your Internet Gateway.
- C. The EC2 instance running your WAF software is placed between your public subnets and your private subnets.
- D. The EC2 instance running your WAF software is included in an Auto Scaling group and placed in between two Elastic load balancers.

Correct Answer: D

Explanation: The below diagram shows how a WAF sandwich is created. Its the concept of placing the Ec2 instance which hosts the WAF software in between 2 elastic load balancers.



C:\Users\wk\Desktop\mudassar\Untitled.jpg

Option A,B and C are incorrect since the EC2 Instance with the WAF software needs to be placed in an Autoscaling Group For more information on a WAF sandwich please refer to the below Link:

<https://www.cloudaxis.com/2016/11/21/waf-sandwich/> The correct answer is: The EC2 instance running your WAF software is included in an Auto Scaling group and placed in between two Elastic load balancers.



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QUESTION 4

A security engineer needs to build a solution to turn IAM CloudTrail back on in multiple IAM Regions in case it is ever turned off. What is the MOST efficient way to implement this solution?

- A. Use IAM Config with a managed rule to trigger the IAM-EnableCloudTrail remediation.
- B. Create an Amazon EventBridge (Amazon CloudWatch Events) event with a cloudtrail.amazonaws.com event source and a StartLogging event name to trigger an IAM Lambda function to call the StartLogging API.
- C. Create an Amazon CloudWatch alarm with a cloudtrail.amazonaws.com event source and a StopLogging event name to trigger an IAM Lambda function to call the StartLogging API.
- D. Monitor IAM Trusted Advisor to ensure CloudTrail logging is enabled.

Correct Answer: B

QUESTION 5

A company has multiple production IAM accounts. Each account has IAM CloudTrail configured to log to a single Amazon S3 bucket in a central account. Two of the production accounts have trails that are not logging anything to the S3 bucket.

Which steps should be taken to troubleshoot the issue? (Choose three.)

- A. Verify that the log file prefix is set to the name of the S3 bucket where the logs should go.
- B. Verify that the S3 bucket policy allows access for CloudTrail from the production IAM account IDs.
- C. Create a new CloudTrail configuration in the account, and configure it to log to the account's S3 bucket.
- D. Confirm in the CloudTrail Console that each trail is active and healthy.
- E. Open the global CloudTrail configuration in the master account, and verify that the storage location is set to the correct S3 bucket.
- F. Confirm in the CloudTrail Console that the S3 bucket name is set correctly.

Correct Answer: BDF

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