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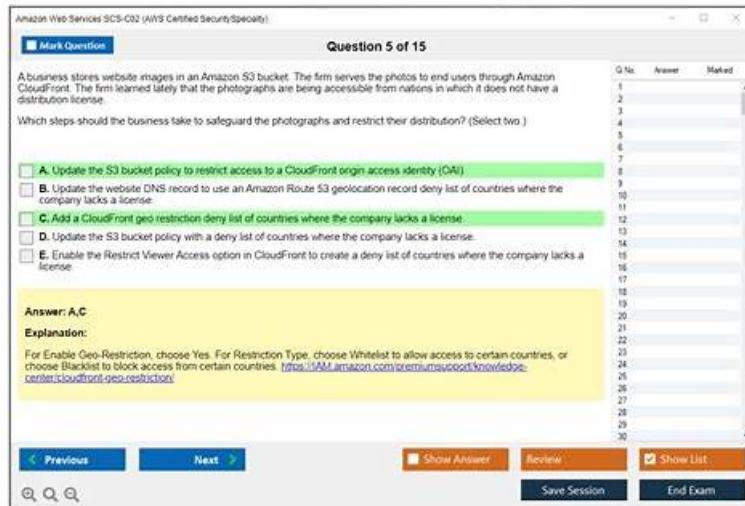
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>> Practice SCS-C02 Engine <<

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Amazon SCS-C02 Exam Syllabus Topics:

Topic	Details
Topic 1	• Security Logging and Monitoring: This topic prepares AWS Security specialists to design and implement robust monitoring and alerting systems for addressing security events. It emphasizes troubleshooting logging solutions and analyzing logs to enhance threat visibility.

Topic 2	• Infrastructure Security: Aspiring AWS Security specialists are trained to implement and troubleshoot security controls for edge services, networks, and compute workloads under this topic. Emphasis is placed on ensuring resilience and mitigating risks across AWS infrastructure. This section aligns closely with the exam's focus on safeguarding critical AWS services and environments.
Topic 3	• Identity and Access Management: The topic equips AWS Security specialists with skills to design, implement, and troubleshoot authentication and authorization mechanisms for AWS resources. By emphasizing secure identity management practices, this area addresses foundational competencies required for effective access control, a vital aspect of the certification exam.
Topic 4	• Management and Security Governance: This topic teaches AWS Security specialists to develop centralized strategies for AWS account management and secure resource deployment. It includes evaluating compliance and identifying security gaps through architectural reviews and cost analysis, essential for implementing governance aligned with certification standards.

Amazon AWS Certified Security - Specialty Sample Questions (Q382-Q387):

NEW QUESTION # 382
A company has recently recovered from a security incident that required the restoration of Amazon EC2 instances from snapshots.
The company uses an AWS Key Management Service (AWS KMS) customer managed key to encrypt all Amazon Elastic Block Store (Amazon EBS) snapshots.
The company performs a gap analysis of its disaster recovery procedures and backup strategies.
A security engineer needs to implement a solution so that the company can recover the EC2 instances if the AWS account is compromised and the EBS snapshots are deleted.
Which solution will meet this requirement?

- A. Use AWS Backup to copy EBS snapshots to Amazon S3. Use S3 Object Lock to prevent deletion of the snapshots.
- B. Use AWS Systems Manager to distribute a configuration that backs up all attached disks to Amazon S3.
- C. Create a new Amazon S3 bucket. Use EBS lifecycle policies to move EBS snapshots to the new S3 bucket. Use lifecycle policies to move snapshots to the S3 Glacier Instant Retrieval storage class. Use S3 Object Lock to prevent deletion of the snapshots.
- D. Create a new AWS account that has limited privileges. Allow the new account to access the KMS key that encrypts the EBS snapshots. Copy the encrypted snapshots to the new account on a recurring basis.

Answer: D

NEW QUESTION # 383
A company wants to protect its website from man in-the-middle attacks by using Amazon CloudFront. Which solution will meet these requirements with the LEAST operational overhead?

- A. Use a Lambda@Edge function to add the Strict-Transport-Security response header.
- B. Use the SecurityHeadersPolicy managed response headers policy.
- C. Use the SimpleCORS managed response headers policy.
- D. Include the X-XSS-Protection header in a custom response headers policy.

Answer: B

Explanation:
https://docs.aws.amazon.com/AmazonCloudFront/latest/DeveloperGuide/using-managed-response-headers-policies.html#managed-response-headers-policies-security The SecurityHeadersPolicy is a managed policy provided by Amazon CloudFront that includes a set of recommended security headers to enhance the security of your website. These headers help protect against various types of attacks, including man-in-the-middle attacks. By applying the SecurityHeadersPolicy to your CloudFront distribution, the necessary security headers will be automatically added to the responses sent by CloudFront. This reduces operational overhead because you don't have to manually configure or manage the headers yourself.

NEW QUESTION # 384

A company needs to improve its ability to identify and prevent IAM policies that grant public access or cross-account access to resources. The company has implemented AWS Organizations and has started using AWS Identity and Access Management Access Analyzer to refine overly broad access to accounts in the organization.

A security engineer must automate a response in the company's organization for any newly created policies that are overly permissive. The automation must remediate external access and must notify the company's security team.

Which combination of steps should the security engineer take to meet these requirements?

(Choose three.)

- A. Create an AWS Step Functions state machine that checks the resource type in the finding and adds an explicit Deny statement in the trust policy for the IAM role. Configure the state machine to publish a notification to an Amazon Simple Notification Service (Amazon SNS) topic.
- B. Create an Amazon Simple Notification Service (Amazon SNS) topic for external or cross-account access notices. Subscribe the security team's email addresses to the topic.
- C. In Amazon CloudWatch, create a metric filter that matches active IAM Access Analyzer findings and invokes AWS Batch for resolution.
- D. Create an AWS Batch job that forwards any resource type findings to an AWS Lambda function. Configure the Lambda function to add an explicit Deny statement in the trust policy for the IAM role. Configure the AWS Batch job to publish a notification to an Amazon Simple Notification Service (Amazon SNS) topic.
- E. Create an Amazon Simple Queue Service (Amazon SQS) queue. Configure the queue to forward a notification to the security team that an external principal has been granted access to the specific IAM role and has been blocked.
- F. In Amazon EventBridge, create an event rule that matches active IAM Access Analyzer findings and invokes AWS Step Functions for resolution.

Answer: A,B,F

Explanation:
https://aws.amazon.com/blogs/compute/orchestrating-a-security-incident-response-with-aws- step-functions/

NEW QUESTION # 385
A company uses SAML federation to grant users access to AWS accounts. A company workload that is in an isolated AWS account runs on immutable infrastructure with no human access to Amazon EC2. The company requires a specialized user known as a break glass user to have access to the workload AWS account and instances in the case of SAML errors. A recent audit discovered that the company did not create the break glass user for the AWS account that contains the workload.

The company must create the break glass user. The company must log any activities of the break glass user and send the logs to a security team.

Which combination of solutions will meet these requirements? (Choose two.)

- A. Create a break glass EC2 key pair for the AWS account. Provide the key pair to the security team. Use AWS CloudTrail to monitor key pair activity. Send notifications to the security team by using Amazon Simple Notification Service (Amazon SNS).
- B. Create a break glass IAM role for the account. Allow security team members to perform the AssumeRoleWithSAML operation. Create an AWS CloudTrail trail that has Amazon CloudWatch Logs turned on. Use Amazon EventBridge to monitor security team activities.
- C. Create a local individual break glass IAM user on the operating system level of each workload instance. Configure unrestricted security groups on the instances to grant access to the break glass IAM users.
- D. Create a local individual break glass IAM user for the security team. Create a trail in AWS CloudTrail that has Amazon CloudWatch Logs turned on. Use Amazon EventBridge to monitor local user activities.
- E. Configure AWS Systems Manager Session Manager for Amazon EC2. Configure an AWS CloudTrail filter based on Session Manager. Send the results to an Amazon Simple Notification Service (Amazon SNS) topic.

Answer: B,E

Explanation:
https://docs.aws.amazon.com/whitepapers/latest/organizing-your-aws-environment/break-glass- access.html

NEW QUESTION # 386
A Security Engineer is building a Java application that is running on Amazon EC2. The application communicates with an Amazon RDS instance and authenticates with a user name and password.

Which combination of steps can the Engineer take to protect the credentials and minimize downtime when the credentials are

rotated? (Choose two.)

- A. Store the credential in an encrypted string parameter in AWS Systems Manager Parameter Store. Grant permission to the instance role associated with the EC2 instance to access the parameter and the AWS KMS key that is used to encrypt it.
- B. Configure the Java application to catch a connection failure and make a call to AWS Secrets Manager to retrieve updated credentials when the password is rotated. Grant permission to the instance role associated with the EC2 instance to access Secrets Manager.
- C. Have a Database Administrator encrypt the credentials and store the ciphertext in Amazon S3. Grant permission to the instance role associated with the EC2 instance to read the object and decrypt the ciphertext.
- D. Configure a scheduled job that updates the credential in AWS Systems Manager Parameter Store and notifies the Engineer that the application needs to be restarted.
- E. Configure automatic rotation of credentials in AWS Secrets Manager.

Answer: B,E

Explanation:
Explanation
AWS Secrets Manager is a service that helps you manage, retrieve, and rotate secrets such as database credentials, API keys, and other sensitive information. By configuring automatic rotation of credentials in AWS Secrets Manager, you can ensure that your secrets are changed regularly and securely, without requiring manual intervention or application downtime. You can also specify the rotation frequency and the rotation function that performs the logic of changing the credentials on the database and updating the secret in Secrets Manager1.
E: Configure the Java application to catch a connection failure and make a call to AWS Secrets Manager to retrieve updated credentials when the password is rotated. Grant permission to the instance role associated with the EC2 instance to access Secrets Manager.
By configuring the Java application to catch a connection failure and make a call to AWS Secrets Manager to retrieve updated credentials, you can avoid hard-coding the credentials in your application code or configuration files. This way, your application can dynamically obtain the latest credentials from Secrets Manager whenever the password is rotated, without needing to restart or redeploy the application. To enable this, you need to grant permission to the instance role associated with the EC2 instance to access Secrets Manager using IAM policies2. You can also use the AWS SDK for Java to integrate your application with Secrets Manager3.

NEW QUESTION # 387

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