Amazon-Web-Services

Exam Questions SCS-C02

AWS Certified Security - Specialty

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NEW QUESTION 1
A security engineer needs to develop a process to investigate and respond to po-tential security events on a company's Amazon EC2 instances. All the EC2 in-stances are backed by Amazon Elastic Block Store (Amazon EBS). The company uses AWS Systems Manager to manage all the EC2 instances and has installed Systems Manager Agent (SSM Agent) on all the EC2 instances.
The process that the security engineer is developing must comply with AWS secu-rity best practices and must meet the following requirements:
• A compromised EC2 instance's volatile memory and non-volatile memory must be preserved for forensic purposes.
• A compromised EC2 instance's metadata must be updated with corresponding inci-dent ticket information.
• A compromised EC2 instance must remain online during the investigation but must be isolated to prevent the spread of malware.
• Any investigative activity during the collection of volatile data must be cap-tured as part of the process. Which combination of steps should the security engineer take to meet these re-quirements with the LEAST
operational overhead? (Select THREE.)

A. Gather any relevant metadata for the compromised EC2 instanc
B. Enable ter-mination protectio
C. Isolate the instance by updating the instance's secu-rity groups to restrict acces
D. Detach the instance from anyAuto Scaling groups that the instance is a member o
E. Deregister the instance from any Elastic Load Balancing (ELB) resources.
F. Gather any relevant metadata for the compromised EC2 instanc
G. Enable ter-mination protectio
H. Move the instance to an isolation subnet that denies all source and destination traffi
I. Associate the instance with the subnet to restrict acces
J. Detach the instance from any Auto Scaling groups that the instance is a member o
K. Deregister the instance from any Elastic Load Balancing (ELB) resources.
L. Use Systems Manager Run Command to invoke scripts that collect volatile data.
M. Establish a Linux SSH or Windows Remote Desktop Protocol (RDP) session to the compromised EC2 instance to invoke scripts that collect volatile data.
N. Create a snapshot of the compromised EC2 instance's EBS volume for follow-up investigation
O. Tag the instance with any relevant metadata and inci-dent ticket information.
P. Create a Systems Manager State Manager association to generate an EBS vol-ume snapshot of the compromised EC2 instanc
Q. Tag the instance with any relevant metadata and incident ticket information.

Answer: ACE

NEW QUESTION 2
A company is using Amazon Macie, AWS Firewall Manager, Amazon Inspector, and AWS Shield Advanced in its AWS account. The company wants to receive alerts if a DDoS attack occurs against the account.
Which solution will meet this requirement?

A. Use Macie to detect an active DDoS even
B. Create Amazon CloudWatch alarms that respond to Macie findings.
C. Use Amazon Inspector to review resources and to invoke Amazon CloudWatch alarms for any resources that are vulnerable to DDoS attacks.
D. Create an Amazon CloudWatch alarm that monitors Firewall Manager metrics for an active DDoS event.
E. Create an Amazon CloudWatch alarm that monitors Shield Advanced metrics for an active DDoS event.

Answer: D

Explanation:
This answer is correct because AWS Shield Advanced is a service that provides comprehensive protection
against DDoS attacks of any size or duration. It also provides metrics and reports on the DDoS attack vectors, duration, and size. You can create an Amazon CloudWatch alarm that monitors Shield Advanced metrics such as DDoSAttackBitsPerSecond, DDoSAttackPacketsPerSecond, and DDoSAttackRequestsPerSecond to receive alerts if a DDoS attack occurs against your account.
For more information, see Monitoring AWS Shield Advanced with Amazon CloudWatch and AWS Shield Advanced metrics and alarms.

NEW QUESTION 3
A company's security team is building a solution for logging and visualization. The solution will assist the company with the large variety and velocity of data that it receives from IAM across multiple accounts. The security team has enabled IAM CloudTrail and VPC Flow Logs in all of its accounts. In addition, the company has an organization in IAM Organizations and has an IAM Security Hub master account.
The security team wants to use Amazon Detective However the security team cannot enable Detective and is unsure why
What must the security team do to enable Detective?

A. Enable Amazon Macie so that Secunty H jb will allow Detective to process findings from Macie.
B. Disable IAM Key Management Service (IAM KMS) encryption on CtoudTrail logs in every member account of the organization
C. Enable Amazon GuardDuty on all member accounts Try to enable Detective in 48 hours
D. Ensure that the principal that launches Detective has the organizations ListAccounts permission

Answer: D

NEW QUESTION 4
A company hosts an end user application on AWS Currently the company deploys the application on Amazon EC2 instances behind an Elastic Load Balancer The company wants to configure end-to-end encryption between the Elastic Load Balancer and the EC2 instances.
Which solution will meet this requirement with the LEAST operational effort?

A. Use Amazon issued AWS Certificate Manager (ACM) certificates on the EC2 instances and the Elastic Load Balancer to configure end-to-end encryption
B. Import a third-party SSL certificate to AWS Certificate Manager (ACM) Install the third-party certificate on the EC2 instances Associate the ACM imported third-party certificate with the Elastic Load Balancer
C. Deploy AWS CloudHSM Import a third-party certificate Configure the EC2 instances and the Elastic Load Balancer to use the CloudHSM imported certificate
D. Import a third-party certificate bundle to AWS Certificate Manager (ACM) Install the third-party certificate on the EC2 instances Associate the ACM imported third-party certificate with the Elastic Load Balancer.

Answer: A

Explanation:
To configure end-to-end encryption between the Elastic Load Balancer and the EC2 instances with the least operational effort, the most appropriate solution would be to use Amazon issued AWS Certificate Manager (ACM) certificates on the EC2 instances and the Elastic Load Balancer to configure end-to-end encryption.
AWS Certificate Manager - Amazon Web Services : Elastic Load Balancing - Amazon Web
Services : Amazon Elastic Compute Cloud - Amazon Web Services : AWS Certificate Manager - Amazo Web Services

NEW QUESTION 5
A company is implementing new compliance requirements to meet customer needs. According to the new requirements the company must not use any Amazon RDS DB instances or DB clusters that lack encryption of the underlying storage. The company needs a solution that will generate an email alert when an unencrypted DB instance or DB cluster is created. The solution also must terminate the unencrypted DB instance or DB cluster.
Which solution will meet these requirements in the MOST operationally efficient manner?

A. Create an AWS Config managed rule to detect unencrypted ROS storag
B. Configure an automatic remediation action to publish messages to an Amazon Simple Notification Service (Amazon SNS) topic that includes an AWS Lambda function and an email delivery target as subscriber
C. Configure the Lambda function to delete the unencrypted resource.
D. Create an AWS Config managed rule to detect unencrypted RDS storag
E. Configure a manual remediation action to invoke an AWS Lambda functio
F. Configure the Lambda function to publish messages to an Amazon Simple Notification Service (Amazon SNS) topic and to delete the unencrypted resource.
G. Create an Amazon EventBridge rule that evaluates RDS event patterns and is initiated by the creation of DB instances or DB clusters Configure the rule to publish messages to an Amazon Simple Notification Service (Amazon SNS) topic that includes an AWS Lambda function and an email delivery target as subscriber
H. Configure the Lambda function to delete the unencrypted resource.
I. Create an Amazon EventBridge rule that evaluates RDS event patterns and is initiated by the creation of DB instances or DB cluster
J. Configure the rule to invoke an AWS Lambda functio
K. Configure the Lambda function to publish messages to an Amazon Simple Notification Service (Amazon SNS) topic and to delete the unencrypted resource.

Answer: A

Explanation:
https://docs.aws.amazon.com/config/latest/developerguide/rds-storage-encrypted.html

NEW QUESTION 6
A company is using an AWS Key Management Service (AWS KMS) AWS owned key in its application to encrypt files in an AWS account The company's security team wants the ability to change to new key material for new files whenever a potential key breach occurs A security engineer must implement a solution that gives the security team the ability to change the key whenever the team wants to do so
Which solution will meet these requirements?

A. Create a new customer managed key Add a key rotation schedule to the key Invoke the key rotation schedule every time the security team requests a key change
B. Create a new AWS managed key Add a key rotation schedule to the key Invoke the key rotation schedule every time the security team requests a key change
C. Create a key alias Create a new customer managed key every time the security team requests a key change Associate the alias with the new key
D. Create a key alias Create a new AWS managed key every time the security team requests a key change Associate the alias with the new key

Answer: A

Explanation:
To meet the requirement of changing the key material for new files whenever a potential key breach occurs, the most appropriate solution would be to create a new customer managed key, add a key rotation schedule to the key, and invoke the key rotation schedule every time the security team requests a key change.
References: : Rotating AWS KMS keys - AWS Key Management Service

NEW QUESTION 7
A company's Chief Security Officer has requested that a Security Analyst review and improve the security posture of each company IAM account The Security Analyst decides to do this by Improving IAM account root user security.
Which actions should the Security Analyst take to meet these requirements? (Select THREE.)

A. Delete the access keys for the account root user in every account.
B. Create an admin IAM user with administrative privileges and delete the account root user in every account.
C. Implement a strong password to help protect account-level access to the IAM Management Console by the account root user.
D. Enable multi-factor authentication (MFA) on every account root user in all accounts.
E. Create a custom IAM policy to limit permissions to required actions for the account root user and attach the policy to the account root user.
F. Attach an IAM role to the account root user to make use of the automated credential rotation in IAM STS.

Answer: ADE

Explanation:
because these are the actions that can improve IAM account root user security. IAM account root user is a user that has complete access to all AWS resources and services in an account. IAM account root user security is a set of best practices that help protect the account root user from unauthorized or accidental use. Deleting the access keys for the account root user in every account can help prevent programmatic access by the account root user, which reduces the risk of compromise or misuse. Enabling MFA on every account root user in all accounts can help add an extra layer of security for console access by requiring a verification code in addition to a password. Creating a custom IAM policy to limit permissions to required actions for the account root user and attaching the policy to the account root user can help enforce the principle of least privilege and restrict the account root user from performing unnecessary or dangerous actions. The other options are either invalid or ineffective for improving IAM account root user security.

NEW QUESTION 8
An Incident Response team is investigating an IAM access key leak that resulted in Amazon EC2 instances being launched. The company did not discover the incident until many months later The Director of Information Security wants to implement new controls that will alert when similar incidents happen in the future

Which controls should the company implement to achieve this? {Select TWO.)

A. Enable VPC Flow Logs in all VPCs Create a scheduled IAM Lambda function that downloads and parses the logs, and sends an Amazon SNS notification for violations.
B. Use IAM CloudTrail to make a trail, and apply it to all Regions Specify an Amazon S3 bucket to receive all the CloudTrail log files
C. Add the following bucket policy to the company's IAM CloudTrail bucket to prevent log tampering{"Version": "2012-10-17-,"Statement": { "Effect": "Deny","Action": "s3:PutObject", "Principal": "-","Resource": "arn:IAM:s3:::cloudtrail/IAMLogs/111122223333/*"}}Create an Amazon S3 data event for an PutObject attempts, which sends notifications to an Amazon SNS topic.
D. Create a Security Auditor role with permissions to access Amazon CloudWatch Logs m all Regions Ship the logs to an Amazon S3 bucket and make a lifecycle policy to ship the logs to Amazon S3 Glacier.
E. Verify that Amazon GuardDuty is enabled in all Regions, and create an Amazon CloudWatch Events rule for Amazon GuardDuty findings Add an Amazon SNS topic as the rule's target

Answer: AE

NEW QUESTION 9
A company is designing a multi-account structure for its development teams. The company is using AWS Organizations and AWS Single Sign-On (AWS SSO). The company must implement a solution so that the development teams can use only specific AWS Regions and so that each AWS account allows access to only specific AWS services.
Which solution will meet these requirements with the LEAST operational overhead?

A. Use AWS SSO to set up service-linked roles with IAM policy statements that include the Condition, Resource, and NotAction elements to allow access to only the Regions and services that are needed.
B. Deactivate AWS Security Token Service (AWS STS) in Regions that the developers are not allowed to use.
C. Create SCPs that include the Condition, Resource, and NotAction elements to allow access to only the Regions and services that are needed.
D. For each AWS account, create tailored identity-based policies for AWS SS
E. Use statements that include the Condition, Resource, and NotAction elements to allow access to only the Regions and services that are needed.

Answer: C

Explanation:
https://docs.aws.amazon.com/organizations/latest/userguide/orgs_manage_policies_scps_syntax.html#scp-eleme

NEW QUESTION 10
A company has a legacy application that runs on a single Amazon EC2 instance. A security audit shows that the application has been using an IAM access key within its code to access an Amazon S3 bucket that is named DOC-EXAMPLE-BUCKET1 in the same AWS account. This access key pair has the s3:GetObject permission to all objects in only this S3 bucket. The company takes the application offline because the application is not compliant with the company's security policies for accessing other AWS resources from Amazon EC2.
A security engineer validates that AWS CloudTrail is turned on in all AWS Regions. CloudTrail is sending logs to an S3 bucket that is named DOC-EXAMPLE-BUCKET2. This S3 bucket is in the same AWS account as DOC-EXAMPLE-BUCKET1. However, CloudTrail has not been configured to send logs to Amazon CloudWatch Logs.
The company wants to know if any objects in DOC-EXAMPLE-BUCKET1 were accessed with the IAM access key in the past 60 days. If any objects were accessed, the company wants to know if any of the objects that are text files (.txt extension) contained personally identifiable information (PII).
Which combination of steps should the security engineer take to gather this information? (Choose two.)

A. Configure Amazon Macie to identify any objects in DOC-EXAMPLE-BUCKET1 that contain PII and that were available to the access key.
B. Use Amazon CloudWatch Logs Insights to identify any objects in DOC-EXAMPLE-BUCKET1 that contain PII and that were available to the access key.
C. Use Amazon OpenSearch Service (Amazon Elasticsearch Service) to query the CloudTrail logs in DOC-EXAMPLE-BUCKET2 for API calls that used the access key to access an object that contained PII.
D. Use Amazon Athena to query the CloudTrail logs in DOC-EXAMPLE-BUCKET2 for any API calls that used the access key to access an object that contained PII.
E. Use AWS Identity and Access Management Access Analyzer to identify any API calls that used the access key to access objects that contained PII in DOC-EXAMPLE-BUCKET1.

Answer: AD

NEW QUESTION 10
Which of the following are valid configurations for using SSL certificates with Amazon CloudFront? (Select THREE)

A. Default AWS Certificate Manager certificate
B. Custom SSL certificate stored in AWS KMS
C. Default CloudFront certificate
D. Custom SSL certificate stored in AWS Certificate Manager
E. Default SSL certificate stored in AWS Secrets Manager
F. Custom SSL certificate stored in AWS IAM

Answer: ABC

Explanation:
The key length for an RSA certificate that you use with CloudFront is 2048 bits, even though ACM supports larger keys. If you use an imported certificate with CloudFront, your key length must be 1024 or 2048 bits and cannot exceed 2048 bits. You must import the certificate in the US East (N. Virginia) Region. You must have permission to use and import the SSL/TLS certificate
https://docs.aws.amazon.com/AmazonCloudFront/latest/DeveloperGuide/cnames-and-https-requirements.html

NEW QUESTION 12
A company uses AWS Organizations to manage a small number of AWS accounts. However, the company plans to add 1 000 more accounts soon. The company allows only a centralized security team to create IAM roles for all AWS accounts and teams. Application teams submit requests for IAM roles to the security team. The security team has a backlog of IAM role requests and cannot review and provision the IAM roles quickly.
The security team must create a process that will allow application teams to provision their own IAM roles. The process must also limit the scope of IAM roles and

prevent privilege escalation.
Which solution will meet these requirements with the LEAST operational overhead?

A. Create an IAM group for each application tea
B. Associate policies with each IAM grou
C. Provision IAM users for each application team membe
D. Add the new IAM users to the appropriate IAM group by using role-based access control (RBAC).
E. Delegate application team leads to provision IAM rotes for each tea
F. Conduct a quarterly review of the IAM rotes the team leads have provisione
G. Ensure that the application team leads have the appropriate training to review IAM roles.
H. Put each AWS account in its own O
I. Add an SCP to each OU to grant access to only the AWS services that the teams plan to us
J. Include conditions tn the AWS account of each team.
K. Create an SCP and a permissions boundary for IAM role
L. Add the SCP to the root OU so that only roles that have the permissions boundary attached can create any new IAM roles.

Answer: D

Explanation:
To create a process that will allow application teams to provision their own IAM roles, while limiting the scope of IAM roles and preventing privilege escalation, the following steps are required:

- Create a service control policy (SCP) that defines the maximum permissions that can be granted to any IAM role in the organization. An SCP is a type of policy that you can use with AWS Organizations to manage permissions for all accounts in your organization. SCPs restrict permissions for entities in member accounts, including each AWS account root user, IAM users, and roles. For more information, see Service control policies overview.
- Create a permissions boundary for IAM roles that matches the SCP. A permissions boundary is an advanced feature for using a managed policy to set the maximum permissions that an identity-based policy can grant to an IAM entity. A permissions boundary allows an entity to perform only the actions that are allowed by both its identity-based policies and its permissions boundaries. For more information, see Permissions boundaries for IAM entities.
- Add the SCP to the root organizational unit (OU) so that it applies to all accounts in the organization.

This will ensure that no IAM role can exceed the permissions defined by the SCP, regardless of how it is created or modified.

- Instruct the application teams to attach the permissions boundary to any IAM role they create. This will prevent them from creating IAM roles that can escalate their own privileges or access resources they are not authorized to access.

This solution will meet the requirements with the least operational overhead, as it leverages AWS Organizations and IAM features to delegate and limit IAM role creation without requiring manual reviews or approvals.
The other options are incorrect because they either do not allow application teams to provision their own IAM roles (A), do not limit the scope of IAM roles or prevent privilege escalation (B), or do not take advantage of managed services whenever possible ©.
Verified References:

- https://docs.aws.amazon.com/IAM/latest/UserGuide/access_policies_boundaries.html

NEW QUESTION 17
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?

A. Create an Amazon CloudWatch Logs log grou
B. Configure the load balancers to send logs to the log grou
C. Use the CloudWatch Logs console to search the log
D. Create CloudWatch Logs filters on the logs for the required met-rics.
E. Create an Amazon S3 bucke
F. Configure the load balancers to send logs to the S3 bucke
G. Use Amazon Athena to search the logs that are in the S3 bucke
H. Create Amazon CloudWatch filters on the S3 log files for the re-quired metrics.
I. Create an Amazon S3 bucke
J. Configure the load balancers to send logs to the S3 bucke
K. Use Amazon Athena to search the logs that are in the S3 bucke
L. Create Athena queries for the required metric
M. Publish the metrics to Amazon CloudWatch.
N. Create an Amazon CloudWatch Logs log grou
O. Configure the load balancers to send logs to the log grou
P. Use the AWS Management Console to search the log
Q. Create Amazon Athena queries for the required metric
R. Publish the metrics to Amazon CloudWatch.

Answer: C

Explanation:

- 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 web1
- 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 applications2
- 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 issues3
- 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.

NEW QUESTION 21
A company that uses AWS Organizations wants to see AWS Security Hub findings for many AWS accounts and AWS Regions. Some of the accounts are in the company's organization, and some accounts are in organizations that the company manages for customers. Although the company can see findings in the Security Hub administrator account for accounts in the company's organization, there are no findings from accounts in other organizations.
Which combination of steps should the company take to see findings from accounts that are outside the organization that includes the Security Hub administrator account? (Select TWO.)

A. Use a designated administration account to automatically set up member accounts.
B. Create the AWS Service Role ForSecurrty Hub service-linked rote for Security Hub.
C. Send an administration request from the member accounts.
D. Enable Security Hub for all member accounts.
E. Send invitations to accounts that are outside the company's organization from the Security Hub administrator account.

Answer: CE

Explanation:
To see Security Hub findings for accounts that are outside the organization that includes the Security Hub administrator account, the following steps are required:
- Send invitations to accounts that are outside the company's organization from the Security Hub administrator account. This will allow the administrator account to view and manage findings from those accounts. The administrator account can send invitations by using the Security Hub console, API, or CLI. For more information, see Sending invitations to member accounts.
- Send an administration request from the member accounts. This will allow the member accounts to accept the invitation from the administrator account and establish a relationship with it. The member accounts can send administration requests by using the Security Hub console, API, or CLI. For more information, see Sending administration requests.

This solution will enable the company to see Security Hub findings for many AWS accounts and AWS Regions, including accounts that are outside its own organization.
The other options are incorrect because they either do not establish a relationship between the administrator and member accounts (A, B), do not enable Security Hub for all member accounts (D), or do not use a valid service for Security Hub (F).
Verified References:
- https://docs.aws.amazon.com/securityhub/latest/userguide/securityhub-member-accounts.html

NEW QUESTION 23
A company created an IAM account for its developers to use for testing and learning purposes Because MM account will be shared among multiple teams of developers, the company wants to restrict the ability to stop and terminate Amazon EC2 instances so that a team can perform these actions only on the instances it owns.
Developers were Instructed to tag al their instances with a Team tag key and use the team name in the tag value One of the first teams to use this account is Business Intelligence A security engineer needs to develop a highly scalable solution for providing developers with access to the appropriate resources within the account The security engineer has already created individual IAM roles for each team.
Which additional configuration steps should the security engineer take to complete the task?

A. For each team, create an AM policy similar to the one that fellows Populate the ec2: ResourceTag/Team condition key with a proper team name Attach resulting policies to the corresponding IAM roles.

```
{
    "Version": "2012-10-17",
    "Statement": [
        {
            "Effect": "Allow",
            "NotAction": [
                "ec2:StopInstances",
                "ec2:TerminateInstances"
            ]
            "Resource": "*"
        },
        {
            "Effect": "Allow",
            "Action": [
                "ec2:StopInstances",
                "ec2:TerminateInstances"
            ],
            "Resource": "*",
            "Condition": {
                "StringEquals": {
                    "ec2:ResourceTag/Team": "BusinessIntelligence"
                }
            }
        }
    ]
}
```

B. For each team create an IAM policy similar to the one that follows Populate the IAM TagKeys/Team condition key with a proper team nam
C. Attach the resuming policies to the corresponding IAM roles.

```
{
    "Version": "2012-10-17",
    "Statement": [
        {
            "Effect": "Allow",
            "NotAction": [
                "ec2:StopInstances",
                "ec2:TerminateInstances"
            ],
            "Resource": "*"
        },
        {
            "Effect": "Allow",
            "Action": [
                "ec2:StopInstances",
                "ec2:TerminateInstances"
            ],
            "Resource": "*",
            "Condition": {
                "ForAnyValue:StringEquals": {
                    "aws:TagKeys/Team": "BusinessIntelligence"
                }
            }
        }
    ]
}
```

D. Tag each IAM role with a Team lag ke
E. and use the team name in the tag valu
F. Create an IAM policy similar to the one that follows, and attach 4 to all the IAM roles used by developers.

```
{
    "Version": "2012-10-17",
    "Statement": [
        {
            "Effect": "Allow",
            "NotAction": [
                "ec2:StopInstances",
                "ec2:TerminateInstances"
            ],
            "Resource": "*"
        },
        {
            "Effect": "Allow",
            "Action": [
                "ec2:StopInstances",
                "ec2:TerminateInstances"
            ],
            "Resource": "*",
            "Condition": {
                "StringEquals": {
                    "ec2:ResourceTag/Team": "${aws:PrincipalTag/Team}"
                }
            }
        }
    ]
}
```

G. Tag each IAM role with the Team key, and use the team name in the tag valu
H. Create an IAM policy similar to the one that follows, and it to all the IAM roles used by developers.

```
{
    "Version": "2012-10-17",
    "Statement": [
        {
            "Effect": "Allow",
            "NotAction": [
                "ec2:StopInstances",
                "ec2:TerminateInstances"
            ],
            "Resource": "*"
        },
        {
            "Effect": "Allow",
            "Action": [
                "ec2:StopInstances",
                "ec2:TerminateInstances"
            ],
            "Resource": "*",
            "Condition": {
                "ForAnyValue:StringEquals": {
                    "aws:TagKeys/Team": "${aws:PrincipalTag/Team}"
                }
            }
        }
    ]
}
```

Answer: A

NEW QUESTION 26
A security engineer is configuring a mechanism to send an alert when three or more failed sign-in attempts to the AWS Management Console occur during a 5-minute period. The security engineer creates a trail in AWS CloudTrail to assist in this work.
Which solution will meet these requirements?

A. In CloudTrail, turn on Insights events on the trai
B. Configure an alarm on the insight with eventName matching ConsoleLogin and errorMessage matching “Failed authentication”. Configure a threshold of 3 and a period of 5 minutes.
C. Configure CloudTrail to send events to Amazon CloudWatch Log
D. Create a metric filter for the relevant log grou
E. Create a filter pattern with eventName matching ConsoleLogin and errorMessage matching “Failed authentication”. Create a CloudWatch alarm with a threshold of 3 and a period of 5 minutes.
F. Create an Amazon Athena table from the CloudTrail event
G. Run a query for eventName matching ConsoleLogin and for errorMessage matching “Failed authentication”. Create a notification action from the query to send an Amazon Simple Notification Service (Amazon SNS) notification when the count equals 3 within a period of 5 minutes.
H. In AWS Identity and Access Management Access Analyzer, create a new analyze
I. Configure the analyzer to send an Amazon Simple Notification Service (Amazon SNS) notification when a failed sign-in event occurs 3 times for any IAM user within a period of 5 minutes.

Answer: B

Explanation:
The correct answer is B. Configure CloudTrail to send events to Amazon CloudWatch Logs. Create a metric filter for the relevant log group. Create a filter pattern with eventName matching ConsoleLogin and errorMessage matching “Failed authentication”. Create a CloudWatch alarm with a threshold of 3 and a period of 5 minutes.
This answer is correct because it meets the requirements of sending an alert when three or more failed sign-in attempts to the AWS Management Console occur during a 5-minute period. By configuring CloudTrail to send events to CloudWatch Logs, the security engineer can create a metric filter that matches the desired pattern of failed sign-in events. Then, by creating a CloudWatch alarm based on the metric filter, the security engineer can set a threshold of 3 and a period of 5

minutes, and choose an action such as sending an email or an Amazon Simple Notification Service (Amazon SNS) message when the alarm is triggered12.
The other options are incorrect because:

- A. Turning on Insights events on the trail and configuring an alarm on the insight is not a solution, because Insights events are used to analyze unusual activity in management events, such as spikes in API call volume or error rates. Insights events do not capture failed sign-in attempts to the AWS Management Console3.
- C. Creating an Amazon Athena table from the CloudTrail events and running a query for failed sign-in events is not a solution, because it does not provide a mechanism to send an alert based on the query results. Amazon Athena is an interactive query service that allows analyzing data in Amazon S3 using standard SQL, but it does not support creating notifications or alarms from queries4.
- D. Creating an analyzer in AWS Identity and Access Management Access Analyzer and configuring it to send an Amazon SNS notification when a failed sign-in event occurs 3 times for any IAM user within a period of 5 minutes is not a solution, because IAM Access Analyzer is not a service that monitors sign-in events, but a service that helps identify resources that are shared with external entities. IAM Access Analyzer does not generate findings for failed sign-in attempts to the AWS Management Console5.

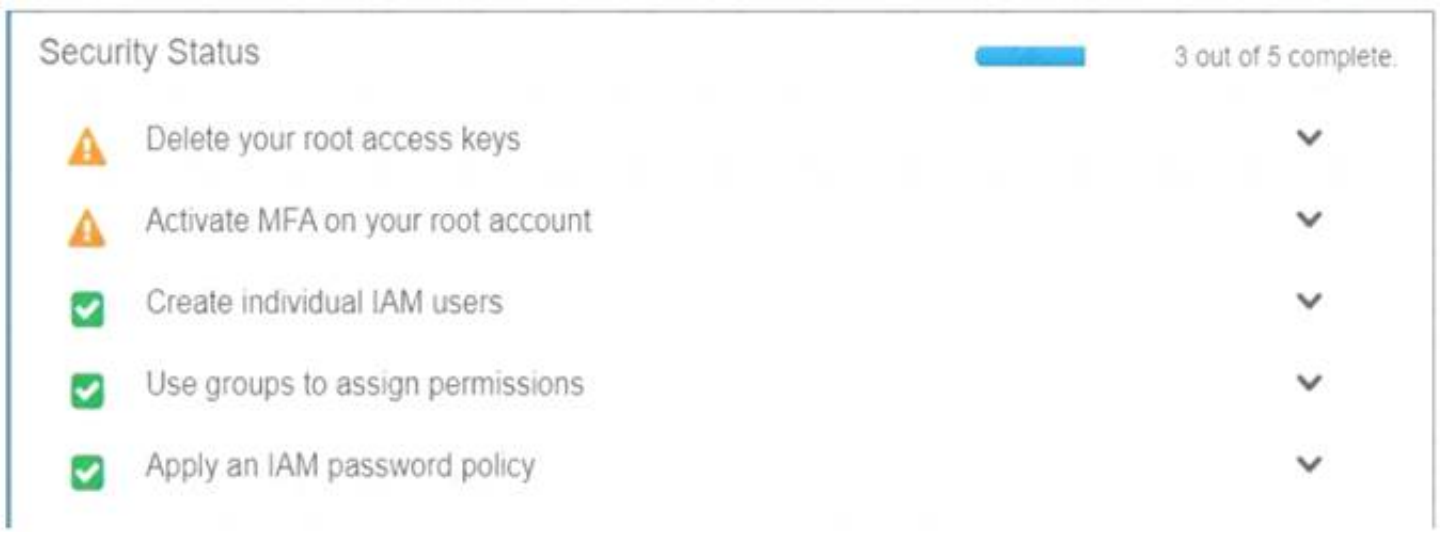
References:
1: Sending CloudTrail Events to CloudWatch Logs - AWS CloudTrail 2: Creating Alarms Based on Metric Filters - Amazon CloudWatch 3: Analyzing unusual activity in management events - AWS CloudTrail 4: What is Amazon Athena? - Amazon Athena 5: Using AWS Identity and Access Management Access Analyzer - AWS Identity and Access Management

NEW QUESTION 27
Your CTO is very worried about the security of your IAM account. How best can you prevent hackers from completely hijacking your account?
Please select:

A. Use short but complex password on the root account and any administrators.
B. Use IAM IAM Geo-Lock and disallow anyone from logging in except for in your city.
C. Use MFA on all users and accounts, especially on the root account.
D. Don't write down or remember the root account password after creating the IAM account.

Answer: C

Explanation:
Multi-factor authentication can add one more layer of security to your IAM account Even when you go to your Security Credentials dashboard one of the items is to enable MFA on your root account
C:\Users\wk\Desktop\mudassar\Untitled.jpg



Option A is invalid because you need to have a good password policy Option B is invalid because there is no IAM Geo-Lock Option D is invalid because this is not a recommended practices For more information on MFA, please visit the below URL
http://docs.IAM.amazon.com/IAM/latest/UserGuide/id
credentials mfa.htmll
The correct answer is: Use MFA on all users and accounts, especially on the root account. Submit your Feedback/Queries to our Experts

NEW QUESTION 31
An international company wants to combine AWS Security Hub findings across all the company's AWS Regions and from multiple accounts. In addition, the company
wants to create a centralized custom dashboard to correlate these findings with operational data for deeper
analysis and insights. The company needs an analytics tool to search and visualize Security Hub findings. Which combination of steps will meet these requirements? (Select THREE.)

A. Designate an AWS account as a delegated administrator for Security Hu
B. Publish events to Amazon CloudWatch from the delegated administrator account, all member accounts, and required Regions that are enabled for Security Hub findings.
C. Designate an AWS account in an organization in AWS Organizations as a delegated administrator for Security Hu
D. Publish events to Amazon EventBridge from the delegated administrator account, all member accounts, and required Regions that are enabled for Security Hub findings.
E. In each Region, create an Amazon EventBridge rule to deliver findings to an Amazon Kinesis data strea
F. Configure the Kinesis data streams to output the logs to a single Amazon S3 bucket.
G. In each Region, create an Amazon EventBridge rule to deliver findings to an Amazon Kinesis Data Firehose delivery strea
H. Configure the Kinesis Data Firehose delivery streams to deliver the logs to a single Amazon S3 bucket.
I. Use AWS Glue DataBrew to crawl the Amazon S3 bucket and build the schem
J. Use AWS Glue Data Catalog to query the data and create views to flatten nested attribute
K. Build Amazon QuickSight dashboards by using Amazon Athena.
L. Partition the Amazon S3 dat
M. Use AWS Glue to crawl the S3 bucket and build the schem
N. Use Amazon Athena to query the data and create views to flatten nested attribute
O. Build Amazon QuickSight dashboards that use the Athena views.

Answer: BDF

Explanation:
The correct answer is B, D, and F. Designate an AWS account in an organization in AWS Organizations as a delegated administrator for Security Hub. Publish events to Amazon EventBridge from the delegated administrator account, all member accounts, and required Regions that are enabled for Security Hub findings. In each Region, create an Amazon EventBridge rule to deliver findings to an Amazon Kinesis Data Firehose delivery stream. Configure the Kinesis Data Firehose delivery streams to deliver the logs to a single Amazon S3 bucket. Partition the Amazon S3 data. Use AWS Glue to crawl the S3 bucket and build the schema. Use Amazon Athena to query the data and create views to flatten nested attributes. Build Amazon QuickSight dashboards that use the Athena views.
According to the AWS documentation, AWS Security Hub is a service that provides you with a comprehensive view of your security state across your AWS accounts, and helps you check your environment against security standards and best practices. You can use Security Hub to aggregate security findings from various sources, such as AWS services, partner products, or your own applications.
To use Security Hub with multiple AWS accounts and Regions, 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 Security Hub as a service principal for AWS Organizations, which lets you designate a delegated administrator account for Security Hub. The delegated administrator account can enable Security Hub automatically in all existing and future accounts in your organization, and can view and manage findings from all accounts.
According to the AWS documentation, Amazon EventBridge is a serverless event bus that makes it easy to connect applications using data from your own applications, integrated software as a service (SaaS) applications, and AWS services. You can use EventBridge to create rules that match events from various sources and route them to targets for processing.
To use EventBridge with Security Hub findings, you need to enable Security Hub as an event source in EventBridge. This will allow you to publish events from Security Hub to EventBridge in the same Region. You can then create EventBridge rules that match Security Hub findings based on criteria such as severity, type, or resource. You can also specify targets for your rules, such as Lambda functions, SNS topics, or Kinesis Data Firehose delivery streams.
According to the AWS documentation, Amazon Kinesis Data Firehose is a fully managed service that delivers real-time streaming data to destinations such as Amazon S3, Amazon Redshift, Amazon Elasticsearch Service (Amazon ES), and Splunk. You can use Kinesis Data Firehose to transform and enrich your data before delivering it to your destination.
To use Kinesis Data Firehose with Security Hub findings, you need to create a Kinesis Data Firehose delivery stream in each Region where you have enabled Security Hub. You can then configure the delivery stream to receive events from EventBridge as a source, and deliver the logs to a single S3 bucket as a destination. You can also enable data transformation or compression on the delivery stream if needed.
According to the AWS documentation, Amazon S3 is an object storage service that offers scalability, data availability, security, and performance. You can use S3 to store and retrieve any amount of data from anywhere on the web. You can also use S3 features such as lifecycle management, encryption, versioning, and replication to optimize your storage.
To use S3 with Security Hub findings, you need to create an S3 bucket that will store the logs from Kinesis Data Firehose delivery streams. You can then partition the data in the bucket by using prefixes such as account ID or Region. This will improve the performance and cost-effectiveness of querying the data.
According to the AWS documentation, AWS Glue is a fully managed extract, transform, and load (ETL) service that makes it easy to prepare and load your data for analytics. You can use Glue to crawl your data sources, identify data formats, and suggest schemas and transformations. You can also use Glue Data Catalog as a central metadata repository for your data assets.
To use Glue with Security Hub findings, you need to create a Glue crawler that will crawl the S3 bucket and build the schema for the data. The crawler will create tables in the Glue Data Catalog that you can query using standard SQL.
According to the AWS documentation, Amazon Athena is an interactive query service that makes it easy to analyze data in Amazon S3 using standard SQL. Athena is serverless, so there is no infrastructure to manage, and you pay only for the queries that you run. You can use Athena with Glue Data Catalog as a metadata store for your tables.
To use Athena with Security Hub findings, you need to create views in Athena that will flatten nested attributes in the data. For example, you can create views that extract fields such as account ID, Region, resource type, resource ID, finding type, finding title, and finding description from the JSON data. You can then query the views using SQL and join them with other tables if needed.
According to the AWS documentation, Amazon QuickSight is a fast, cloud-powered business intelligence
service that makes it easy to deliver insights to everyone in your organization. You can use QuickSight to create and publish interactive dashboards that include machine learning insights. You can also use QuickSight to connect to various data sources, such as Athena, S3, or RDS.
To use QuickSight with Security Hub findings, you need to create QuickSight dashboards that use the Athena views as data sources. You can then visualize and analyze the findings using charts, graphs, maps, or tables. You can also apply filters, calculations, or aggregations to the data. You can then share the dashboards with your users or embed them in your applications.

NEW QUESTION 33
Your company is planning on using bastion hosts for administering the servers in IAM. Which of the following is the best description of a bastion host from a security perspective?
Please select:

A. A Bastion host should be on a private subnet and never a public subnet due to security concerns
B. A Bastion host sits on the outside of an internal network and is used as a gateway into the private network and is considered the critical strong point of the network
C. Bastion hosts allow users to log in using RDP or SSH and use that session to S5H into internal network to access private subnet resources.
D. A Bastion host should maintain extremely tight security and monitoring as it is available to the public

Answer: C

Explanation:
A bastion host is a special purpose computer on a network specifically designed and configured to withstand attacks. The computer generally hosts a single application, for example a proxy server, and all other services are removed or limited to reduce the threat to the computer.
In IAM, A bastion host is kept on a public subnet. Users log on to the bastion host via SSH or RDP and then use that session to manage other hosts in the private subnets.
Options A and B are invalid because the bastion host needs to sit on the public network. Option D is invalid because bastion hosts are not used for monitoring For more information on bastion hosts, just browse to the below URL:
https://docsIAM.amazon.com/quickstart/latest/linux-bastion/architecture.htl
The correct answer is: Bastion hosts allow users to log in using RDP or SSH and use that session to SSH into internal network to access private subnet resources.
Submit your Feedback/Queries to our Experts

NEW QUESTION 34
A Network Load Balancer (NLB) target instance is not entering the InService state. A security engineer determines that health checks are failing.
Which factors could cause the health check failures? (Select THREE.)

A. The target instance's security group does not allow traffic from the NLB.
B. The target instance's security group is not attached to the NLB.
C. The NLB's security group is not attached to the target instance.
D. The target instance's subnet network ACL does not allow traffic from the NLB.
E. The target instance's security group is not using IP addresses to allow traffic from the NLB.

F. The target network ACL is not attached to the NLB.

Answer: ACD

NEW QUESTION 36
Within a VPC, a corporation runs an Amazon RDS Multi-AZ DB instance. The database instance is connected to the internet through a NAT gateway via two subnets.
Additionally, the organization has application servers that are hosted on Amazon EC2 instances and use the RDS database. These EC2 instances have been deployed onto two more private subnets inside the same VPC. These EC2 instances connect to the internet through a default route via the same NAT gateway.
Each VPC subnet has its own route table.
The organization implemented a new security requirement after a recent security examination. Never allow the database instance to connect to the internet. A security engineer must perform this update promptly without interfering with the network traffic of the application servers.
How will the security engineer be able to comply with these requirements?

A. Remove the existing NAT gatewa
B. Create a new NAT gateway that only the application server subnets can use.
C. Configure the DB instance€™s inbound network ACL to deny traffic from the security group ID of the NAT gateway.
D. Modify the route tables of the DB instance subnets to remove the default route to the NAT gateway.
E. Configure the route table of the NAT gateway to deny connections to the DB instance subnets.

Answer: C

Explanation:
Each subnet has a route table, so modify the routing associated with DB instance subnets to prevent internet access.

NEW QUESTION 38
A security engineer is defining the controls required to protect the IAM account root user credentials in an IAM Organizations hierarchy. The controls should also limit the impact in case these credentials have been compromised.
Which combination of controls should the security engineer propose? (Select THREE.)
A)
Apply the following SCP:

```
{
    "Version": "2012-10-17",
    "Statement": [
        {
            "Sid": "GRRESTRICTROOTUSER",
            "Effect": "Deny",
            "Action": "*",
            "Resource": [
                "*"
            ],
            "Condition": {
                "StringLike": {
                    "aws:PrincipalArn": [
                        "arn:aws:iam::*:root"
                    ]
                }
            }
        }
    ]
}
```

B)
Apply the following SCP:

```
{
    "Version": "2012-10-17",
    "Statement": [
        {
            "Sid": "GRRESTRICTROOTUSER",
            "Effect": "Deny",
            "Principal" : "arn:aws:iam::*:root"
            "Action": "*",
            "Resource": [
                "*"
            ]
        }
    ]
}
```

C) Enable multi-factor authentication (MFA) for the root user.
D) Set a strong randomized password and store it in a secure location.
E) Create an access key ID and secret access key, and store them in a secure location.
F) Apply the following permissions boundary to the toot user:

```
{
    "Version": "2012-10-17",
    "Statement": [
        {
            "Sid": "GRRESTRICTROOTUSER",
            "Effect": "Deny",
            "Action": "*",
            "Resource": [
                "*"
            ],
            "Condition": {
                "StringLike": {
                    "aws:PrincipalArn": [
                        "arn:aws:iam::*:root"
                    ]
                }
            }
        }
    ]
}
```

A. Option A
B. Option B
C. Option C
D. Option D
E. Option E
F. Option F

Answer: ACE

NEW QUESTION 43
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. 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.
B. 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.
C. Configure automatic rotation of credentials in AWS Secrets Manager.
D. Store the credential in an encrypted string parameter in AWS Systems Manager Parameter Stor
E. 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.
F. 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 rotate
G. Grant permission to the instance role associated with the EC2 instance to access Secrets Manager.

Answer: CE

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 48
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?

A. Set up an Amazon EventBridge rule that reacts to new Security Hub find-ing
B. Configure an AWS Lambda function as the target for the rule to reme-diate the findings.
C. Set up a custom action in Security Hu
D. Configure the custom action to call AWS Systems Manager Automation runbooks to remediate the findings.
E. Set up a custom action in Security Hu
F. Configure an AWS Lambda function as the target for the custom action to remediate the findings.
G. Set up AWS Config rules to use AWS Systems Manager Automation runbooks to remediate the findings.

Answer: A

NEW QUESTION 49
What are the MOST secure ways to protect the AWS account root user of a recently opened AWS account? (Select TWO.)

A. Use the AWS account root user access keys instead of the AWS Management Console.
B. Enable multi-factor authentication for the AWS IAM users with the Adminis-tratorAccess managed policy attached to them.
C. Enable multi-factor authentication for the AWS account root user.
D. Use AWS KMS to encrypt all AWS account root user and AWS IAM access keys and set automatic rotation to 30 days.
E. Do not create access keys for the AWS account root user; instead, create AWS IAM users.

Answer: CE

NEW QUESTION 54
A company is building an application on IAM that will store sensitive Information. The company has a support team with access to the IT infrastructure, including databases. The company's security engineer must introduce measures to protect the sensitive data against any data breach while minimizing management overhead. The credentials must be regularly rotated.
What should the security engineer recommend?

A. Enable Amazon RDS encryption to encrypt the database and snapshot
B. Enable Amazon Elastic Block Store (Amazon EBS) encryption on Amazon EC2 instance
C. Include the database credential in the EC2 user data fiel
D. Use an IAM Lambda function to rotate database credential
E. Set up TLS for the connection to the database.
F. Install a database on an Amazon EC2 Instanc
G. Enable third-party disk encryption to encrypt the Amazon Elastic Block Store (Amazon EBS) volum
H. Store the database credentials in IAM CloudHSM with automatic rotatio
I. Set up TLS for the connection to the database.
J. Enable Amazon RDS encryption to encrypt the database and snapshot
K. Enable Amazon Elastic Block Store (Amazon EBS) encryption on Amazon EC2 instance
L. Store the database credentials in IAM Secrets Manager with automatic rotatio
M. Set up TLS for the connection to the RDS hosted database.
N. Set up an IAM CloudHSM cluster with IAM Key Management Service (IAM KMS) to store KMS keys.Set up Amazon RDS encryption using IAM KMS to encrypt the databas
O. Store database credentials in the IAM Systems Manager Parameter Store with automatic rotatio
P. Set up TLS for the connection to the RDS hosted database.

Answer: C

Explanation:
To protect the sensitive data against any data breach and minimize management overhead, the security engineer should recommend the following solution:

- Enable Amazon RDS encryption to encrypt the database and snapshots. This allows the security engineer to use AWS Key Management Service (AWS KMS) to encrypt data at rest for the database and any backups or replicas.
- Enable Amazon Elastic Block Store (Amazon EBS) encryption on Amazon EC2 instances. This allows the security engineer to use AWS KMS to encrypt data at rest for the EC2 instances and any snapshots or volumes.
- Store the database credentials in AWS Secrets Manager with automatic rotation. This allows the security engineer to encrypt and manage secrets centrally, and to configure automatic rotation schedules for them.
- Set up TLS for the connection to the RDS hosted database. This allows the security engineer to encrypt data in transit between the EC2 instances and the database.

NEW QUESTION 59
A company is using AWS Organizations to manage multiple accounts. The company needs to allow an IAM user to use a role to access resources that are in another organization's AWS account.
Which combination of steps must the company perform to meet this requirement? (Select TWO.)

A. Create an identity policy that allows the sts: AssumeRole action in the AWS account that contains the resource
B. Attach the identity policy to the IAM user.
C. Ensure that the sts: AssumeRole action is allowed by the SCPs of the organization that owns the resources that the IAM user needs to access.
D. Create a role in the AWS account that contains the resource
E. Create an entry in the role's trust policy that allows the IAM user to assume the rol
F. Attach the trust policy to the role.
G. Establish a trust relationship between the IAM user and the AWS account that contains the resources.
H. Create a role in the IAM user's AWS accoun
I. Create an identity policy that allows the sts: AssumeRole actio
J. Attach the identity policy to the role.

Answer: BC

Explanation:
To allow cross-account access to resources using IAM roles, the following steps are required:

- Create a role in the AWS account that contains the resources (the trusting account) and specify the AWS account that contains the IAM user (the trusted account) as a trusted entity in the role’s trust policy. This allows users from the trusted account to assume the role and access resources in the trusting account.
- Ensure that the IAM user has permission to assume the role in their own AWS account. This can be done by creating an identity policy that allows the sts:AssumeRole action and attaching it to the IAM user or their group.
- Ensure that there are no service control policies (SCPs) in the organization that owns the resources that deny or restrict access to the sts:AssumeRole action or the role itself. SCPs are applied to all accounts in an organization and can override any permissions granted by IAM policies.

Verified References:

- https://repost.aws/knowledge-center/cross-account-access-iam
- https://docs.aws.amazon.com/organizations/latest/userguide/orgs_manage_accounts_access.html
-

https://docs.aws.amazon.com/IAM/latest/UserGuide/tutorial_cross-account-with-roles.html

NEW QUESTION 61
A company accidentally deleted the private key for an Amazon Elastic Block Store (Amazon EBS)-backed Amazon EC2 instance. A security engineer needs to regain access to the instance.
Which combination of steps will meet this requirement? (Choose two.)

A. Stop the instanc
B. Detach the root volum
C. Generate a new key pair.
D. Keep the instance runnin
E. Detach the root volum
F. Generate a new key pair.
G. When the volume is detached from the original instance, attach the volume to another instance as a data volum
H. Modify the authorized_keys file with a new public ke
I. Move the volume back to the original instanc
J. Start the instance.
K. When the volume is detached from the original instance, attach the volume to another instance as a data volum
L. Modify the authorized_keys file with a new private ke
M. Move the volume back to the original instanc
N. Start the instance.
O. When the volume is detached from the original instance, attach the volume to another instance as a data volum
P. Modify the authorized_keys file with a new public ke
Q. Move the volume back to the original instance that is running.

Answer: AC

Explanation:
If you lose the private key for an EBS-backed instance, you can regain access to your instance. You must stop the instance, detach its root volume and attach it to another instance as a data volume, modify the authorized_keys file with a new public key, move the volume back to the original instance, and restart the instance.
https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/TroubleshootingInstancesConnecting.html#replacing

NEW QUESTION 64
A security engineer needs to see up an Amazon CloudFront distribution for an Amazon S3 bucket that hosts a static website. The security engineer must allow only specified IP addresses to access the website. The security engineer also must prevent users from accessing the website directly by using S3 URLs.
Which solution will meet these requirements?

A. Generate an S3 bucket polic
B. Specify cloudfront amazonaws com as the principa
C. Use the aws Sourcelp condition key to allow access only if the request conies from the specified IP addresses.
D. Create a CloudFront origin access identity (OAl). Create the S3 bucket policy so that only the OAl has acces
E. Create an AWS WAF web ACL and add an IP set rul
F. Associate the web ACL with the CloudFront distribution.
G. Implement security groups to allow only the specified IP addresses access and to restrict S3 bucket access by using the CloudFront distribution.
H. Create an S3 bucket access point to allow access from only the CloudFront distributio
I. Create an AWS WAF web ACL and add an IP set rul
J. Associate the web ACL with the CloudFront distribution.

Answer: B

NEW QUESTION 65
A company needs to follow security best practices to deploy resources from an AWS CloudFormation template. The CloudFormation template must be able to configure sensitive database credentials.
The company already uses AWS Key Management Service (AWS KMS) and AWS Secrets Manager. Which solution will meet the requirements?

A. Use a dynamic reference in the CloudFormation template to reference the database credentials in Secrets Manager.
B. Use a parameter in the CloudFormation template to reference the database credential
C. Encrypt the CloudFormation template by using AWS KMS.
D. Use a SecureString parameter in the CloudFormation template to reference the database credentials in Secrets Manager.
E. Use a SecureString parameter in the CloudFormation template to reference an encrypted value in AWS KMS

Answer: A

Explanation:
Option A: This option meets the requirements of following security best practices and configuring sensitive database credentials in the CloudFormation template. A dynamic reference is a way to specify external values that are stored and managed in other services, such as Secrets Manager, in the stack templates1. When using a dynamic reference, CloudFormation retrieves the value of the specified reference when necessary during stack and change set operations1. Dynamic references can be used for certain resources that support them, such as AWS::RDS::DBInstance1. By using a dynamic reference to reference the database credentials in Secrets Manager, the company can leverage the existing integration between these services and avoid hardcoding the secret information in the template. Secrets Manager is a service that helps you protect secrets needed to access your applications, services, and IT resources2. Secrets Manager enables you to rotate, manage, and retrieve database credentials, API keys, and other secrets throughout their lifecycle2.

NEW QUESTION 66
A company is running an Amazon RDS for MySQL DB instance in a VPC. The VPC must not send or receive network traffic through the internet.
A security engineer wants to use AWS Secrets Manager to rotate the DB instance credentials automatically. Because of a security policy, the security engineer cannot use the standard AWS Lambda function that Secrets Manager provides to rotate the credentials.
The security engineer deploys a custom Lambda function in the VPC. The custom Lambda function will be responsible for rotating the secret in Secrets Manager.
The security engineer edits the DB instance's security group to allow connections from this function. When the function is invoked, the function cannot

communicate with Secrets Manager to rotate the secret properly.
What should the security engineer do so that the function can rotate the secret?

A. Add an egress-only internet gateway to the VP
B. Allow only the Lambda function's subnet to route traffic through the egress-only internet gateway.
C. Add a NAT gateway to the VP
D. Configure only the Lambda function's subnet with a default route through the NAT gateway.
E. Configure a VPC peering connection to the default VPC for Secrets Manage
F. Configure the Lambda function's subnet to use the peering connection for routes.
G. Configure a Secrets Manager interface VPC endpoin
H. Include the Lambda function's private subnet during the configuration process.

Answer: D

Explanation:
You can establish a private connection between your VPC and Secrets Manager by creating an interface VPC endpoint. Interface endpoints are powered by AWS PrivateLink, a technology that enables you to privately access Secrets Manager APIs without an internet gateway, NAT device, VPN connection, or AWS Direct Connect connection. Reference:
https://docs.aws.amazon.com/secretsmanager/latest/userguide/vpc-endpoint-overview.html
The correct answer is D. Configure a Secrets Manager interface VPC endpoint. Include the Lambda function’s private subnet during the configuration process.
A Secrets Manager interface VPC endpoint is a private connection between the VPC and Secrets Manager that does not require an internet gateway, NAT device, VPN connection, or AWS Direct Connect connection1. By configuring a Secrets Manager interface VPC endpoint, the security engineer can enable the custom Lambda function to communicate with Secrets Manager without sending or receiving network traffic through the internet. The security engineer must include the Lambda function’s private subnet during the configuration process to allow the function to use the endpoint2.
The other options are incorrect for the following reasons:

- A. An egress-only internet gateway is a VPC component that allows outbound communication over IPv6 from instances in the VPC to the internet, and prevents the internet from initiating an IPv6 connection with the instances3. However, this option does not meet the requirement that the VPC must not send or receive network traffic through the internet. Moreover, an egress-only internet gateway is for use with IPv6 traffic only, and Secrets Manager does not support IPv6 addresses2.
- B. A NAT gateway is a VPC component that enables instances in a private subnet to connect to the internet or other AWS services, but prevents the internet from initiating connections with those instances4. However, this option does not meet the requirement that the VPC must not send or receive network traffic through the internet. Additionally, a NAT gateway requires an elastic IP address, which is a public IPv4 address4.
- C. A VPC peering connection is a networking connection between two VPCs that enables you to route traffic between them using private IPv4 addresses or IPv6 addresses5. However, this option does not work because Secrets Manager does not have a default VPC that can be peered with. Furthermore, a VPC peering connection does not provide a private connection to Secrets Manager APIs without an internet gateway or other devices2.

NEW QUESTION 68
During a manual review of system logs from an Amazon Linux EC2 instance, a Security Engineer noticed that there are sudo commands that were never properly alerted or reported on the Amazon CloudWatch Logs agent
Why were there no alerts on the sudo commands?

A. There is a security group blocking outbound port 80 traffic that is preventing the agent from sending the logs
B. The IAM instance profile on the EC2 instance was not properly configured to allow the CloudWatchLogs agent to push the logs to CloudWatch
C. CloudWatch Logs status is set to ON versus SECURE, which prevents it from pulling in OS security event logs
D. The VPC requires that all traffic go through a proxy, and the CloudWatch Logs agent does not support a proxy configuration.

Answer: B

Explanation:
the reason why there were no alerts on the sudo commands. Sudo commands are commands that allow a user to execute commands as another user, usually the superuser or root. CloudWatch Logs agent is a software agent that can send log data from an EC2 instance to CloudWatch Logs, a service that monitors and stores log data. The CloudWatch Logs agent needs an IAM instance profile, which is a container for an IAM role that allows applications running on an EC2 instance to make API requests to AWS services. If the IAM instance profile on the EC2 instance was not properly configured to allow the CloudWatch Logs agent to push the logs to CloudWatch, then there would be no alerts on the sudo commands. The other options are either irrelevant or invalid for explaining why there were no alerts on the sudo commands.

NEW QUESTION 69
A company is using Amazon Elastic Container Service (Amazon ECS) to deploy an application that deals with sensitive data During a recent security audit, the company identified a security issue in which Amazon RDS credentials were stored with the application code In the company's source code repository
A security engineer needs to develop a solution to ensure that database credentials are stored securely and rotated periodically. The credentials should be accessible to the application only The engineer also needs to prevent database administrators from sharing database credentials as plaintext with other teammates. The solution must also minimize administrate overhead
Which solution meets these requirements?

A. Use the IAM Systems Manager Parameter Store to generate database credential
B. Use an IAM profile for ECS tasks to restrict access to database credentials to specific containers only.
C. Use IAM Secrets Manager to store database credential
D. Use an IAM inline policy for ECS tasks to restrict access to database credentials to specific containers only.
E. Use the IAM Systems Manager Parameter Store to store database credential
F. Use IAM roles for ECS tasks to restrict access to database credentials lo specific containers only
G. Use IAM Secrets Manager to store database credential
H. Use IAM roles for ECS tasks to restrict access to database credentials to specific containers only.

Answer: D

Explanation:
To ensure that database credentials are stored securely and rotated periodically, the security engineer should do the following:

- Use AWS Secrets Manager to store database credentials. This allows the security engineer to encrypt and manage secrets centrally, and to configure automatic rotation schedules for them.

Use IAM roles for ECS tasks to restrict access to database credentials to specific containers only. This allows the security engineer to grant fine-grained permissions to ECS tasks based on their roles, and to avoid sharing credentials as plaintext with other teammates.

NEW QUESTION 70
A company is building a data processing application that uses AWS Lambda functions The application's Lambda functions need to communicate with an Amazon RDS OB instance that is deployed within a VPC in the same AWS account
Which solution meets these requirements in the MOST secure way?

A. Configure the DB instance to allow public access Update the DB instance security group to allow access from the Lambda public address space for the AWS Region
B. Deploy the Lambda functions inside the VPC Attach a network ACL to the Lambda subnet Provide outbound rule access to the VPC CIDR range only Update the DB instance security group to allow traffic from 0 0 0 0/0
C. Deploy the Lambda functions inside the VPC Attach a security group to the Lambda functions Provide outbound rule access to the VPC CIDR range only Update the DB instance security group to allow traffic from the Lambda security group
D. Peer the Lambda default VPC with the VPC that hosts the DB instance to allow direct network access without the need for security groups

Answer: C

Explanation:
The AWS documentation states that you can deploy the Lambda functions inside the VPC and attach a security group to the Lambda functions. You can then provide outbound rule access to the VPC CIDR range only and update the DB instance security group to allow traffic from the Lambda security group. This method is the most secure way to meet the requirements.
References: : AWS Lambda Developer Guide

NEW QUESTION 74
A company is using AWS Organizations to manage multiple AWS accounts for its hu-man resources, finance, software development, and production departments. All the company's developers are part of the software development AWS account.
The company discovers that developers have launched Amazon EC2 instances that were preconfigured with software that the company has not approved for use. The company wants to implement a solution to ensure that developers can launch EC2 instances with only approved software applications and only in the software de-velopment AWS account.
Which solution will meet these requirements?

A. In the software development account, create AMIS of preconfigured instanc-es that include only approved softwar
B. Include the AMI IDs in the condi-tion section of an AWS CloudFormation template to launch the appropriate AMI based on the AWS Regio
C. Provide the developers with theCloudFor-mation template to launch EC2 instances in the software development ac-count.
D. Create an Amazon EventBridge rule that runs when any EC2 RunInstances API event occurs in the software development accoun
E. Specify AWS Systems Man-ager Run Command as a target of the rul
F. Configure Run Command to run a script that will install all approved software onto the instances that the developers launch.
G. Use an AWS Service Catalog portfolio that contains EC2 products with ap-propriate AMIS that include only approved softwar
H. Grant the developers permission to portfolio access only the Service Catalog to launch a prod-uct in the software development account.
I. In the management account, create AMIS of preconfigured instances that in-clude only approved softwar
J. Use AWS CloudFormation StackSets to launch the AMIS across any AWS account in the organizatio
K. Grant the developers permission to launch the stack sets within the management account.

Answer: C

NEW QUESTION 78
A company has launched an Amazon EC2 instance with an Amazon Elastic Block Store (Amazon EBS) volume in the us-east-1 Region The volume is encrypted with an AWS Key Management Service (AWS KMS) customer managed key that the company's security team created The security team has created an 1AM key policy and has assigned the policy to the key The security team has also created an 1AM instance profile and has assigned the profile to the instance
The EC2 instance will not start and transitions from the pending state to the shutting-down state to the terminated state
Which combination of steps should a security engineer take to troubleshoot this issue? (Select TWO)

A. Verify that the KMS key policy specifies a deny statement that prevents access to the key by using the aws SourceIP condition key Check that the range includes the EC2 instance IP address that is associated with the EBS volume
B. Verify that the KMS key that is associated with the EBS volume is set to the Symmetric key type
C. Verify that the KMS key that is associated with the EBS volume is in the Enabled state
D. Verify that the EC2 role that is associated with the instance profile has the correct 1AM instance policy to launch an EC2 instance with the EBS volume
E. Verify that the key that is associated with the EBS volume has not expired and needs to be rotated

Answer: CD

Explanation:
To troubleshoot the issue of an EC2 instance failing to start and transitioning to a terminated state when it has an EBS volume encrypted with an AWS KMS customer managed key, a security engineer should take the following steps:
* C. Verify that the KMS key that is associated with the EBS volume is in the Enabled state. If the key is not enabled, it will not function properly and could cause the EC2 instance to fail.
* D. Verify that the EC2 role that is associated with the instance profile has the correct IAM instance policy to launch an EC2 instance with the EBS volume. If the instance does not have the necessary permissions, it may not be able to mount the volume and could cause the instance to fail.
Therefore, options C and D are the correct answers.

NEW QUESTION 83
A company has a web server in the AWS Cloud. The company will store the content for the web server in an Amazon S3 bucket. A security engineer must use an Amazon CloudFront distribution to speed up delivery of the content. None of the files can be publicly accessible from the S3 bucket direct.
Which solution will meet these requirements?

A. Configure the permissions on the individual files in the S3 bucket so that only the CloudFront distribution has access to them.
B. Create an origin access identity (OAI). Associate the OAI with the CloudFront distributio

C. Configure the S3 bucket permissions so that only the OAI can access the files in the S3 bucket.
D. Create an S3 role in AWS Identity and Access Management (IAM). Allow only the CloudFront distribution to assume the role to access the files in the S3 bucket.
E. Create an S3 bucket policy that uses only the CloudFront distribution ID as the principal and the Amazon Resource Name (ARN) as the target.

Answer: B

NEW QUESTION 84
A company usesAWS Organizations to run workloads in multiple AWS accounts Currently the individual team members at the company access all Amazon EC2 instances remotely by using SSH or Remote Desktop Protocol (RDP) The company does not have any audit trails and security groups are occasionally open The company must secure access management and implement a centralized togging solution
Which solution will meet these requirements MOST securely?

A. Configure trusted access for AWS System Manager in Organizations Configure a bastion host from the management account Replace SSH and RDP by using Systems Manager Session Manager from the management account Configure Session Manager logging to Amazon CloudWatch Logs
B. Replace SSH and RDP with AWS Systems Manager Session Manager Install Systems Manager Agent (SSM Agent) on the instances Attach the
C. AmazonSSMManagedInstanceCore role to the instances Configure session data streaming to Amazon CloudWatch Logs Create a separate logging account that has appropriate cross-account permissions to audit the log data
D. Install a bastion host in the management account Reconfigure all SSH and RDP to allow access only from the bastion host Install AWS Systems Manager Agent (SSM Agent) on the bastion host Attach the AmazonSSMManagedInstanceCore role to the bastion host Configure session data streaming to Amazon CloudWatch Logs in a separate logging account to audit log data
E. Replace SSH and RDP with AWS Systems Manager State Manager Install Systems Manager Agent (SSM Agent) on the instances Attach theAmazonSSMManagedInstanceCore role to the instances Configure session data streaming to AmazonCloudTrail Use CloudTrail Insights to analyze the trail data

Answer: C

Explanation:
To meet the requirements of securing access management and implementing a centralized logging solution, the most secure solution would be to:

- Install a bastion host in the management account.
- Reconfigure all SSH and RDP to allow access only from the bastion host.
- Install AWS Systems Manager Agent (SSM Agent) on the bastion host.
- Attach the AmazonSSMManagedInstanceCore role to the bastion host.
- Configure session data streaming to Amazon CloudWatch Logs in a separate logging account to audit log data

This solution provides the following security benefits:

- It uses AWS Systems Manager Session Manager instead of traditional SSH and RDP protocols, which provides a secure method for accessing EC2 instances without requiring inbound firewall rules or open ports.
- It provides audit trails by configuring Session Manager logging to Amazon CloudWatch Logs and creating a separate logging account to audit the log data.
- It uses the AWS Systems Manager Agent to automate common administrative tasks and improve the security posture of the instances.
- The separate logging account with cross-account permissions provides better data separation and improves security posture.

https://aws.amazon.com/solutions/implementations/centralized-logging/

NEW QUESTION 85
A security engineer is working with a company to design an ecommerce application. The application will run on Amazon EC2 instances that run in an Auto Scaling group behind an Application Load Balancer (ALB). The application will use an Amazon RDS DB instance for its database.
The only required connectivity from the internet is for HTTP and HTTPS traffic to the application. The application must communicate with an external payment provider that allows traffic only from a preconfigured allow list of IP addresses. The company must ensure that communications with the external payment provider are not interrupted as the environment scales.
Which combination of actions should the security engineer recommend to meet these requirements? (Select THREE.)

A. Deploy a NAT gateway in each private subnet for every Availability Zone that is in use.
B. Place the DB instance in a public subnet.
C. Place the DB instance in a private subnet.
D. Configure the Auto Scaling group to place the EC2 instances in a public subnet.
E. Configure the Auto Scaling group to place the EC2 instances in a private subnet.
F. Deploy the ALB in a private subnet.

Answer: ACE

NEW QUESTION 87
A developer 15 building a serverless application hosted on IAM that uses Amazon Redshift in a data store. The application has separate modules for read/write and read-only functionality. The modules need their own database users tor compliance reasons.
Which combination of steps should a security engineer implement to grant appropriate access' (Select TWO)

A. Configure cluster security groups for each application module to control access to database users that are required for read-only and read/write.
B. Configure a VPC endpoint for Amazon Redshift Configure an endpoint policy that maps database users to each application module, and allow access to the tables that are required for read-only and read/write
C. Configure an IAM poky for each module Specify the ARN of an Amazon Redshift database user that allows the GetClusterCredentials API call
D. Create focal database users for each module
E. Configure an IAM policy for each module Specify the ARN of an IAM user that allows the GetClusterCredentials API call

Answer: CD

Explanation:
To grant appropriate access to the application modules, the security engineer should do the following:

- Configure an IAM policy for each module. Specify the ARN of an Amazon Redshift database user that allows the GetClusterCredentials API call. This allows the application modules to use temporary credentials to access the database with the permissions of the specified user.

Create local database users for each module. This allows the security engineer to create separate users for read/write and read-only functionality, and to assign them different privileges on the database tables.

NEW QUESTION 91
A company is running its workloads in a single AWS Region and uses AWS Organizations. A security engineer must implement a solution to prevent users from launching resources in other Regions.
Which solution will meet these requirements with the LEAST operational overhead?

A. Create an IAM policy that has an aws RequestedRegion condition that allows actions only in the designated Region Attach the policy to all users.
B. Create an I AM policy that has an aws RequestedRegion condition that denies actions that are not in the designated Region Attach the policy to the AWS account in AWS Organizations.
C. Create an IAM policy that has an aws RequestedRegion condition that allows the desired actions Attach the policy only to the users who are in the designated Region.
D. Create an SCP that has an aws RequestedRegion condition that denies actions that are not in the designated Regio
E. Attach the SCP to the AWS account in AWS Organizations.

Answer: D

Explanation:
Although you can use a IAM policy to prevent users launching resources in other regions. The best practice is to use SCP when using AWS organizations.
https://docs.aws.amazon.com/organizations/latest/userguide/orgs_manage_policies_scps_examples_general.htm

NEW QUESTION 94
A business stores website images in an Amazon S3 bucket. The firm serves the photos to end users through Amazon CloudFront. The firm learned lately that the photographs are being accessible from nations in which it does not have a distribution license.
Which steps should the business take to safeguard the photographs and restrict their distribution? (Select two.)

A. Update the S3 bucket policy to restrict access to a CloudFront origin access identity (OAI).
B. Update the website DNS record to use an Amazon Route 53 geolocation record deny list of countries where the company lacks a license.
C. Add a CloudFront geo restriction deny list of countries where the company lacks a license.
D. Update the S3 bucket policy with a deny list of countries where the company lacks a license.
E. Enable the Restrict Viewer Access option in CloudFront to create a deny list of countries where the company lacks a license.

Answer: AC

Explanation:
For Enable Geo-Restriction, choose Yes. For Restriction Type, choose Whitelist to allow access to certain countries, or choose Blacklist to block access from certain countries. https://IAM.amazon.com/premiumsupport/knowledge-center/cloudfront-geo-restriction/

NEW QUESTION 97
A company has implemented IAM WAF and Amazon CloudFront for an application. The application runs on Amazon EC2 instances that are part of an Auto Scaling group. The Auto Scaling group is behind an Application Load Balancer (ALB).
The IAM WAF web ACL uses an IAM Managed Rules rule group and is associated with the CloudFront distribution. CloudFront receives the request from IAM WAF and then uses the ALB as the distribution's origin.
During a security review, a security engineer discovers that the infrastructure is susceptible to a large, layer 7 DDoS attack.
How can the security engineer improve the security at the edge of the solution to defend against this type of attack?

A. Configure the CloudFront distribution to use the Lambda@Edge featur
B. Create an IAM Lambda function that imposes a rate limit on CloudFront viewer request
C. Block the request if the rate limit is exceeded.
D. Configure the IAM WAF web ACL so that the web ACL has more capacity units to process all IAM WAF rules faster.
E. Configure IAM WAF with a rate-based rule that imposes a rate limit that automatically blocks requests when the rate limit is exceeded.
F. Configure the CloudFront distribution to use IAM WAF as its origin instead of the ALB.

Answer: C

Explanation:
To improve the security at the edge of the solution to defend against a large, layer 7 DDoS attack, the security engineer should do the following:
Configure AWS WAF with a rate-based rule that imposes a rate limit that automatically blocks requests when the rate limit is exceeded. This allows the security engineer to use a rule that tracks the number of requests from a single IP address and blocks subsequent requests if they exceed a specified threshold within a specified time period.

NEW QUESTION 101
A company became aware that one of its access keys was exposed on a code sharing website 11 days ago. A Security Engineer must review all use of the exposed access keys to determine the extent of the exposure. The company enabled IAM CloudTrail m an regions when it opened the account
Which of the following will allow (he Security Engineer 10 complete the task?

A. Filter the event history on the exposed access key in the CloudTrail console Examine the data from the past 11 days.
B. Use the IAM CLI lo generate an IAM credential report Extract all the data from the past 11 days.
C. Use Amazon Athena to query the CloudTrail logs from Amazon S3 Retrieve the rows for the exposed access key tor the past 11 days.
D. Use the Access Advisor tab in the IAM console to view all of the access key activity for the past 11 days.

Answer: C

Explanation:
Amazon Athena is a service that enables you to analyze data in Amazon S3 using standard SQL1. You can use Athena to query the CloudTrail logs that are stored in S3 and filter them by the exposed access key and the date range2. The other options are not effective ways to review the use of the exposed access key.

NEW QUESTION 104
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.)

A. Create a service role that has a composite principal that contains each service that needs the necessary permission
B. Configure the role to allow the sts:AssumeRole action.
C. Create a service role that has cloudformation.amazonaws.com as the service principa
D. Configure the role to allow the sts:AssumeRole action.
E. For each required set of permissions, add a separate policy to the role to allow those permission
F. Add the ARN of each CloudFormation stack in the resource field of each policy.
G. For each required set of permissions, add a separate policy to the role to allow those permission
H. Add the ARN of each service that needs the per-missions in the resource field of the corresponding policy.
I. Update each stack to use the service role.
J. Add a policy to each member role to allow the iam:PassRole actio
K. Set the policy's resource field to the ARN of the service role.

Answer: BDF

NEW QUESTION 106
A security engineer logs in to the AWS Lambda console with administrator permissions. The security engineer is trying to view logs in Amazon CloudWatch for a Lambda function that is named my Function.
When the security engineer chooses the option in the Lambda console to view logs in CloudWatch, an “error loading Log Streams" message appears.
The IAM policy for the Lambda function's execution role contains the following:

```
{
                “Version”: “2012-10-17”,
                “Statement”: [
                  {
                        “Effect”: “Allow”,
                        “Action”: “logs:CreateLogGroup”,
                        “Resource”: “arn:aws:logs:us-east-1:111111111111:*”
                  },
                  {
                        “Effect”: “Allow”,
                        “Action”: [“logs:PutLogEvents”],
                        “Resource”: [“arn:aws:logs:us-east-1:111111111111:log-
group:/aws/Lambda/myFunction:*”]
                  }
          ]
}
```

How should the security engineer correct the error?

A. Move the logs:CreateLogGroup action to the second Allow statement.
B. Add the logs:PutDestination action to the second Allow statement.
C. Add the logs:GetLogEvents action to the second Allow statement.
D. Add the logs:CreateLogStream action to the second Allow statement.

Answer: D

Explanation:
CloudWatchLogsReadOnlyAccess doesn't include "logs:CreateLogStream" but it includes "logs:Get*"
https://docs.aws.amazon.com/AmazonCloudWatch/latest/logs/iam-identity-based-access-control-cwl.html#:~:te

NEW QUESTION 107
A company needs to retain tog data archives for several years to be compliant with regulations. The tog data is no longer used but It must be retained
What Is the MOST secure and cost-effective solution to meet these requirements?

A. Archive the data to Amazon S3 and apply a restrictive bucket policy to deny the s3 DeleteOotect API
B. Archive the data to Amazon S3 Glacier and apply a Vault Lock policy
C. Archive the data to Amazon S3 and replicate it to a second bucket in a second IAM Region Choose the S3 Standard-Infrequent Access (S3 Standard-1A) storage class and apply a restrictive bucket policy to deny the s3 DeleteObject API
D. Migrate the log data to a 16 T8 Amazon Elastic Block Store (Amazon EBS) volume Create a snapshot of the EBS volume

Answer: B

Explanation:
To securely and cost-effectively retain log data archives for several years, the company should do the following:
Archive the data to Amazon S3 Glacier and apply a Vault Lock policy. This allows the company to use a low-cost storage class that is designed for long-term archival of data that is rarely accessed. It also allows the company to enforce compliance controls on their S3 Glacier vault by locking a vault access policy that cannot be changed.

NEW QUESTION 111
A company's policy requires that all API keys be encrypted and stored separately from source code in a centralized security account. This security account is managed by the company's security team However, an audit revealed that an API key is steed with the source code of an IAM Lambda function m an IAM CodeCommit repository in the DevOps account
How should the security learn securely store the API key?

A. Create a CodeCommit repository in the security account using IAM Key Management Service (IAMKMS) tor encryption Require the development team to migrate the Lambda source code to this repository
B. Store the API key in an Amazon S3 bucket in the security account using server-side encryption with Amazon S3 managed encryption keys (SSE-S3) to encrypt the key Create a resigned URL tor the S3 ke
C. and specify the URL m a Lambda environmental variable in the IAM CloudFormation template Update the Lambda function code to retrieve the key using the URL and call the API
D. Create a secret in IAM Secrets Manager in the security account to store the API key using IAM Key Management Service (IAM KMS) tor encryption Grant access to the IAM role used by the Lambda function so that the function can retrieve the key from Secrets Manager and call the API
E. Create an encrypted environment variable for the Lambda function to store the API key using IAM Key Management Service (IAM KMS) tor encryption Grant access to the IAM role used by the Lambda function so that the function can decrypt the key at runtime

Answer: C

Explanation:
To securely store the API key, the security team should do the following:

- Create a secret in AWS Secrets Manager in the security account to store the API key using AWS Key Management Service (AWS KMS) for encryption. This allows the security team to encrypt and manage the API key centrally, and to configure automatic rotation schedules for it.
- Grant access to the IAM role used by the Lambda function so that the function can retrieve the key from Secrets Manager and call the API. This allows the security team to avoid storing the API key with the source code, and to use IAM policies to control access to the secret.

NEW QUESTION 116
A Security Engineer has been tasked with enabling IAM Security Hub to monitor Amazon EC2 instances fix CVE in a single IAM account The Engineer has already enabled IAM Security Hub and Amazon Inspector m the IAM Management Console and has installed me Amazon Inspector agent on an EC2 instances that need to be monitored.
Which additional steps should the Security Engineer lake 10 meet this requirement?

A. Configure the Amazon inspector agent to use the CVE rule package
B. Configure the Amazon Inspector agent to use the CVE rule package Configure Security Hub to ingest from IAM inspector by writing a custom resource policy
C. Configure the Security Hub agent to use the CVE rule package Configure IAM Inspector lo ingest from Security Hub by writing a custom resource policy
D. Configure the Amazon Inspector agent to use the CVE rule package Install an additional Integration library Allow the Amazon Inspector agent to communicate with Security Hub

Answer: D

Explanation:
you need to configure the Amazon Inspector agent to use the CVE rule package, which is a set of rules that check for vulnerabilities and exposures on your EC2 instances5. You also need to install an additional integration library that enables communication between the Amazon Inspector agent and Security Hub6. Security Hub is a service that provides you with a comprehensive view of your security state in AWS and helps you check your environment against security industry standards and best practices7. The other options are either incorrect or incomplete for meeting the requirement.

NEW QUESTION 117
A company wants to configure DNS Security Extensions (DNSSEC) for the company's primary domain. The company registers the domain with Amazon Route 53. The company hosts the domain on Amazon EC2 instances by using BIND.
What is the MOST operationally efficient solution that meets this requirement?

A. Set the dnssec-enable option to yes in the BIND configuratio
B. Create a zone-signing key (ZSK) and a key-signing key (KSK) Restart the BIND service.
C. Migrate the zone to Route 53 with DNSSEC signing enable
D. Create a zone-signing key (ZSK) and a key-signing key (KSK) that are based on an AW
E. Key Management Service (AWS KMS) customer managed key.
F. Set the dnssec-enable option to yes in the BIND configuratio
G. Create a zone-signing key (ZSK) and a key-signing key (KSK). Run the dnssec-signzone command to generate a delegation signer (DS) record Use AW
H. Key Management Service (AWS KMS) to secure the keys.
I. Migrate the zone to Route 53 with DNSSEC signing enable
J. Create a key-signing key (KSK) that is based on an AWS Key Management Service (AWS KMS) customer managed ke
K. Add a delegation signer (DS) record to the parent zone.

Answer: D

Explanation:
To configure DNSSEC for a domain registered with Route 53, the most operationally efficient solution is to migrate the zone to Route 53 with DNSSEC signing enabled, create a key-signing key (KSK) that is based on an AWS Key Management Service (AWS KMS) customer managed key, and add a delegation signer (DS) record to the parent zone. This way, Route 53 handles the zone-signing key (ZSK) and the signing of the records in the hosted zone, and the customer only needs to manage the KSK in AWS KMS and provide the DS record to the domain registrar. Option A is incorrect because it does not involve migrating the zone to Route 53, which would simplify the DNSSEC configuration. Option B is incorrect because it creates both a ZSK and a KSK based on AWS KMS customer managed keys, which is unnecessary and less efficient than letting Route 53 manage the ZSK. Option C is incorrect because it does not involve migrating the zone to Route 53, and it requires running the dnssec-signzone command manually, which is less efficient than letting Route 53 sign the zone automatically. Verified References:

- https://docs.aws.amazon.com/Route53/latest/DeveloperGuide/domain-configure-dnssec.html
- https://aws.amazon.com/about-aws/whats-new/2020/12/announcing-amazon-route-53-support-dnssec/

NEW QUESTION 122
A company is developing an ecommerce application. The application uses Amazon EC2 instances and an Amazon RDS MySQL database. For compliance reasons, data must be secured in transit and at rest. The company needs a solution that minimizes operational overhead and minimizes cost.
Which solution meets these requirements?

A. Use TLS certificates from AWS Certificate Manager (ACM) with an Application Load Balancer.Deploy self-signed certificates on the EC2 instance
B. Ensure that the database client software uses a TLS connection to Amazon RD

C. Enable encryption of the RDS DB instanc
D. Enable encryption on the Amazon Elastic Block Store (Amazon EBS) volumes that support the EC2 instances.
E. Use TLS certificates from a third-party vendor with an Application Load Balance
F. Install the same certificates on the EC2 instance
G. Ensure that the database client software uses a TLS connection to Amazon RD
H. Use AWS Secrets Manager for client-side encryption of application data.
I. Use AWS CloudHSM to generate TLS certificates for the EC2 instance
J. Install the TLS certificates on the EC2 instance
K. Ensure that the database client software uses a TLS connection to Amazon RD
L. Use the encryption keys form CloudHSM for client-side encryption of application data.
M. Use Amazon CloudFront with AWS WA
N. Send HTTP connections to the origin EC2 instance
O. Ensure that the database client software uses a TLS connection to Amazon RD
P. Use AWS Key Management Service (AWS KMS) for client-side encryption of application data before the data is stored in the RDS database.

Answer: A

NEW QUESTION 126
A company uses a third-party application to store encrypted data in Amazon S3. The company uses another third-party application trial decrypts the data from Amazon S3 to ensure separation of duties Between the applications A Security Engineer warns to separate the permissions using IAM roles attached to Amazon EC2 instances. The company prefers to use native IAM services.
Which encryption method will meet these requirements?

A. Use encrypted Amazon EBS volumes with Amazon default keys (IAM EBS)
B. Use server-side encryption with customer-provided keys (SSE-C)
C. Use server-side encryption with IAM KMS managed keys (SSE-KMS)
D. Use server-side encryption with Amazon S3 managed keys (SSE-S3)

Answer: C

NEW QUESTION 130
A company is developing a highly resilient application to be hosted on multiple Amazon EC2 instances . The application will store highly sensitive user data in Amazon RDS tables
The application must
• Include migration to a different IAM Region in the application disaster recovery plan.
• Provide a full audit trail of encryption key administration events
• Allow only company administrators to administer keys.
• Protect data at rest using application layer encryption
A Security Engineer is evaluating options for encryption key management
Why should the Security Engineer choose IAM CloudHSM over IAM KMS for encryption key management in this situation?

A. The key administration event logging generated by CloudHSM is significantly more extensive than IAM KMS.
B. CloudHSM ensures that only company support staff can administer encryption keys, whereas IAM KMS allows IAM staff to administer keys
C. The ciphertext produced by CloudHSM provides more robust protection against brute force decryption attacks than the ciphertext produced by IAM KMS
D. CloudHSM provides the ability to copy keys to a different Region, whereas IAM KMS does not

Answer: B

Explanation:
CloudHSM allows full control of your keys such including Symmetric (AES), Asymmetric (RSA), Sha-256, SHA 512, Hash Based, Digital Signatures (RSA). On the other hand, AWS Key Management Service is a
multi-tenant key storage that is owned and managed by AWS1.
References: 1: What are the differences between AWS Cloud HSM and KMS?

NEW QUESTION 131
A company needs to use HTTPS when connecting to its web applications to meet compliance requirements. These web applications run in Amazon VPC on Amazon EC2 instances behind an Application Load Balancer (ALB). A security engineer wants to ensure that the load balancer win only accept connections over port 443. even if the ALB is mistakenly configured with an HTTP listener
Which configuration steps should the security engineer take to accomplish this task?

A. Create a security group with a rule that denies Inbound connections from 0.0.0 0/0 on port 00. Attach this security group to the ALB to overwrite more permissive rules from the ALB's default securitygroup.
B. Create a network ACL that denies inbound connections from 0 0.0.0/0 on port 80 Associate the network ACL with the VPC s internet gateway
C. Create a network ACL that allows outbound connections to the VPC IP range on port 443 only.Associate the network ACL with the VPC's internet gateway.
D. Create a security group with a single inbound rule that allows connections from 0.0.0 0/0 on port 443.Ensure this security group is the only one associated with the ALB

Answer: D

Explanation:
To ensure that the load balancer only accepts connections over port 443, the security engineer should do the following:
- Create a security group with a single inbound rule that allows connections from 0.0.0.0/0 on port 443.

This means that the security group allows HTTPS traffic from any source IP address.
- Ensure this security group is the only one associated with the ALB. This means that the security group overrides any other rules that might allow HTTP traffic on port 80.

NEW QUESTION 132
A Development team has built an experimental environment to test a simple stale web application It has built an isolated VPC with a private and a public subnet.

The public subnet holds only an Application Load Balancer a NAT gateway, and an internet gateway. The private subnet holds ail of the Amazon EC2 instances There are 3 different types of servers Each server type has its own Security Group that limits access lo only required connectivity. The Security Groups nave both inbound and outbound rules applied Each subnet has both inbound and outbound network ACls applied to limit access to only required connectivity
Which of the following should the team check if a server cannot establish an outbound connection to the
internet? (Select THREE.)

A. The route tables and the outbound rules on the appropriate private subnet security group
B. The outbound network ACL rules on the private subnet and the Inbound network ACL rules on the public subnet
C. The outbound network ACL rules on the private subnet and both the inbound and outbound rules on the public subnet
D. The rules on any host-based firewall that may be applied on the Amazon EC2 instances
E. The Security Group applied to the Application Load Balancer and NAT gateway
F. That the 0.0.0./0 route in the private subnet route table points to the internet gateway in the public subnet

Answer: CEF

Explanation:
because these are the factors that could affect the outbound connection to the internet from a server in a private subnet. The outbound network ACL rules on the private subnet and both the inbound and outbound rules on the public subnet must allow the traffic to pass through8. The security group applied to the application load balancer and NAT gateway must also allow the traffic from the private subnet9. The 0.0.0.0/0 route in the private subnet route table must point to the NAT gateway in the public subnet, not the internet gateway10. The other options are either irrelevant or incorrect for troubleshooting the outbound connection issue.

NEW QUESTION 137
A company uses identity federation to authenticate users into an identity account (987654321987) where the users assume an IAM role named IdentityRole. The users then assume an IAM role named JobFunctionRole in the target IAM account (123456789123) to perform their job functions.
A user is unable to assume the IAM role in the target account. The policy attached to the role in the identity account is:

```
{
    "Version": "2012-10-17",
    "Statement": [
        {
            "Action": [
                "sts:AssumeRole"
            ],
            "Resource": [
                "arn:aws:iam::*:role/JobFunctionRole"
            ],
            "Effect": "Allow"
        }
    ]
}
```

What should be done to enable the user to assume the appropriate role in the target account?

A Update the IAM policy attached to the role in the identity account to be:

```
{
    "Version": "2012-10-17",
    "Statement": [
        {
            "Action": [
                "sts:AssumeRole"
            ],
            "Resource": [
                "arn:aws:iam::123456789123:role/JobFunctionRole"
            ],
            "Effect": "Allow"
        }
    ]
}
```

B Update the trust policy on the role in the target account to be:

```
{
    "Version": "2012-10-17",
    "Statement": [
        {
            "Effect": "Allow",
            "Principal": {
                "AWS": "arn:aws:iam::987654321987:role/IdentityRole"
            },
            "Action": "sts:AssumeRole"
        }
    ]
}
```

C Update the trust policy on the role in the identity account to be:

```
{
    "Version": "2012-10-17",
    "Statement": [
        {
            "Effect": "Allow",
            "Principal": { "AWS": "arn:aws:iam::987654321987:root"
            },
            "Action": "sts:AssumeRole"
        }
    ]
}
```

D Update the IAM policy attached to the role in the target account to be:

```
{
    "Version": "2012-10-17",
    "Statement": [
        {
            "Sid": "Stmt1502946463000",
            "Effect": "Allow",
            "Action": "sts:AssumeRole",
            "Resource": "arn:aws:iam::123456789123:role/JobFunctionRole"
        }
    ]
}
```

A. Option A
B. Option B
C. Option C
D. Option D

Answer: B

Explanation:
https://aws.amazon.com/blogs/security/how-to-use-trust-policies-with-iam-roles/

NEW QUESTION 140
An application is running on an Amazon EC2 instance that has an IAM role attached. The IAM role provides access to an AWS Key Management Service (AWS KMS) customer managed key and an Amazon S3 bucket. The key is used to access 2 TB of sensitive data that is stored in the S3 bucket.
A security engineer discovers a potential vulnerability on the EC2 instance that could result in the compromise of the sensitive data. Due to other critical operations, the security engineer cannot immediately shut down the EC2 instance for vulnerability patching.
What is the FASTEST way to prevent the sensitive data from being exposed?

A. Download the data from the existing S3 bucket to a new EC2 instanc
B. Then delete the data from the S3 bucke
C. Re-encrypt the data with a client-based ke
D. Upload the data to a new S3 bucket.
E. Block access to the public range of S3 endpoint IP addresses by using a host-based firewal
F. Ensure that internet-bound traffic from the affected EC2 instance is routed through the host-based firewall.
G. Revoke the IAM role's active session permission
H. Update the S3 bucket policy to deny access to the IAM rol
I. Remove the IAM role from the EC2 instance profile.
J. Disable the current ke
K. Create a new KMS key that the IAM role does not have access to, and re-encrypt all the data with the new ke

L. Schedule the compromised key for deletion.

Answer: D

NEW QUESTION 143
A company is running internal microservices on Amazon Elastic Container Service (Amazon ECS) with the Amazon EC2 launch type. The company is using Amazon Elastic Container Registry (Amazon ECR) private repositories.
A security engineer needs to encrypt the private repositories by using AWS Key Management Service (AWS KMS). The security engineer also needs to analyze the container images for any common vulnerabilities and exposures (CVEs).
Which solution will meet these requirements?

A. Enable KMS encryption on the existing ECR repositorie
B. Install Amazon Inspector Agent from the ECS container instances' user dat
C. Run an assessment with the CVE rules.
D. Recreate the ECR repositories with KMS encryption and ECR scanning enable
E. Analyze the scan report after the next push of images.
F. Recreate the ECR repositories with KMS encryption and ECR scanning enable
G. Install AWS Systems Manager Agent on the ECS container instance
H. Run an inventory report.
I. Enable KMS encryption on the existing ECR repositorie
J. Use AWS Trusted Advisor to check the ECS container instances and to verily the findings against a list of current CVEs.

Answer: B

NEW QUESTION 145
Your development team is using access keys to develop an application that has access to S3 and DynamoDB. A new security policy has outlined that the credentials should not be older than 2 months, and should be rotated. How can you achieve this?
Please select:

A. Use the application to rotate the keys in every 2 months via the SDK
B. Use a script to query the creation date of the key
C. If older than 2 months, create new access key and update all applications to use it inactivate the old key and delete it.
D. Delete the user associated with the keys after every 2 month
E. Then recreate the user again.
F. Delete the IAM Role associated with the keys after every 2 month
G. Then recreate the IAM Role again.

Answer: B

Explanation:
One can use the CLI command list-access-keys to get the access keys. This command also returns the "CreateDate" of the keys. If the CreateDate is older than 2 months, then the keys can be deleted.
The Returns list-access-keys CLI command returns information about the access key IDs associated with the specified IAM user. If there are none, the action returns an empty list
Option A is incorrect because you might as use a script for such maintenance activities Option C is incorrect because you would not rotate the users themselves Option D is incorrect because you don't use IAM roles for such a purpose For more information on the CLI command, please refer to the below Link:
http://docs.IAM.amazon.com/cli/latest/reference/iam/list-access-keys.htmll
The correct answer is: Use a script to query the creation date of the keys. If older than 2 months, create new access key and update all applications to use it inactivate the old key and delete it.
Submit your Feedback/Queries to our Experts

NEW QUESTION 148
An audit determined that a company's Amazon EC2 instance security group violated company policy by allowing unrestricted incoming SSH traffic. A security engineer must implement a near-real-time monitoring and alerting solution that will notify administrators of such violations.
Which solution meets these requirements with the MOST operational efficiency?

A. Create a recurring Amazon Inspector assessment run that runs every day and uses the Network Reachability packag
B. Create an Amazon CloudWatch rule that invokes an IAM Lambda function when an assessment run start
C. Configure the Lambda function to retrieve and evaluate the assessment run report when it complete
D. Configure the Lambda function also to publish an Amazon Simple Notification Service (Amazon SNS) notification if there are any violations for unrestricted incoming SSH traffic.
E. Use the restricted-ssh IAM Config managed rule that is invoked by security group configuration changes that are not complian
F. Use the IAM Config remediation feature to publish a message to an Amazon Simple Notification Service (Amazon SNS) topic.
G. Configure VPC Flow Logs for the VP
H. and specify an Amazon CloudWatch Logs grou
I. Subscribe the CloudWatch Logs group to an IAM Lambda function that parses new log entries, detects successful connections on port 22, and publishes a notification through Amazon Simple Notification Service (Amazon SNS).
J. Create a recurring Amazon Inspector assessment run that runs every day and uses the Security Best Practices packag
K. Create an Amazon CloudWatch rule that invokes an IAM Lambda function when an assessment run start
L. Configure the Lambda function to retrieve and evaluate the assessment run report when it complete
M. Configure the Lambda function also to publish an Amazon Simple Notification Service (Amazon SNS) notification if there are any violations for unrestricted incoming SSH traffic.

Answer: B

Explanation:
The most operationally efficient solution to implement a near-real-time monitoring and alerting solution that will notify administrators of security group violations is to use the restricted-ssh AWS Config managed rule that is invoked by security group configuration changes that are not compliant. This rule checks whether security groups that are in use have inbound rules that allow unrestricted SSH traffic. If a violation is detected, AWS Config can use the remediation feature to

publish a message to an Amazon Simple Notification Service (Amazon SNS) topic.
Option A is incorrect because creating a recurring Amazon Inspector assessment run that uses the Network Reachability package is not operationally efficient, as it requires setting up an assessment target and template, running the assessment every day, and invoking a Lambda function to retrieve and evaluate the assessment report. It also does not provide near-real-time monitoring and alerting, as it depends on the frequency and duration of the assessment run.
Option C is incorrect because configuring VPC Flow Logs for the VPC and specifying an Amazon CloudWatch Logs group is not operationally efficient, as it requires creating a log group and stream, enabling VPC Flow Logs for each subnet or network interface, and subscribing a Lambda function to parse and analyze the log entries. It also does not provide proactive monitoring and alerting, as it only detects successful connections on port 22 after they have occurred.
Option D is incorrect because creating a recurring Amazon Inspector assessment run that uses the Security
Best Practices package is not operationally efficient, for the same reasons as option A. It also does not provide specific monitoring and alerting for security group violations, as it covers a broader range of security issues. References:

- [AWS Config Rules]
- [AWS Config Remediation]
- [Amazon Inspector]
- [VPC Flow Logs]

NEW QUESTION 151
A company receives a notification from the AWS Abuse team about an AWS account The notification indicates that a resource in the account is compromised The company determines that the compromised resource is an Amazon EC2 instance that hosts a web application The compromised EC2 instance is part of an EC2 Auto Scaling group
The EC2 instance accesses Amazon S3 and Amazon DynamoDB resources by using an 1AM access key and secret key The 1AM access key and secret key are stored inside the AMI that is specified in the Auto Scaling group's launch configuration The company is concerned that the credentials that are stored in the AMI might also have been exposed
The company must implement a solution that remediates the security concerns without causing downtime for the application The solution must comply with security best practices Which solution will meet these requirements'?

A. Rotate the potentially compromised access key that the EC2 instance uses Create a new AM I without the potentially compromised credentials Perform an EC2 Auto Scaling instance refresh
B. Delete or deactivate the potentially compromised access key Create an EC2 Auto Scaling linked 1AM role that includes a custom policy that matches the potentiallycompromised access key permission Associate the new 1AM role with the Auto Scaling group Perform an EC2 Auto Scaling instance refresh.
C. Delete or deactivate the potentially compromised access key Create a new AMI without the potentially compromised credentials Create an 1AM role that includes the correct permissions Create a launch template for the Auto Scaling group to reference the new AMI and 1AM role Perform an EC2 Auto Scaling instance refresh
D. Rotate the potentially compromised access key Create a new AMI without the potentially compromised access key Use a user data script to supply the new access key as environmental variables in the Auto Scaling group's launch configuration Perform an EC2 Auto Scaling instance refresh

Answer: C

Explanation:
The AWS documentation states that you can create a new AMI without the potentially compromised credentials and create an 1AM role that includes the correct permissions. You can then create a launch template for the Auto Scaling group to reference the new AMI and 1AM role. This method is the most secure way to remediate the security concerns without causing downtime for the application.
References: : AWS Security Best Practices

NEW QUESTION 156
A security engineer is configuring a new website that is named example.com. The security engineer wants to secure communications with the website by requiring users to connect to example.com through HTTPS.
Which of the following is a valid option for storing SSL/TLS certificates?

A. Custom SSL certificate that is stored in AWS Key Management Service (AWS KMS)
B. Default SSL certificate that is stored in Amazon CloudFront.
C. Custom SSL certificate that is stored in AWS Certificate Manager (ACM)
D. Default SSL certificate that is stored in Amazon S3

Answer: C

NEW QUESTION 157
A company is testing its incident response plan for compromised credentials. The company runs a database on an Amazon EC2 instance and stores the sensitive data-base credentials as a secret in AWS Secrets Manager. The secret has rotation configured with an AWS Lambda function that uses the generic rotation function template. The EC2 instance and the Lambda function are deployed in the same pri-vate subnet. The VPC has a Secrets Manager VPC endpoint.
A security engineer discovers that the secret cannot rotate. The security engi-neer determines that the VPC endpoint is working as intended. The Amazon Cloud-Watch logs contain the following error:
"setSecret: Unable to log into database". Which solution will resolve this error?

A. Use the AWS Management Console to edit the JSON structure of the secret in Secrets Manager so that the secret automatically conforms with the struc-ture that the database requires.
B. Ensure that the security group that is attached to the Lambda function al-lows outbound connections to the EC2 instanc
C. Ensure that the security group that is attached to the EC2 instance allows inbound connections from the security group that is attached to the Lambda function.
D. Use the Secrets Manager list-secrets command in the AWS CLI to list the secre
E. Identify the database credential
F. Use the Secrets Manager rotate-secret command in the AWS CLI to force the immediate rotation of the se-cret.
G. Add an internet gateway to the VP
H. Create a NAT gateway in a public sub-ne
I. Update the VPC route tables so that traffic from the Lambda function and traffic from the EC2 instance can reach the Secrets Manager public endpoint.

Answer: B

Explanation:
This answer is correct because ensuring that the security groups allow bidirectional communication between the Lambda function and the EC2 instance will

resolve the error. The error indicates that the Lambda function cannot connect to the database, which might be due to firewall rules blocking the traffic. By allowing outbound connections from the Lambda function and inbound connections to the EC2 instance, the security engineer can enable the rotation function to access and update the database credentials.

NEW QUESTION 158

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