



Amazon-Web-Services

Exam Questions SCS-C02

AWS Certified Security - Specialty

NEW QUESTION 1

- (Exam Topic 1)

An application is currently secured using network access control lists and security groups. Web servers are located in public subnets behind an Application Load Balancer (ALB); application servers are located in private subnets.

How can edge security be enhanced to safeguard the Amazon EC2 instances against attack? (Choose two.)

- A. Configure the application's EC2 instances to use NAT gateways for all inbound traffic.
- B. Move the web servers to private subnets without public IP addresses.
- C. Configure IAM WAF to provide DDoS attack protection for the ALB.
- D. Require all inbound network traffic to route through a bastion host in the private subnet.
- E. Require all inbound and outbound network traffic to route through an IAM Direct Connect connection.

Answer: BC

NEW QUESTION 2

- (Exam Topic 1)

A Developer is building a serverless application that uses Amazon API Gateway as the front end. The application will not be publicly accessible. Other legacy applications running on Amazon EC2 will make calls to the application. A Security Engineer has been asked to review the security controls for authentication and authorization of the application.

Which combination of actions would provide the MOST secure solution? (Select TWO.)

- A. Configure an IAM policy that allows the least permissive actions to communicate with the API Gateway. Attach the policy to the role used by the legacy EC2 instances.
- B. Enable IAM WAF for API Gateway. Configure rules to explicitly allow connections from the legacy EC2 instances.
- C. Create a VPC endpoint for API Gateway. Attach an IAM resource policy that allows the role of the legacy EC2 instances to call specific APIs.
- D. Create a usage plan. Generate a set of API keys for each application that needs to call the API.
- E. Configure cross-origin resource sharing (CORS) in each API. Share the CORS information with the applications that call the API.

Answer: AE

NEW QUESTION 3

- (Exam Topic 1)

An application running on Amazon EC2 instances generates log files in a folder on a Linux file system. The instances block access to the console and file transfer utilities, such as Secure Copy Protocol (SCP) and Secure File Transfer Protocol (SFTP). The Application Support team wants to automatically monitor the application log files so the team can set up notifications in the future.

A Security Engineer must design a solution that meets the following requirements:

- Make the log files available through an IAM managed service.
- Allow for automatic monitoring of the logs.
- Provide an interface for analyzing logs.
- Minimize effort.

Which approach meets these requirements?

- A. Modify the application to use the IAM SDK.
- B. Write the application logs to an Amazon S3 bucket.
- C. Install the unified Amazon CloudWatch agent on the instances. Configure the agent to collect the application log files on the EC2 file system and send them to Amazon CloudWatch Logs.
- D. Install IAM Systems Manager Agent on the instances. Configure an automation document to copy the application log files to IAM DeepLens.
- E. Install Amazon Kinesis Agent on the instances. Stream the application log files to Amazon Kinesis Data Firehose and set the destination to Amazon Elasticsearch Service.

Answer: D

NEW QUESTION 4

- (Exam Topic 1)

A company has a website with an Amazon CloudFront HTTPS distribution, an Application Load Balancer (ALB) with multiple web instances for dynamic website content, and an Amazon S3 bucket for static website content. The company's security engineer recently updated the website security requirements:

- HTTPS needs to be enforced for all data in transit with specific ciphers.
- The CloudFront distribution needs to be accessible from the internet only. Which solution will meet these requirements?

- A. Set up an S3 bucket policy with the IAM:securetransport key. Configure the CloudFront origin access identity (OAI) with the S3 bucket. Configure CloudFront to use specific cipher.
- B. Enforce the ALB with an HTTPS listener only and select the appropriate security policy for the ciphers. Link the ALB with IAM WAF to allow access from the CloudFront IP ranges.
- C. Set up an S3 bucket policy with the IAM:securetransport key.
- D. Configure the CloudFront origin access identity (OAI) with the S3 bucket.
- E. Enforce the ALB with an HTTPS listener only and select the appropriate security policy for the ciphers.
- F. Modify the CloudFront distribution to use IAM WAF.
- G. Force HTTPS on the S3 bucket with specific ciphers in the bucket policy.
- H. Configure an HTTPS listener only for the ALB.
- I. Set up a security group to limit access to the ALB from the CloudFront IP ranges.
- J. Modify the CloudFront distribution to use the ALB as the origin.
- K. Enforce an HTTPS listener on the ALB.
- L. Create a path-based routing rule on the ALB with proxies that connect to Amazon S3. Create a bucket policy to allow access from these proxies only.

Answer: A

Explanation:

<https://IAM.amazonaws.com/blogs/security/automatically-update-IAM-waf-ip-sets-with-IAM-ip-ranges/> to update CF ip range.

NEW QUESTION 5

- (Exam Topic 1)

An external Auditor finds that a company's user passwords have no minimum length. The company is currently using two identity providers:

- IAM IAM federated with on-premises Active Directory
- Amazon Cognito user pools to accessing an IAM Cloud application developed by the company Which combination of actions should the Security Engineer take to solve this issue? (Select TWO.)

- A. Update the password length policy In the on-premises Active Directory configuration.
- B. Update the password length policy In the IAM configuration.
- C. Enforce an IAM policy In Amazon Cognito and IAM IAM with a minimum password length condition.
- D. Update the password length policy in the Amazon Cognito configuration.
- E. Create an SCP with IAM Organizations that enforces a minimum password length for IAM IAM and Amazon Cognito.

Answer: AD

NEW QUESTION 6

- (Exam Topic 1)

A company had one of its Amazon EC2 key pairs compromised. A Security Engineer must identify which current Linux EC2 instances were deployed and used the compromised key pair.

How can this task be accomplished?

- A. Obtain the list of instances by directly querying Amazon EC2 using: IAM ec2 describe-instances--filters "Name=key-name,Values=KEYNAMEHERE".
- B. Obtain the fingerprint for the key pair from the IAM Management Console, then search for the fingerprint in the Amazon Inspector logs.
- C. Obtain the output from the EC2 instance metadata using: curl http://169.254.169.254/latest/meta-data/public-keys/0/.
- D. Obtain the fingerprint for the key pair from the IAM Management Console, then search for the fingerprint in Amazon CloudWatch Logs using: IAM logs filter-log-events.

Answer: A

NEW QUESTION 7

- (Exam Topic 1)

A company's architecture requires that its three Amazon EC2 instances run behind an Application Load Balancer (ALB). The EC2 instances transmit sensitive data between each other. Developers use SSL certificates to encrypt the traffic between the public users and the ALB. However, the Developers are unsure of how to encrypt the data in transit between the ALB and the EC2 instances and the traffic between the EC2 instances.

Which combination of activities must the company implement to meet its encryption requirements? (Select TWO)

- A. Configure SSL/TLS on the EC2 instances and configure the ALB target group to use HTTPS
- B. Ensure that all resources are in the same VPC so the default encryption provided by the VPC is used to encrypt the traffic between the EC2 instances.
- C. In the ALB
- D. select the default encryption to encrypt the traffic between the ALB and the EC2 instances
- E. In the code for the application, include a cryptography library and encrypt the data before sending it between the EC2 instances
- F. Configure IAM Direct Connect to provide an encrypted tunnel between the EC2 instances

Answer: BC

NEW QUESTION 8

- (Exam Topic 1)

A security engineer is designing an incident response plan to address the risk of a compromised Amazon EC2 instance. The plan must recommend a solution to meet the following requirements:

- A trusted forensic environment must be provisioned
- Automated response processes must be orchestrated

Which IAM services should be included in the plan? (Select TWO)

- A. IAM CloudFormation
- B. Amazon GuardDuty
- C. Amazon Inspector
- D. Amazon Macie
- E. IAM Step Functions

Answer: AE

NEW QUESTION 9

- (Exam Topic 1)

A security engineer needs to configure monitoring and auditing for IAM Lambda.

Which combination of actions using IAM services should the security engineer take to accomplish this goal? (Select TWO.)

- A. Use IAM Config to track configuration changes to Lambda functions, runtime environments, tags, handler names, code sizes, memory allocation, timeout settings, and concurrency settings, along with Lambda IAM execution role, subnet, and security group associations.
- B. Use IAM CloudTrail to implement governance, compliance, operational, and risk auditing for Lambda.
- C. Use Amazon Inspector to automatically monitor for vulnerabilities and perform governance, compliance, operational, and risk auditing for Lambda.
- D. Use IAM Resource Access Manager to track configuration changes to Lambda functions, runtime environments, tags, handler names, code sizes, memory allocation, timeout settings, and concurrency settings, along with Lambda IAM execution role, subnet, and security group associations.
- E. Use Amazon Macie to discover, classify, and protect sensitive data being executed inside the Lambda function.

Answer: AB

NEW QUESTION 10

- (Exam Topic 1)

A company is outsourcing its operational support to an external company. The company's security officer must implement an access solution for delegating operational support that minimizes overhead.

Which approach should the security officer take to meet these requirements?

- A. implement Amazon Cognito identity pools with a role that uses a policy that denies the actions related to Amazon Cognito API management Allow the external company to federate through its identity provider
- B. Federate IAM identity and Access Management (IAM) with the external company's identity provider Create an IAM role and attach a policy with the necessary permissions
- C. Create an IAM group for the external company Add a policy to the group that denies IAM modifications Securely provide the credentials to the external company.
- D. Use IAM SSO with the external company's identity provider
- E. Create an IAM group to map to the identity provider user group, and attach a policy with the necessary permissions.

Answer: B

NEW QUESTION 10

- (Exam Topic 1)

A company has recently recovered from a security incident that required the restoration of Amazon EC2 instances from snapshots.

After performing a gap analysis of its disaster recovery procedures and backup strategies, the company is concerned that, next time, it will not be able to recover the EC2 instances if the IAM account was compromised and Amazon EBS snapshots were deleted.

All EBS snapshots are encrypted using an IAM KMS CMK. Which solution would solve this problem?

- A. Create a new Amazon S3 bucket Use EBS lifecycle policies to move EBS snapshots to the new S3 bucket
- B. Move snapshots to Amazon S3 Glacier using lifecycle policies, and apply Glacier Vault Lock policies to prevent deletion
- C. Use IAM Systems Manager to distribute a configuration that performs local backups of all attached disks to Amazon S3.
- D. Create a new IAM account with limited privilege
- E. Allow the new account to access the IAM KMS key used to encrypt the EBS snapshots, and copy the encrypted snapshots to the new account on a recurring basis
- F. Use IAM Backup to copy EBS snapshots to Amazon S3.

Answer: A

NEW QUESTION 15

- (Exam Topic 1)

A company requires that SSH commands used to access its IAM instance be traceable to the user who executed each command.

How should a Security Engineer accomplish this?

- A. Allow inbound access on port 22 at the security group attached to the instance Use IAM Systems Manager Session Manager for shell access to Amazon EC2 instances with the user tag defined Enable Amazon CloudWatch logging for Systems Manager sessions
- B. Use Amazon S3 to securely store one Privacy Enhanced Mail Certificate (PEM file) for each user Allow Amazon EC2 to read from Amazon S3 and import every user that wants to use SSH to access EC2 instances Allow inbound access on port 22 at the security group attached to the instance Install the Amazon CloudWatch agent on the EC2 instance and configure it to ingest audit logs for the instance
- C. Deny inbound access on port 22 at the security group attached to the instance Use IAM Systems Manager Session Manager for shell access to Amazon EC2 instances with the user tag defined Enable Amazon CloudWatch logging for Systems Manager sessions
- D. Use Amazon S3 to securely store one Privacy Enhanced Mail Certificate (PEM file) for each team or group Allow Amazon EC2 to read from Amazon S3 and import every user that wants to use SSH to access EC2 instances Allow inbound access on port 22 at the security group attached to the instance Install the Amazon CloudWatch agent on the EC2 instance and configure it to ingest audit logs for the instance

Answer: C

NEW QUESTION 17

- (Exam Topic 1)

A company has a VPC with several Amazon EC2 instances behind a NAT gateway. The company's security policy states that all network traffic must be logged and must include the original source and destination IP addresses. The existing VPC Flow Logs do not include this information. A security engineer needs to recommend a solution.

Which combination of steps should the security engineer recommend? (Select TWO)

- A. Edit the existing VPC Flow Log
- B. Change the log format of the VPC Flow Logs from the Amazon default format to a custom format.
- C. Delete and recreate the existing VPC Flow Log
- D. Change the log format of the VPC Flow Logs from the Amazon default format to a custom format.
- E. Change the destination to Amazon CloudWatch Logs.
- F. Include the pkt-srcaddr and pkt-destaddr fields in the log format.
- G. Include the subnet-id and instance-id fields in the log format.

Answer: AE

NEW QUESTION 22

- (Exam Topic 1)

A company recently performed an annual security assessment of its IAM environment. The assessment showed that audit logs are not available beyond 90 days and that unauthorized changes to IAM policies are made without detection.

How should a security engineer resolve these issues?

- A. Create an Amazon S3 lifecycle policy that archives IAM CloudTrail trail logs to Amazon S3 Glacier after 90 days
- B. Configure Amazon Inspector to provide a notification when a policy change is made to resources.
- C. Configure IAM Artifact to archive IAM CloudTrail logs Configure IAM Trusted Advisor to provide a notification when a policy change is made to resources.
- D. Configure Amazon CloudWatch to export log groups to Amazon S3. Configure IAM CloudTrail to provide a notification when a policy change is made to resources.
- E. Create an IAM CloudTrail trail that stores audit logs in Amazon S3. Configure an IAM Config rule to provide a notification when a policy change is made to

resources.

Answer: D

Explanation:

<https://docs.IAM.amazon.com/IAMcloudtrail/latest/userguide/best-practices-security.html>

"For an ongoing record of events in your IAM account, you must create a trail. Although CloudTrail provides 90 days of event history information for management events in the CloudTrail console without creating a trail, it is not a permanent record, and it does not provide information about all possible types of events. For an ongoing record, and for a record that contains all the event types you specify, you must create a trail, which delivers log files to an Amazon S3 bucket that you specify."

<https://IAM.amazon.com/blogs/security/how-to-record-and-govern-your-iam-resource-configurations-using-IAM>

NEW QUESTION 26

- (Exam Topic 1)

A large government organization is moving to the cloud and has specific encryption requirements. The first workload to move requires that a customer's data be immediately destroyed when the customer makes that request.

Management has asked the security team to provide a solution that will securely store the data, allow only authorized applications to perform encryption and decryption and allow for immediate destruction of the data

Which solution will meet these requirements?

- A. Use IAM Secrets Manager and an IAM SDK to create a unique secret for the customer-specific data
- B. Use IAM Key Management Service (IAM KMS) and the IAM Encryption SDK to generate and store a data encryption key for each customer.
- C. Use IAM Key Management Service (IAM KMS) with service-managed keys to generate and store customer-specific data encryption keys
- D. Use IAM Key Management Service (IAM KMS) and create an IAM CloudHSM custom key store Use CloudHSM to generate and store a new CMK for each customer.

Answer: A

NEW QUESTION 29

- (Exam Topic 1)

A global company must mitigate and respond to DDoS attacks at Layers 3, 4 and 7 All of the company's IAM applications are serverless with static content hosted on Amazon S3 using Amazon CloudFront and Amazon Route 53

Which solution will meet these requirements?

- A. Use IAM WAF with an upgrade to the IAM Business support plan
- B. Use IAM Certificate Manager with an Application Load Balancer configured with an origin access identity
- C. Use IAM Shield Advanced
- D. Use IAM WAF to protect IAM Lambda functions encrypted with IAM KMS and a NACL restricting all Ingress traffic

Answer: C

NEW QUESTION 32

- (Exam Topic 1)

A company's application runs on Amazon EC2 and stores data in an Amazon S3 bucket The company wants additional security controls in place to limit the likelihood of accidental exposure of data to external parties

Which combination of actions will meet this requirement? (Select THREE.)

- A. Encrypt the data in Amazon S3 using server-side encryption with Amazon S3 managed encryption keys (SSE-S3)
- B. Encrypt the data in Amazon S3 using server-side encryption with IAM KMS managed encryption keys (SSE-KMS)
- C. Create a new Amazon S3 VPC endpoint and modify the VPC's routing tables to use the new endpoint
- D. Use the Amazon S3 Block Public Access feature.
- E. Configure the bucket policy to allow access from the application instances only
- F. Use a NACL to filter traffic to Amazon S3

Answer: BCE

NEW QUESTION 37

- (Exam Topic 1)

A company's on-premises data center forwards DNS logs to a third-party security incident events management (SIEM) solution that alerts on suspicious behavior. The company wants to introduce a similar capability to its IAM accounts that includes automatic remediation. The company expects to double in size within the next few months.

Which solution meets the company's current and future logging requirements?

- A. Enable Amazon GuardDuty and IAM Security Hub in all Regions and all account
- B. Designate a master security account to receive all alerts from the child account
- C. Set up specific rules within Amazon EventBridge to trigger an IAM Lambda function for remediation steps.
- D. Ingest all IAM CloudTrail logs, VPC Flow Logs, and DNS logs into a single Amazon S3 bucket in a designated security account
- E. Use the current on-premises SIEM to monitor the logs and send a notification to an Amazon SNS topic to alert the security team of remediation steps.
- F. Ingest all IAM CloudTrail logs, VPC Flow Logs, and DNS logs into a single Amazon S3 bucket in a designated security account
- G. Launch an Amazon EC2 instance and install the current SIEM to monitor the logs and send a notification to an Amazon SNS topic to alert the security team of remediation steps.
- H. Enable Amazon GuardDuty and IAM Security Hub in all Regions and all account
- I. Designate a master security account to receive all alerts from the child account
- J. Create an IAM Organizations SCP that denies access to certain API calls that are on an ignore list.

Answer: A

NEW QUESTION 39

- (Exam Topic 1)

A Security Engineer is looking for a way to control access to data that is being encrypted under a CMK. The Engineer is also looking to use additional authenticated data (AAD) to prevent tampering with ciphertext. Which action would provide the required functionality?

- A. Pass the key alias to IAM KMS when calling Encrypt and Decrypt API actions.
- B. Use IAM policies to restrict access to Encrypt and Decrypt API actions.
- C. Use kms:EncryptionContext as a condition when defining IAM policies for the CMK.
- D. Use key policies to restrict access to the appropriate IAM groups.

Answer: C

Explanation:

<https://IAM.amazon.com/blogs/security/how-to-protect-the-integrity-of-your-encrypted-data-by-using-IAM-key> One of the most important and critical concepts in IAM Key Management Service (KMS) for advanced and secure data usage is EncryptionContext. Using EncryptionContext properly can help significantly improve the security of your applications. EncryptionContext is a key-value map (both strings) that is provided to KMS with each encryption and decryption request. EncryptionContext provides three benefits: Additional authenticated data (AAD), Audit trail, Authorization context

NEW QUESTION 43

- (Exam Topic 1)

A company uses Microsoft Active Directory for access management for on-premises resources and wants to use the same mechanism for accessing its IAM accounts. Additionally, the development team plans to launch a public-facing application for which they need a separate authentication solution. When come nation of the following would satisfy these requirements? (Select TWO)

- A. Set up domain controllers on Amazon EC2 to extend the on-premises directory to IAM
- B. Establish network connectivity between on-premises and the user's VPC
- C. Use Amazon Cognito user pools for application authentication
- D. Use AD Connector for application authentication.
- E. Set up federated sign-in to IAM through ADFS and SAML.

Answer: CD

NEW QUESTION 47

- (Exam Topic 1)

A security engineer must develop an encryption tool for a company. The company requires a cryptographic solution that supports the ability to perform cryptographic erasure on all resources protected by the key material in 15 minutes or less. Which IAM Key Management Service (IAM KMS) key solution will allow the security engineer to meet these requirements?

- A. Use Imported key material with CMK
- B. Use an IAM KMS CMK
- C. Use an IAM managed CMK.
- D. Use an IAM KMS customer managed CMK

Answer: C

NEW QUESTION 51

- (Exam Topic 1)

A company uses multiple IAM accounts managed with IAM Organizations. Security engineers have created a standard set of security groups for all these accounts. The security policy requires that these security groups be used for all applications and delegates modification authority to the security team only. A recent security audit found that the security groups are inconsistency implemented across accounts and that unauthorized changes have been made to the security groups. A security engineer needs to recommend a solution to improve consistency and to prevent unauthorized changes in the individual accounts in the future. Which solution should the security engineer recommend?

- A. Use IAM Resource Access Manager to create shared resources for each required security group and apply an IAM policy that permits read-only access to the security groups only.
- B. Create an IAM CloudFormation template that creates the required security groups. Execute the template as part of configuring new accounts. Enable Amazon Simple Notification Service (Amazon SNS) notifications when changes occur.
- C. Use IAM Firewall Manager to create a security group policy, enable the policy feature to identify and revert local changes, and enable automatic remediation.
- D. Use IAM Control Tower to edit the account factory template to enable the share security groups option. Apply an SCP to the OU or individual accounts that prohibits security group modifications from local account users.

Answer: B

NEW QUESTION 56

- (Exam Topic 1)

An company is using IAM Secrets Manager to store secrets that are encrypted using a CMK and are stored in the security account 111122223333. One of the company's production accounts, 444455556666, must retrieve the secret values from the security account 111122223333. A security engineer needs to apply a policy to the secret in the security account based on least privilege access so the production account can retrieve the secret value only. Which policy should the security engineer apply?

A.

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": "secretsmanager:*",
      "Principal": {"AWS": "444455556666"},
      "Resource": "*"
    }
  ]
}
```

B.

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": "secretsmanager:*",
      "Principal": {"AWS": "111122223333"},
      "Resource": "*"
    }
  ]
}
```

C.

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": "secretsmanager:GetSecretValue",
      "Principal": {"AWS": "111122223333"},
      "Resource": "*"
    }
  ]
}
```

D.

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": "secretsmanager:GetSecretValue",
      "Principal": {"AWS": "444455556666"},
      "Resource": "*"
    }
  ]
}
```

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

Answer: A

NEW QUESTION 60

- (Exam Topic 1)

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

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

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

Answer: BDF

NEW QUESTION 63

- (Exam Topic 1)

A company's Developers plan to migrate their on-premises applications to Amazon EC2 instances running Amazon Linux AMIs. The applications are accessed by a group of partner companies. The Security Engineer needs to implement the following host-based security measures for these instances:

- Block traffic from documented known bad IP addresses
- Detect known software vulnerabilities and CIS Benchmarks compliance. Which solution addresses these requirements?

- A. Launch the EC2 instances with an IAM role attached
- B. Include a user data script that uses the IAM CLI to retrieve the list of bad IP addresses from IAM Secrets Manager and uploads it as a threat list in Amazon GuardDuty. Use Amazon Inspector to scan the instances for known software vulnerabilities and CIS Benchmarks compliance.
- C. Launch the EC2 instances with an IAM role attached. Include a user data script that uses the IAM CLI to create NACLs blocking ingress traffic from the known bad IP addresses in the EC2 instance's subnets. Use IAM Systems Manager to scan the instances for known software vulnerabilities, and IAM Trusted Advisor to

check instances for CIS Benchmarks compliance

D. Launch the EC2 instances with an IAM role attached Include a user data script that uses the IAM CLI to create and attach security groups that only allow an allow listed source IP address range inbound

E. Use Amazon Inspector to scan the instances for known software vulnerabilities, and IAM Trusted Advisor to check instances for CIS Benchmarks compliance

F. Launch the EC2 instances with an IAM role attached Include a user data script that creates a cron job to periodically retrieve the list of bad IP addresses from Amazon S3, and configures iptables on the instances blocking the list of bad IP addresses Use Amazon inspector to scan the instances for known software vulnerabilities and CIS Benchmarks compliance.

Answer: D

NEW QUESTION 66

- (Exam Topic 1)

A Security Engineer accidentally deleted the imported key material in an IAM KMS CMK. What should the Security Engineer do to restore the deleted key material?

- A. Create a new CM
- B. Download a new wrapping key and a new import token to import the original key material
- C. Create a new CMK Use the original wrapping key and import token to import the original key material.
- D. Download a new wrapping key and a new import token Import the original key material into the existing CMK.
- E. Use the original wrapping key and import token Import the original key material into the existing CMK

Answer: C

NEW QUESTION 70

- (Exam Topic 1)

A Security Engineer is setting up an IAM CloudTrail trail for all regions in an IAM account. For added security, the logs are stored using server-side encryption with IAM KMS-managed keys (SSE-KMS) and have log integrity validation enabled.

While testing the solution, the Security Engineer discovers that the digest files are readable, but the log files are not. What is the MOST likely cause?

- A. The log files fail integrity validation and automatically are marked as unavailable.
- B. The KMS key policy does not grant the Security Engineer's IAM user or role permissions to decrypt with it.
- C. The bucket is set up to use server-side encryption with Amazon S3-managed keys (SSE-S3) as the default and does not allow SSE-KMS-encrypted files.
- D. An IAM policy applicable to the Security Engineer's IAM user or role denies access to the "CloudTrail/" prefix in the Amazon S3 bucket

Answer: B

Explanation:

Enabling server-side encryption encrypts the log files but not the digest files with SSE-KMS. Digest files are encrypted with Amazon S3-managed encryption keys (SSE-S3). <https://docs.IAM.amazon.com/IAMcloudtrail/latest/userguide/encrypting-cloudtrail-log-files-with-IAM-kms.htm>

NEW QUESTION 71

- (Exam Topic 1)

A company hosts a web-based application that captures and stores sensitive data in an Amazon DynamoDB table. A security audit reveals that the application does not provide end-to-end data protection or the ability to detect unauthorized data changes The software engineering team needs to make changes that will address the audit findings.

Which set of steps should the software engineering team take?

- A. Use an IAM Key Management Service (IAM KMS) CM
- B. Encrypt the data at rest.
- C. Use IAM Certificate Manager (ACM) Private Certificate Authority Encrypt the data in transit.
- D. Use a DynamoDB encryption client
- E. Use client-side encryption and sign the table items
- F. Use the IAM Encryption SD
- G. Use client-side encryption and sign the table items.

Answer: A

NEW QUESTION 73

- (Exam Topic 1)

A Security Engineer has launched multiple Amazon EC2 instances from a private AMI using an IAM CloudFormation template. The Engineer notices instances terminating right after they are launched.

What could be causing these terminations?

- A. The IAM user launching those instances is missing ec2:Runinstances permission.
- B. The AMI used as encrypted and the IAM does not have the required IAM KMS permissions.
- C. The instance profile used with the EC2 instances is unable to query instance metadata.
- D. IAM currently does not have sufficient capacity in the Region.

Answer: B

Explanation:

<https://docs.IAM.amazon.com/IAMEC2/latest/UserGuide/troubleshooting-launch.html>

NEW QUESTION 78

- (Exam Topic 1)

A Security Engineer has discovered that, although encryption was enabled on the Amazon S3 bucket example bucket, anyone who has access to the bucket has the ability to retrieve the files. The Engineer wants to limit access to each IAM user can access an assigned folder only.

What should the Security Engineer do to achieve this?

- A. Use envelope encryption with the IAM-managed CMK IAM/s3.
- B. Create a customer-managed CMK with a key policy granting “kms:Decrypt” based on the “\${IAM:username}” variable.
- C. Create a customer-managed CMK for each use
- D. Add each user as a key user in their corresponding key policy.
- E. Change the applicable IAM policy to grant S3 access to “Resource”: “arn:IAM:s3:::examplebucket/\${IAM:username}/*”

Answer: B

Explanation:

Reference: <https://IAM.amazon.com/premiumsupport/knowledge-center/iam-s3-user-specific-folder/>

NEW QUESTION 81

- (Exam Topic 1)

A Security Administrator at a university is configuring a fleet of Amazon EC2 instances. The EC2 instances are shared among students, and non-root SSH access is allowed. The Administrator is concerned about students attacking other IAM account resources by using the EC2 instance metadata service.

What can the Administrator do to protect against this potential attack?

- A. Disable the EC2 instance metadata service.
- B. Log all student SSH interactive session activity.
- C. Implement ip tables-based restrictions on the instances.
- D. Install the Amazon Inspector agent on the instances.

Answer: A

Explanation:

"To turn off access to instance metadata on an existing instance....." <https://docs.IAM.amazon.com/IAMEC2/latest/UserGuide/configuring-instance-metadata-service.html> You can disable the service for existing (running or stopped) ec2 instances. <https://docs.IAM.amazon.com/cli/latest/reference/ec2/modify-instance-metadata-options.html>

NEW QUESTION 84

- (Exam Topic 1)

A company's information security team want to do near-real-time anomaly detection on Amazon EC2 performance and usage statistics. Log aggregation is the responsibility of a security engineer. To do the study, the Engineer needs gather logs from all of the company's IAM accounts in a single place.

How should the Security Engineer go about doing this?

- A. Log in to each account four times a day and filter the IAM CloudTrail log data, then copy and paste the logs in to the Amazon S3 bucket in the destination account.
- B. Set up Amazon CloudWatch to stream data to an Amazon S3 bucket in each source account
- C. Set up bucket replication for each source account into a centralized bucket owned by the Security Engineer.
- D. Set up an IAM Config aggregator to collect IAM configuration data from multiple sources.
- E. Set up Amazon CloudWatch cross-account log data sharing with subscriptions in each account
- F. Send the logs to Amazon Kinesis Data Firehose in the Security Engineer's account.

Answer: D

Explanation:

Read the prerequisites in the question carefully. The solution must support "near real time" analysis of the log data. Cloudwatch doesn't stream logs to S3; it supports exporting them to S3 with an up to 12 hour expected delay:

<https://docs.IAM.amazon.com/AmazonCloudWatch/latest/logs/S3Export.html>

"Log data can take up to 12 hours to become available for export. For near real-time analysis of log data, see Analyzing log data with CloudWatch Logs Insights or Real-time processing of log data with subscriptions instead."

<https://docs.IAM.amazon.com/AmazonCloudWatch/latest/logs/Subscriptions.html>

"You can use subscriptions to get access to a real-time feed of log events from CloudWatch Logs and have it delivered to other services such as an Amazon Kinesis stream, an Amazon Kinesis Data Firehose stream, or IAM Lambda for custom processing, analysis, or loading to other systems. When log events are sent to the receiving service, they are Base64 encoded and compressed with the gzip format."

<https://docs.IAM.amazon.com/AmazonCloudWatch/latest/logs/CrossAccountSubscriptions.html>

NEW QUESTION 86

- (Exam Topic 1)

A company has hundreds of IAM accounts, and a centralized Amazon S3 bucket used to collect IAM CloudTrail for all of these accounts. A security engineer wants to create a solution that will enable the company to run ad hoc queries against its CloudTrail logs dating back 3 years from when the trails were first enabled in the company's IAM account.

How should the company accomplish this with the least amount of administrative overhead?

- A. Run an Amazon EMP cluster that uses a MapReduce job to be examine the CloudTrail trails.
- B. Use the events history/feature of the CloudTrail console to query the CloudTrail trails.
- C. Write an IAM Lambda function to query the CloudTrail trails Configure the Lambda function to be executed whenever a new file is created in the CloudTrail S3 bucket.
- D. Create an Amazon Athena table that tools at the S3 bucket the CloudTrail trails are being written to Use Athena to run queries against the trails.

Answer: D

NEW QUESTION 89

- (Exam Topic 1)

A company has the software development teams that are creating applications that store sensitive data in Amazon S3 Each team's data must always be separate. The company's security team must design a data encryption strategy for both teams that provides the ability to audit key usage. The solution must also minimize operational overhead

what should me security team recommend?

- A. Tell the application teams to use two different S3 buckets with separate IAM Key Management Service (IAM KMS) IAM managed CMKs Limit the key process to allow encryption and decryption of the CMKs to their respective teams onl
- B. Force the teams to use encryption context to encrypt and decrypt
- C. Tell the application teams to use two different S3 buckets with a single IAM Key Management Service (IAM KMS) IAM managed CMK Limit the key policy to allow encryption and decryption of the CMK onl
- D. Do not allow the teams to use encryption context to encrypt and decrypt
- E. Tell the application teams to use two different S3 buckets with separate IAM Key Management Service (IAM KMS) customer managed CMKs Limit the key policies to allow encryption and decryption of the CMKs to their respective teams only Force the teams to use encryption context to encrypt and decrypt
- F. Tell the application teams to use two different S3 buckets with a single IAM Key Management Service (IAM KMS) customer managed CMK Limit the key policy to allow encryption and decryption of the CMK only Do not allow the teams to use encryption context to encrypt and decrypt

Answer: A

NEW QUESTION 94

- (Exam Topic 1)

A company is developing a new mobile app for social media sharing. The company's development team has decided to use Amazon S3 to store at media files generated by mobile app users The company wants to allow users to control whether their own tiles are public, private, of shared with other users in their social network what should the development team do to implement the type of access control with the LEAST administrative effort?

- A. Use individual ACLs on each S3 object.
- B. Use IAM groups tor sharing files between application social network users
- C. Store each user's files in a separate S3 bucket and apery a bucket policy based on the user's sharing settings
- D. Generate presigned UPLs for each file access

Answer: A

NEW QUESTION 96

- (Exam Topic 1)

A security engineer has noticed an unusually high amount of traffic coming from a single IP address. This was discovered by analyzing the Application Load Balancer's access logs. How can the security engineer limit the number of requests from a specific IP address without blocking the IP address?

- A. Add a rule to the Application Load Balancer to route the traffic originating from the IP address in question and show a static webpage.
- B. Implement a rate-based rule with IAM WAF
- C. Use IAM Shield to limit the originating traffic hit rate.
- D. Implement the GeoLocation feature in Amazon Route 53.

Answer: C

NEW QUESTION 101

- (Exam Topic 1)

A security engineer must use IAM Key Management Service (IAM KMS) to design a key management solution for a set of Amazon Elastic Block Store (Amazon EBS) volumes that contain sensitive data. The solution needs to ensure that the key material automatically expires in 90 days. Which solution meets these criteria?

- A. A customer managed CMK that uses customer provided key material
- B. A customer managed CMK that uses IAM provided key material
- C. An IAM managed CMK
- D. Operating system-native encryption that uses GnuPG

Answer: B

NEW QUESTION 104

- (Exam Topic 1)

A convoys data lake uses Amazon S3 and Amazon Athena. The company's security engineer has been asked to design an encryption solution that meets the company's data protection requirements. The encryption solution must work with Amazon S3 and keys managed by the company. The encryption solution must be protected in a hardware security module that is validated id Federal information Processing Standards (FPS) 140-2 Level 3. Which solution meets these requirements?

- A. Use client-side encryption with an IAM KMS customer-managed key implemented with the IAM Encryption SDK
- B. Use IAM CloudHSM to store the keys and perform cryptographic operations Save the encrypted text in Amazon S3
- C. Use an IAM KMS customer-managed key that is backed by a custom key store using IAM CloudHSM
- D. Use an IAM KMS customer-managed key with the bring your own key (BYOK) feature to import a key stored in IAM CloudHSM

Answer: B

NEW QUESTION 105

- (Exam Topic 1)

A Developer signed in to a new account within an IAM Organizations organizations unit (OU) containing multiple accounts. Access to the Amazon S3 service is restricted with the following SCP:

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Deny",
      "Action": "s3:*",
      "Resource": "*"
    }
  ]
}
```

How can the Security Engineer provide the Developer with Amazon S3 access without affecting other accounts?

- A. Move the SCP to the root OU of Organizations to remove the restriction to access Amazon S3.
- B. Add an IAM policy for the Developer, which grants S3 access.
- C. Create a new OU without applying the SCP restricting S3 access.
- D. Move the Developer account to this new OU.
- E. Add an allow list for the Developer account for the S3 service.

Answer: C

NEW QUESTION 109

- (Exam Topic 1)

A company has a VPC with an IPv6 address range and a public subnet with an IPv6 address block. The VPC currently hosts some public Amazon EC2 instances but a Security Engineer needs to migrate a second application into the VPC that also requires IPv6 connectivity.

This new application will occasionally make API requests to an external, internet-accessible endpoint to receive updates. However, the Security team does not want the application's EC2 instance exposed directly to the internet. The Security Engineer intends to create a private subnet with a custom route table and to associate the route table with the private subnet.

What else does the Security Engineer need to do to ensure the application will not be exposed directly to the internet, but can still communicate as required?

- A. Launch a NAT instance in the public subnet. Update the custom route table with a new route to the NAT instance.
- B. Remove the internet gateway, and add IAM PrivateLink to the VPC. Then update the custom route table with a new route to IAM PrivateLink.
- C. Add a managed NAT gateway to the VPC. Update the custom route table with a new route to the gateway.
- D. Add an egress-only internet gateway to the VPC.
- E. Update the custom route table with a new route to the gateway.

Answer: D

NEW QUESTION 113

- (Exam Topic 1)

A company is using IAM Organizations to manage multiple IAM member accounts. All of these accounts have Amazon GuardDuty enabled in all Regions. The company's IAM Security Operations Center has a centralized security account for logging and monitoring. One of the member accounts has received an excessively high bill. A security engineer discovers that a compromised Amazon EC2 instance is being used to mine crypto currency. The Security Operations Center did not receive a GuardDuty finding in the central security account.

but there was a GuardDuty finding in the account containing the compromised EC2 instance. The security engineer needs to ensure a GuardDuty finding is available in the security account.

What should the security engineer do to resolve this issue?

- A. Set up an Amazon CloudWatch Event rule to forward all GuardDuty findings to the security account. Use an IAM Lambda function as a target to raise findings.
- B. Set up an Amazon CloudWatch Events rule to forward all GuardDuty findings to the security account. Use an IAM Lambda function as a target to raise findings in IAM Security Hub.
- C. Check that GuardDuty in the security account is able to assume a role in the compromised account using the GuardDuty fast findings permission. Schedule an Amazon CloudWatch Events rule and an IAM Lambda function to periodically check for GuardDuty findings.
- D. Use the IAM GuardDuty get-members IAM CLI command in the security account to see if the account is listed. Send an invitation from GuardDuty in the security account to GuardDuty in the compromised account. Accept the invitation to forward all future GuardDuty findings.

Answer: D

NEW QUESTION 118

- (Exam Topic 1)

A Solutions Architect is designing a web application that uses Amazon CloudFront, an Elastic Load Balancing Application Load Balancer, and an Auto Scaling group of Amazon EC2 instances. The load balancer and EC2 instances are in the US West (Oregon) region. It has been decided that encryption in transit is necessary by using a customer-branded domain name from the client to CloudFront and from CloudFront to the load balancer.

Assuming that IAM Certificate Manager is used, how many certificates will need to be generated?

- A. One in the US West (Oregon) region and one in the US East (Virginia) region.
- B. Two in the US West (Oregon) region and none in the US East (Virginia) region.
- C. One in the US West (Oregon) region and none in the US East (Virginia) region.
- D. Two in the US East (Virginia) region and none in the US West (Oregon) region.

Answer: A

Explanation:

Why? If you want to require HTTPS between viewers and CloudFront, you must change the IAM Region to US East (N. Virginia) in the IAM Certificate Manager console before you request or import a certificate. If you want to require HTTPS between CloudFront and your origin, and you're using an ELB load balancer as your origin, you can request or import a certificate in any Region.

<https://docs.IAM.amazon.com/AmazonCloudFront/latest/DeveloperGuide/cnames-and-https-requirements.html>

NEW QUESTION 123

- (Exam Topic 1)

A company's security information events management (SIEM) tool receives new IAM CloudTrail logs from an Amazon S3 bucket that is configured to send all object created event notification to an Amazon SNS topic. An Amazon SQS queue is subscribed to this SNS topic. The company's SEM tool then ports this SQS queue for new messages using an IAM role and fetches new log events from the S3 bucket based on the SQS messages.

After a recent security review that resulted in restricted permissions, the SEM tool has stopped receiving new CloudTrail logs.

Which of the following are possible causes of this issue? (Select THREE)

- A. The SQS queue does not allow the SQS SendMessage action from the SNS topic
- B. The SNS topic does not allow the SNS Publish action from Amazon S3
- C. The SNS topic is not delivering raw messages to the SQS queue
- D. The S3 bucket policy does not allow CloudTrail to perform the PutObject action
- E. The IAM role used by the SEM tool does not have permission to subscribe to the SNS topic
- F. The IAM role used by the SEM tool does not allow the SQS DeleteMessage action.

Answer: ADF

NEW QUESTION 128

- (Exam Topic 1)

A company has decided to use encryption in its IAM account to secure the objects in Amazon S3 using server-side encryption. Object sizes range from 16,000 B to 5 MB. The requirements are as follows:

- The key material must be generated and stored in a certified Federal Information Processing Standard (FIPS) 140-2 Level 3 machine.
- The key material must be available in multiple Regions. Which option meets these requirements?

- A. Use an IAM KMS customer managed key and store the key material in IAM with replication across Regions
- B. Use an IAM customer managed key, import the key material into IAM KMS using in-house IAM CloudHSM
- C. and store the key material securely in Amazon S3.
- D. Use an IAM KMS custom key store backed by IAM CloudHSM clusters, and copy backups across Regions
- E. Use IAM CloudHSM to generate the key material and backup keys across Regions. Use the Java Cryptography Extension (JCE) and Public Key Cryptography Standards #11 (PKCS #11) encryption libraries to encrypt and decrypt the data.

Answer: D

NEW QUESTION 131

- (Exam Topic 1)

An application developer is using an IAM Lambda function that must use IAM KMS to perform encrypt and decrypt operations for API keys that are less than 2 KB. Which key policy would allow the application to do this while granting least privilege?

- A.

```
{
  "Sid": "AllowUseOfTheKey",
  "Effect": "Allow",
  "Principal": {"AWS": "arn:aws:iam::444455556666:role/EncryptionApp"},
  "Action": [
    "kms:*"
  ],
  "Resource": "*"
}
```
- B.

```
{
  "Sid": "AllowUseOfTheKey",
  "Effect": "Allow",
  "Principal": {"AWS": "arn:aws:iam::444455556666:role/EncryptionApp"},
  "Action": [
    "kms:Encrypt",
    "kms:Decrypt"
  ],
  "Resource": "*"
}
```
- C.

```
{
  "Sid": "AllowUseOfTheKey",
  "Effect": "Allow",
  "Principal": {"AWS": "arn:aws:iam::444455556666:role/EncryptionApp"},
  "Action": [
    "kms:DescribeKey",
    "kms:GenerateDataKey*",
    "kms:Encrypt",
    "kms:ReEncrypt*",
    "kms:Decrypt"
  ],
  "Resource": "*"
}
```
- D.

```
{
  "Sid": "AllowUseOfTheKey",
  "Effect": "Allow",
  "Principal": {"AWS": "arn:aws:iam::444455556666:role/EncryptionApp"},
  "Action": [
    "kms:DescribeKey",
    "kms:GenerateDataKey*",
    "kms:Encrypt",
    "kms:ReEncrypt*",
    "kms:Disable*",
    "kms:Decrypt"
  ],
  "Resource": "*"
}
```

- A. Option A
- B. Option B
- C. Option C

D. Option D

Answer: C

NEW QUESTION 133

- (Exam Topic 1)

A Security Engineer is setting up a new IAM account. The Engineer has been asked to continuously monitor the company's IAM account using automated compliance checks based on IAM best practices and Center for Internet Security (CIS) IAM Foundations Benchmarks. How can the Security Engineer accomplish this using IAM services?

- A. Enable IAM Config and set it to record all resources in all Regions and global resource
- B. Then enable IAM Security Hub and confirm that the CIS IAM Foundations compliance standard is enabled
- C. Enable Amazon Inspector and configure it to scan all Regions for the CIS IAM Foundations Benchmark
- D. Then enable IAM Security Hub and configure it to ingest the Amazon Inspector findings
- E. Enable Amazon Inspector and configure it to scan all Regions for the CIS IAM Foundations Benchmark
- F. Then enable IAM Shield in all Regions to protect the account from DDoS attacks.
- G. Enable IAM Config and set it to record all resources in all Regions and global resources. Then enable Amazon Inspector and configure it to enforce CIS IAM Foundations Benchmarks using IAM Config rules.

Answer: A

Explanation:

<https://docs.IAM.amazon.com/securityhub/latest/userguide/securityhub-standards-cis-config-resources.html>

NEW QUESTION 138

- (Exam Topic 1)

A financial institution has the following security requirements:

- > Cloud-based users must be contained in a separate authentication domain.
- > Cloud-based users cannot access on-premises systems.

As part of standing up a cloud environment, the financial institution is creating a number of Amazon managed databases and Amazon EC2 instances. An Active Directory service exists on-premises that has all the administrator accounts, and these must be able to access the databases and instances.

How would the organization manage its resources in the MOST secure manner? (Choose two.)

- A. Configure an IAM Managed Microsoft AD to manage the cloud resources.
- B. Configure an additional on-premises Active Directory service to manage the cloud resources.
- C. Establish a one-way trust relationship from the existing Active Directory to the new Active Directory service.
- D. Establish a one-way trust relationship from the new Active Directory to the existing Active Directory service.
- E. Establish a two-way trust between the new and existing Active Directory services.

Answer: AD

Explanation:

Deploy a new forest/domain on IAM with one-way trust. If you are planning on leveraging credentials from an on-premises AD on IAM member servers, you must establish at least a one-way trust to the Active Directory running on IAM. In this model, the IAM domain becomes the resource domain where computer objects are located and on-premises domain becomes the account domain. Ref: <https://d1.IAMstatic.com/whitepapers/adds-on-IAM.pdf>
https://docs.IAM.amazon.com/directoryservice/latest/admin-guide/directory_microsoft_ad.html

NEW QUESTION 141

- (Exam Topic 1)

A security engineer is auditing a production system and discovers several additional IAM roles that are not required and were not previously documented during the last audit 90 days ago. The engineer is trying to find out who created these IAM roles and when they were created. The solution must have the lowest operational overhead.

Which solution will meet this requirement?

- A. Import IAM CloudTrail logs from Amazon S3 into an Amazon Elasticsearch Service cluster, and search through the combined logs for CreateRole events.
- B. Create a table in Amazon Athena for IAM CloudTrail event
- C. Query the table in Amazon Athena for CreateRole events.
- D. Use IAM Config to look up the configuration timeline for the additional IAM roles and view the linked IAM CloudTrail event.
- E. Download the credentials report from the IAM console to view the details for each IAM entity, including the creation dates.

Answer: A

NEW QUESTION 145

- (Exam Topic 2)

An application running on EC2 instances must use a username and password to access a database. The developer has stored those secrets in the SSM Parameter Store with type SecureString using the default KMS CMK. Which combination of configuration steps will allow the application to access the secrets via the API? Select 2 answers from the options below.

Please select:

- A. Add the EC2 instance role as a trusted service to the SSM service role.
- B. Add permission to use the KMS key to decrypt to the SSM service role.
- C. Add permission to read the SSM parameter to the EC2 instance role
- D. .
- E. Add permission to use the KMS key to decrypt to the EC2 instance role
- F. Add the SSM service role as a trusted service to the EC2 instance role.

Answer: CD

Explanation:

The below example policy from the IAM Documentation is required to be given to the EC2 Instance in order to read a secure string from IAM KMS. Permissions need to be given to the Get Parameter API and the KMS API call to decrypt the secret.

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

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": [
        "ssm:GetParameter*"
      ],
      "Resource": "arn:aws:ssm:us-west-2:111122223333:parameter/ReadableParameters/*"
    },
    {
      "Effect": "Allow",
      "Action": [
        "kms:Decrypt"
      ],
      "Resource": "arn:aws:kms:us-west-2:111122223333:key/1234abcd-12ab-34cd-56ef-1234567890ab"
    }
  ]
}
```

Option A is invalid because roles can be attached to EC2 and not EC2 roles to SSM Option B is invalid because the KMS key does not need to decrypt the SSM service role.

Option E is invalid because this configuration is valid For more information on the parameter store, please visit the below URL:

<https://docs.IAM.amazon.com/kms/latest/developerguide/services-parameter-store.html>

The correct answers are: Add permission to read the SSM parameter to the EC2 instance role., Add permission to use the KMS key to decrypt to the EC2 instance role

Submit your Feedback/Queries to our Experts

NEW QUESTION 150

- (Exam Topic 2)

During a recent internal investigation, it was discovered that all API logging was disabled in a production account, and the root user had created new API keys that appear to have been used several times.

What could have been done to detect and automatically remediate the incident?

- A. Using Amazon Inspector, review all of the API calls and configure the inspector agent to leverage SNS topics to notify security of the change to IAM CloudTrail, and revoke the new API keys for the root user.
- B. Using IAM Config, create a config rule that detects when IAM CloudTrail is disabled, as well as any calls to the root user create-api-key
- C. Then use a Lambda function to re-enable CloudTrail logs and deactivate the root API keys.
- D. Using Amazon CloudWatch, create a CloudWatch event that detects IAM CloudTrail deactivation and a separate Amazon Trusted Advisor check to automatically detect the creation of root API key
- E. Then use a Lambda function to enable IAM CloudTrail and deactivate the root API keys.
- F. Using Amazon CloudTrail, create a new CloudTrail event that detects the deactivation of CloudTrail logs, and a separate CloudTrail event that detects the creation of root API key
- G. Then use a Lambda function to enable CloudTrail and deactivate the root API keys.

Answer: B

Explanation:

<https://docs.IAM.amazon.com/config/latest/developerguide/cloudtrail-enabled.html> <https://docs.IAM.amazon.com/config/latest/developerguide/iam-root-access-key-check.html>

NEW QUESTION 152

- (Exam Topic 2)

You have an instance setup in a test environment in IAM. You installed the required application and the promoted the server to a production environment. Your IT Security team has advised that there maybe traffic flowing in from an unknown IP address to port 22. How can this be mitigated immediately?

Please select:

- A. Shutdown the instance
- B. Remove the rule for incoming traffic on port 22 for the Security Group
- C. Change the AMI for the instance
- D. Change the Instance type for the instance

Answer: B

Explanation:

In the test environment the security groups might have been opened to all IP addresses for testing purpose. Always to ensure to remove this rule once all testing is completed.

Option A, C and D are all invalid because this would affect the application running on the server. The easiest way is just to remove the rule for access on port 22.

For more information on authorizing access to an instance, please visit the below URL: <https://docs.IAM.amazon.com/IAMEC2/latest/UserGuide/authorizing->

access-to-an-instance.html

The correct answer is: Remove the rule for incoming traffic on port 22 for the Security Group Submit your Feedback/Queries to our Experts

NEW QUESTION 153

- (Exam Topic 2)

Example.com hosts its internal document repository on Amazon EC2 instances. The application runs on EC2 instances and previously stored the documents on encrypted Amazon EBS volumes. To optimize the application for scale, example.com has moved the files to Amazon S3. The security team has mandated that all the files are securely deleted from the EBS volume, and it must certify that the data is unreadable before releasing the underlying disks.

Which of the following methods will ensure that the data is unreadable by anyone else?

- A. Change the volume encryption on the EBS volume to use a different encryption mechanism.
- B. Then, release the EBS volumes back to IAM.
- C. Release the volumes back to IA
- D. IAM immediately wipes the disk after it is deprovisioned.
- E. Delete the encryption key used to encrypt the EBS volume
- F. Then, release the EBS volumes back to IAM.
- G. Delete the data by using the operating system delete command
- H. Run Quick Format on the drive and then release the EBS volumes back to IAM.

Answer: D

Explanation:

Amazon EBS volumes are presented to you as raw unformatted block devices that have been wiped prior to being made available for use. Wiping occurs immediately before reuse so that you can be assured that the wipe process completed. If you have procedures requiring that all data be wiped via a specific method, such as those detailed in NIST 800-88 ("Guidelines for Media Sanitization"), you have the ability to do so on Amazon EBS. You should conduct a specialized wipe procedure prior to deleting the volume for compliance with your established requirements.

<https://d0.IAMstatic.com/whitepapers/IAM-security-whitepaper.pdf>

NEW QUESTION 154

- (Exam Topic 2)

A company has Windows Amazon EC2 instances in a VPC that are joined to on-premises Active Directory servers for domain services. The security team has enabled Amazon GuardDuty on the IAM account to alert on issues with the instances.

During a weekly audit of network traffic, the Security Engineer notices that one of the EC2 instances is attempting to communicate with a known command-and-control server but failing. This alert does not show up in GuardDuty.

Why did GuardDuty fail to alert to this behavior?

- A. GuardDuty did not have the appropriate alerts activated.
- B. GuardDuty does not see these DNS requests.
- C. GuardDuty only monitors active network traffic flow for command-and-control activity.
- D. GuardDuty does not report on command-and-control activity.

Answer: B

Explanation:

https://docs.IAM.amazon.com/guardduty/latest/ug/guardduty_data-sources.html https://docs.IAM.amazon.com/guardduty/latest/ug/guardduty_backdoor.html

NEW QUESTION 156

- (Exam Topic 2)

A security team must present a daily briefing to the CISO that includes a report of which of the company's thousands of EC2 instances and on-premises servers are missing the latest security patches. All instances/servers must be brought into compliance within 24 hours so they do not show up on the next day's report.

How can the security team fulfill these requirements?

Please select:

- A. Use Amazon QuickSight and Cloud Trail to generate the report of out of compliance instances/servers. Redeploy all out of compliance instances/servers using an AMI with the latest patches.
- B. Use Systems Manager Patch Manager to generate the report of out of compliance instances/ server
- C. Use Systems Manager Patch Manager to install the missing patches.
- D. Use Systems Manager Patch Manager to generate the report of out of compliance instances/ servers. Redeploy all out of1 compliance instances/servers using an AMI with the latest patches.
- E. Use Trusted Advisor to generate the report of out of compliance instances/server
- F. Use Systems Manager Patch Manager to install the missing patches.

Answer: B

Explanation:

Use the Systems Manager Patch Manager to generate the report and also install the missing patches The IAM Documentation mentions the following

IAM Systems Manager Patch Manager automates the process of patching managed instances with

security-related updates. For Linux-based instances, you can also install patches for non-security updates. You can patch fleets of Amazon EC2 instances or your on-premises servers and virtual machines (VMs) by operating system type. This includes supported versions of Windows, Ubuntu Server, Red Hat Enterprise Linux (RHEL), SUSE Linux Enterprise Server (SLES), and Amazon Linux. You can scan instances to see only a report of missing patches, or you can scan and automatically install all missing patches.

Option A is invalid because Amazon QuickSight and Cloud Trail cannot be used to generate the list of servers that don't meet compliance needs.

Option C is wrong because deploying instances via new AMI'S would impact the applications hosted on these servers

Option D is invalid because Amazon Trusted Advisor cannot be used to generate the list of servers that don't meet compliance needs.

For more information on the IAM Patch Manager, please visit the below URL: <https://docs.IAM.amazon.com/systems-manager/latest/userguide/systems-manager-patch.html> (

The correct answer is: Use Systems Manager Patch Manager to generate the report of out of compliance instances/ servers. Use Systems Manager Patch Manager to install the missing patches.

Submit your Feedback/Queries to our Experts

NEW QUESTION 158

- (Exam Topic 2)

An organization operates a web application that serves users globally. The application runs on Amazon EC2 instances behind an Application Load Balancer. There is an Amazon CloudFront distribution in front of the load balancer, and the organization uses IAM WAF. The application is currently experiencing a volumetric attack whereby the attacker is exploiting a bug in a popular mobile game.

The application is being flooded with HTTP requests from all over the world with the User-Agent set to the following string: Mozilla/5.0 (compatible; ExampleCorp; ExampleGame/1.22; Mobile/1.0)

What mitigation can be applied to block attacks resulting from this bug while continuing to service legitimate requests?

- A. Create a rule in IAM WAF rules with conditions that block requests based on the presence of ExampleGame/1.22 in the User-Agent header
- B. Create a geographic restriction on the CloudFront distribution to prevent access to the application from most geographic regions
- C. Create a rate-based rule in IAM WAF to limit the total number of requests that the web application services.
- D. Create an IP-based blacklist in IAM WAF to block the IP addresses that are originating from requests that contain ExampleGame/1.22 in the User-Agent header.

Answer: A

Explanation:

Since all the attack has http header- User-Agent set to string: Mozilla/5.0 (compatible; ExampleCorp;) it would be much more easier to block these attack by simply denying traffic with the header match . HTH ExampleGame/1.22; Mobile/1.0)

NEW QUESTION 162

- (Exam Topic 2)

A Security Administrator is restricting the capabilities of company root user accounts. The company uses IAM Organizations and has enabled it for all feature sets, including consolidated billing. The top-level account is used for billing and administrative purposes, not for operational IAM resource purposes.

How can the Administrator restrict usage of member root user accounts across the organization?

- A. Disable the use of the root user account at the organizational roo
- B. Enable multi-factor authentication of the root user account for each organizational member account.
- C. Configure IAM user policies to restrict root account capabilities for each Organizations member account.
- D. Create an organizational unit (OU) in Organizations with a service control policy that controls usage of the root use
- E. Add all operational accounts to the new OU.
- F. Configure IAM CloudTrail to integrate with Amazon CloudWatch Logs and then create a metric filter for RootAccountUsage.

Answer: C

Explanation:

Applying a "Control Policy" in your organization. A policy applied to: 1) root applies to all accounts in the organization 2) OU applies to all accounts in the OU and to any child OUs 3) account applies to one account only Note- this requires that Acquirements: -all features are enabled for the organization in IAM Organizations -Only service control policy (SCP) are supported

https://docs.IAM.amazon.com/organizations/latest/userguide/orgs_manage_policies.html

NEW QUESTION 164

- (Exam Topic 2)

A Security Engineer is working with a Product team building a web application on IAM. The application uses Amazon S3 to host the static content, Amazon API Gateway to provide RESTful services; and Amazon DynamoDB as the backend data store. The users already exist in a directory that is exposed through a SAML identity provider.

Which combination of the following actions should the Engineer take to enable users to be authenticated into the web application and call APIs? (Choose three.)

- A. Create a custom authorization service using IAM Lambda.
- B. Configure a SAML identity provider in Amazon Cognito to map attributes to the Amazon Cognito user pool attributes.
- C. Configure the SAML identity provider to add the Amazon Cognito user pool as a relying party.
- D. Configure an Amazon Cognito identity pool to integrate with social login providers.
- E. Update DynamoDB to store the user email addresses and passwords.
- F. Update API Gateway to use a COGNITO_USER_POOLS authorizer.

Answer: BDE

NEW QUESTION 166

- (Exam Topic 2)

A Software Engineer is trying to figure out why network connectivity to an Amazon EC2 instance does not appear to be working correctly. Its security group allows inbound HTTP traffic from 0.0.0.0/0, and the outbound rules have not been modified from the default. A custom network ACL associated with its subnet allows inbound HTTP traffic from 0.0.0.0/0 and has no outbound rules.

What would resolve the connectivity issue?

- A. The outbound rules on the security group do not allow the response to be sent to the client on the ephemeral port range.
- B. The outbound rules on the security group do not allow the response to be sent to the client on the HTTP port.
- C. An outbound rule must be added to the network ACL to allow the response to be sent to the client on the ephemeral port range.
- D. An outbound rule must be added to the network ACL to allow the response to be sent to the client on the HTTP port.

Answer: C

Explanation:

<https://docs.IAM.amazon.com/vpc/latest/userguide/vpc-network-acls.html>

NEW QUESTION 171

- (Exam Topic 2)

A company plans to move most of its IT infrastructure to IAM. They want to leverage their existing on-premises Active Directory as an identity provider for IAM.

Which combination of steps should a Security Engineer take to federate the company's on-premises Active Directory with IAM? (Choose two.)

- A. Create IAM roles with permissions corresponding to each Active Directory group.
- B. Create IAM groups with permissions corresponding to each Active Directory group.
- C. Configure Amazon Cloud Directory to support a SAML provider.
- D. Configure Active Directory to add relying party trust between Active Directory and IAM.
- E. Configure Amazon Cognito to add relying party trust between Active Directory and IAM.

Answer: AD

Explanation:

<https://IAM.amazon.com/blogs/security/how-to-establish-federated-access-to-your-IAM-resources-by-using-acti>

NEW QUESTION 176

- (Exam Topic 2)

A Security Engineer is defining the logging solution for a newly developed product. Systems Administrators and Developers need to have appropriate access to event log files in IAM CloudTrail to support and troubleshoot the product.

Which combination of controls should be used to protect against tampering with and unauthorized access to log files? (Choose two.)

- A. Ensure that the log file integrity validation mechanism is enabled.
- B. Ensure that all log files are written to at least two separate Amazon S3 buckets in the same account.
- C. Ensure that Systems Administrators and Developers can edit log files, but prevent any other access.
- D. Ensure that Systems Administrators and Developers with job-related need-to-know requirements only are capable of viewing—but not modifying—the log files.
- E. Ensure that all log files are stored on Amazon EC2 instances that allow SSH access from the internal corporate network only.

Answer: AD

NEW QUESTION 178

- (Exam Topic 2)

A company has multiple VPCs in their account that are peered, as shown in the diagram. A Security Engineer wants to perform penetration tests of the Amazon EC2 instances in all three VPCs.

How can this be accomplished? (Choose two.)



- A. Deploy a pre-authorized scanning engine from the IAM Marketplace into VPC B, and use it to scan instances in all three VPC
- B. Do not complete the penetration test request form.
- C. Deploy a pre-authorized scanning engine from the Marketplace into each VPC, and scan instances in each VPC from the scanning engine in that VP
- D. Do not complete the penetration test request form.
- E. Create a VPN connection from the data center to VPC
- F. Use an on-premises scanning engine to scan the instances in all three VPC
- G. Complete the penetration test request form for all three VPCs.
- H. Create a VPN connection from the data center to each of the three VPC
- I. Use an on-premises scanning engine to scan the instances in each VP
- J. Do not complete the penetration test request form.
- K. Create a VPN connection from the data center to each of the three VPC
- L. Use an on-premises scanning engine to scan the instances in each VP
- M. Complete the penetration test request form for all three VPCs.

Answer: BD

Explanation:

<https://IAM.amazon.com/security/penetration-testing/>

NEW QUESTION 181

- (Exam Topic 2)

An IAM user with full EC2 permissions could not start an Amazon EC2 instance after it was stopped for a maintenance task. Upon starting the instance, the instance state would change to "Pending", but after a few seconds, it would switch back to "Stopped".

An inspection revealed that the instance has attached Amazon EBS volumes that were encrypted by using a Customer Master Key (CMK). When these encrypted volumes were detached, the IAM user was able to start the EC2 instances.

The IAM user policy is as follows:

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": [
        <Action>
      ],
      "Resource": [
        "arn:aws:kms:us-east-1:012345678910:key/ebs-encryption-key"
      ]
    }
  ]
}
```

What additional items need to be added to the IAM user policy? (Choose two.)

- A. kms:GenerateDataKey
- B. kms:Decrypt
- C. kms:CreateGrant
- D. "Condition": {"Bool": {"kms:ViaService": "ec2.us-west-2.amazonaws.com"}}
- E. "Condition": {"Bool": {"kms:GrantIsForIAMResource": true}}

Answer: CE

Explanation:

The EBS which is IAM resource service is encrypted with CMK and to allow EC2 to decrypt, the IAM user should create a grant (action) and a boolean condition for the IAM resource. This link explains how IAM keys work: <https://docs.IAM.amazonaws.com/kms/latest/developerguide/key-policies.html>

NEW QUESTION 182

- (Exam Topic 2)

A company wants to have a secure way of generating, storing and managing cryptographic exclusive access for the keys. Which of the following can be used for this purpose?

Please select:

- A. Use KMS and the normal KMS encryption keys
- B. Use KMS and use an external key material
- C. Use S3 Server Side encryption
- D. Use Cloud HSM

Answer: D

Explanation:

The IAM Documentation mentions the following

The IAM CloudHSM service helps you meet corporate, contractual and regulatory compliance requirements for data security by using dedicated Hardware Security Module (HSM) instances within the IAM cloud. IAM and IAM Marketplace partners offer a variety of solutions for protecting sensitive data within the IAM platform, but for some applications and data subject to contractual or regulatory mandates for managing cryptographic keys, additional protection may be necessary.

CloudHSM complements existing data protection solutions and allows you to protect your encryption keys within HSMs that are designed and validated to government standards for secure key management. CloudHSM allows you to securely generate, store and manage cryptographic keys used for data encryption in a way that keys are accessible only by you.

Option A, B and C are invalid because in all of these cases, the management of the key will be with IAM. Here the question specifically mentions that you want to have exclusive access over the keys. This can be achieved with Cloud HSM

For more information on CloudHSM, please visit the following URL: <https://IAM.amazonaws.com/cloudhsm/faq>:

The correct answer is: Use Cloud HSM Submit your Feedback/Queries to our Experts

NEW QUESTION 184

- (Exam Topic 2)

Some highly sensitive analytics workloads are to be moved to Amazon EC2 hosts. Threat modeling has found that a risk exists where a subnet could be maliciously or accidentally exposed to the Internet.

Which of the following mitigations should be recommended?

- A. Use IAM Config to detect whether an Internet Gateway is added and use an IAM Lambda function to provide auto-remediation.
- B. Within the Amazon VPC configuration, mark the VPC as private and disable Elastic IP addresses.
- C. Use IPv6 addressing exclusively on the EC2 hosts, as this prevents the hosts from being accessed from the Internet.
- D. Move the workload to a Dedicated Host, as this provides additional network security controls and monitoring

Answer: A

Explanation:

By default, Private instance has a private IP address, but no public IP address. These instances can communicate with each other, but can't access the Internet. You can enable Internet access for an instance launched into a nondefault subnet by attaching an Internet gateway to its VPC (if its VPC is not a default VPC) and associating an Elastic IP address with the instance. Alternatively, to allow an instance in your VPC to initiate outbound connections to the Internet but prevent unsolicited inbound connections from the Internet, you can use a network address translation (NAT) instance. NAT maps multiple private IP addresses to a single public IP address. A NAT instance has an Elastic IP address and is connected to the Internet through an Internet gateway. You can connect an instance in a private subnet to the Internet through the NAT instance, which routes traffic from the instance to the Internet gateway, and routes any responses to the instance.

NEW QUESTION 186

- (Exam Topic 2)

An organization has tens of applications deployed on thousands of Amazon EC2 instances. During testing, the Application team needs information to let them know whether the network access control lists (network ACLs) and security groups are working as expected.

How can the Application team's requirements be met?

- A. Turn on VPC Flow Logs, send the logs to Amazon S3, and use Amazon Athena to query the logs.
- B. Install an Amazon Inspector agent on each EC2 instance, send the logs to Amazon S3, and use Amazon EMR to query the logs.
- C. Create an IAM Config rule for each network ACL and security group configuration, send the logs to Amazon S3, and use Amazon Athena to query the logs.
- D. Turn on IAM CloudTrail, send the trails to Amazon S3, and use IAM Lambda to query the trails.

Answer: A

NEW QUESTION 188

- (Exam Topic 2)

The Accounting department at Example Corp. has made a decision to hire a third-party firm, AnyCompany, to monitor Example Corp.'s IAM account to help optimize costs.

The Security Engineer for Example Corp. has been tasked with providing AnyCompany with access to the required Example Corp. IAM resources. The Engineer has created an IAM role and granted permission to AnyCompany's IAM account to assume this role.

When customers contact AnyCompany, they provide their role ARN for validation. The Engineer is concerned that one of AnyCompany's other customers might deduce Example Corp.'s role ARN and potentially compromise the company's account.

What steps should the Engineer perform to prevent this outcome?

- A. Create an IAM user and generate a set of long-term credential
- B. Provide the credentials to AnyCompany. Monitor access in IAM access advisor and plan to rotate credentials on a recurring basis.
- C. Request an external ID from AnyCompany and add a condition with sts:ExternalId to the role's trust policy.
- D. Require two-factor authentication by adding a condition to the role's trust policy with IAM:MultiFactorAuthPresent.
- E. Request an IP range from AnyCompany and add a condition with IAM:SourceIp to the role's trust policy.

Answer: B

NEW QUESTION 193

- (Exam Topic 2)

A Security Engineer has been asked to create an automated process to disable IAM user access keys that are more than three months old.

Which of the following options should the Security Engineer use?

- A. In the IAM Console, choose the IAM service and select "Users". Review the "Access Key Age" column.
- B. Define an IAM policy that denies access if the key age is more than three months and apply to all users.
- C. Write a script that uses the GenerateCredentialReport, GetCredentialReport, and UpdateAccessKey APIs.
- D. Create an Amazon CloudWatch alarm to detect aged access keys and use an IAM Lambda function to disable the keys older than 90 days.

Answer: C

Explanation:

https://docs.IAM.amazon.com/IAM/latest/APIReference/API_UpdateAccessKey.html

https://docs.IAM.amazon.com/IAM/latest/APIReference/API_GenerateCredentialReport.html

https://docs.IAM.amazon.com/IAM/latest/APIReference/API_GetCredentialReport.html

NEW QUESTION 195

- (Exam Topic 2)

A company uses IAM Organization to manage 50 IAM accounts. The finance staff members log in as IAM IAM users in the FinanceDept IAM account. The staff members need to read the consolidated billing information in the MasterPayer IAM account. They should not be able to view any other resources in the MasterPayer IAM account. IAM access to billing has been enabled in the MasterPayer account.

Which of the following approaches grants the finance staff the permissions they require without granting any unnecessary permissions?

- A. Create an IAM group for the finance users in the FinanceDept account, then attach the IAM managed ReadOnlyAccess IAM policy to the group.
- B. Create an IAM group for the finance users in the MasterPayer account, then attach the IAM managed ReadOnlyAccess IAM policy to the group.
- C. Create an IAM IAM role in the FinanceDept account with the ViewBilling permission, then grant the finance users in the MasterPayer account the permission to assume that role.
- D. Create an IAM IAM role in the MasterPayer account with the ViewBilling permission, then grant the finance users in the FinanceDept account the permission to assume that role.

Answer: D

Explanation:

IAM Region that You Request a Certificate In (for IAM Certificate Manager) If you want to require HTTPS between viewers and CloudFront, you must change the IAM region to US East (N. Virginia) in the IAM Certificate Manager console before you request or import a certificate. If you want to require HTTPS between CloudFront and your origin, and you're using an ELB load balancer as your origin, you can request or import a certificate in any region.

<https://docs.IAM.amazon.com/AmazonCloudFront/latest/DeveloperGuide/cnames-and-https-requirements.html>

NEW QUESTION 198

- (Exam Topic 2)

A Security Engineer is implementing a solution to allow users to seamlessly encrypt Amazon S3 objects without having to touch the keys directly. The solution must be highly scalable without requiring continual management. Additionally, the organization must be able to immediately delete the encryption keys.

Which solution meets these requirements?

- A. Use IAM KMS with IAM managed keys and the ScheduleKeyDeletion API with a PendingWindowInDays set to 0 to remove the keys if necessary.
- B. Use KMS with IAM imported key material and then use the DeleteImportedKeyMaterial API to remove the key material if necessary.
- C. Use IAM CloudHSM to store the keys and then use the CloudHSM API or the PKCS11 library to delete the keys if necessary.
- D. Use the Systems Manager Parameter Store to store the keys and then use the service API operations to delete the key if necessary.

Answer: B

Explanation:

<https://docs.IAM.amazon.com/kms/latest/developerguide/importing-keys-delete-key-material.html>

NEW QUESTION 199

- (Exam Topic 2)

An Amazon EC2 instance is denied access to a newly created IAM KMS CMK used for decrypt actions. The environment has the following configuration:

- The instance is allowed the kms:Decrypt action in its IAM role for all resources
 - The IAM KMS CMK status is set to enabled
 - The instance can communicate with the KMS API using a configured VPC endpoint
- What is causing the issue?

- A. The kms:GenerateDataKey permission is missing from the EC2 instance's IAM role
- B. The ARN tag on the CMK contains the EC2 instance's ID instead of the instance's ARN
- C. The kms:Encrypt permission is missing from the EC2 IAM role
- D. The KMS CMK key policy that enables IAM user permissions is missing

Answer: D

Explanation:

In a key policy, you use "*" for the resource, which means "this CMK." A key policy applies only to the CMK it is attached to

NEW QUESTION 203

- (Exam Topic 2)

Which of the following minimizes the potential attack surface for applications?

- A. Use security groups to provide stateful firewalls for Amazon EC2 instances at the hypervisor level.
- B. Use network ACLs to provide stateful firewalls at the VPC level to prevent access to any specific IAM resource.
- C. Use IAM Direct Connect for secure trusted connections between EC2 instances within private subnets.
- D. Design network security in a single layer within the perimeter network (also known as DMZ, demilitarized zone, and screened subnet) to facilitate quicker responses to threats.

Answer: A

Explanation:

<https://IAM.amazon.com/answers/networking/vpc-security-capabilities/> Security Group is stateful and hypervisor level.

NEW QUESTION 206

- (Exam Topic 2)

During a security event, it is discovered that some Amazon EC2 instances have not been sending Amazon CloudWatch logs.

Which steps can the Security Engineer take to troubleshoot this issue? (Select two.)

- A. Connect to the EC2 instances that are not sending the appropriate logs and verify that the CloudWatch Logs agent is running.
- B. Log in to the IAM account and select CloudWatch Log
- C. Check for any monitored EC2 instances that are in the "Alerting" state and restart them using the EC2 console.
- D. Verify that the EC2 instances have a route to the public IAM API endpoints.
- E. Connect to the EC2 instances that are not sending log
- F. Use the command prompt to verify that the right permissions have been set for the Amazon SNS topic.
- G. Verify that the network access control lists and security groups of the EC2 instances have the access to send logs over SNMP.

Answer: AC

Explanation:

<https://docs.IAM.amazon.com/AmazonCloudWatch/latest/monitoring/cloudwatch-and-interface-VPC.html>

NEW QUESTION 210

- (Exam Topic 2)

You have enabled Cloudtrail logs for your company's IAM account. In addition, the IT Security department has mentioned that the logs need to be encrypted. How can this be achieved?

Please select:

- A. Enable SSL certificates for the Cloudtrail logs
- B. There is no need to do anything since the logs will already be encrypted
- C. Enable Server side encryption for the trail
- D. Enable Server side encryption for the destination S3 bucket

Answer: B

Explanation:

The IAM Documentation mentions the following.

By default CloudTrail event log files are encrypted using Amazon S3 server-side encryption (SSE). You can also choose to encryption your log files with an IAM Key Management Service (IAM KMS) key. You can store your log files in your bucket for as long as you want. You can also define Amazon S3 lifecycle rules to archive or delete log files automatically. If you want notifications about lo file delivery and validation, you can set up Amazon SNS notifications.

Option A.C and D are not valid since logs will already be encrypted

For more information on how Cloudtrail works, please visit the following URL: <https://docs.IAM.amazon.com/IAMcloudtrail/latest/usereuide/how-cloudtrail-works.html>

The correct answer is: There is no need to do anything since the logs will already be encrypted

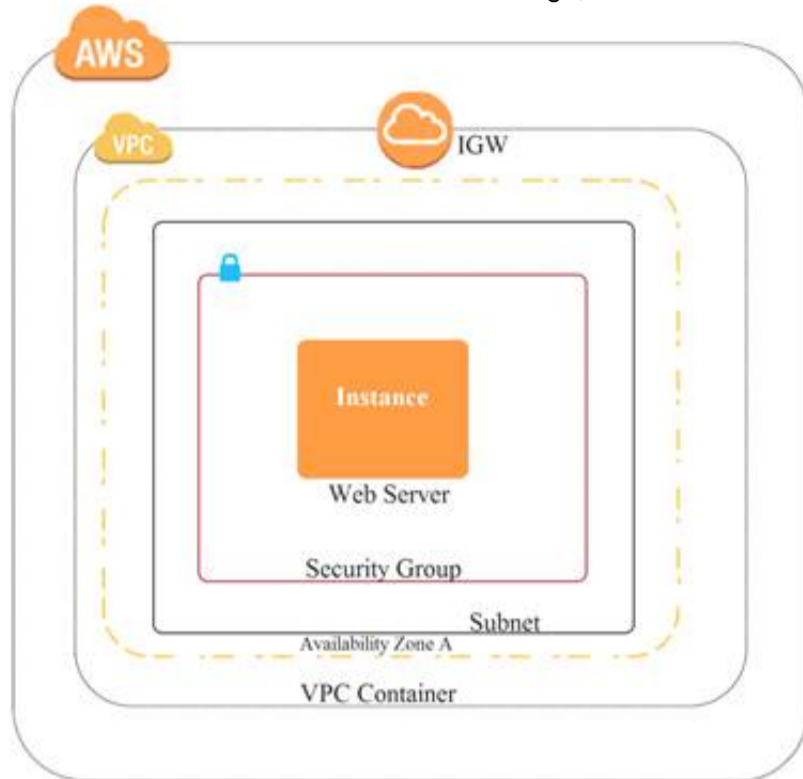
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NEW QUESTION 215

- (Exam Topic 2)

A company recently experienced a DDoS attack that prevented its web server from serving content. The website is static and hosts only HTML, CSS, and PDF files that users download.

Based on the architecture shown in the image, what is the BEST way to protect the site against future attacks while minimizing the ongoing operational overhead?



- A. Move all the files to an Amazon S3 bucket
- B. Have the web server serve the files from the S3 bucket.
- C. Launch a second Amazon EC2 instance in a new subne
- D. Launch an Application Load Balancer in front of both instances.
- E. Launch an Application Load Balancer in front of the EC2 instanc
- F. Create an Amazon CloudFront distribution in front of the Application Load Balancer.
- G. Move all the files to an Amazon S3 bucke
- H. Create a CloudFront distribution in front of the bucket and terminate the web server.

Answer: D

Explanation:

<https://docs.IAM.amazon.com/AmazonS3/latest/dev/WebsiteHosting.html>

NEW QUESTION 219

- (Exam Topic 2)

An organization wants to be alerted when an unauthorized Amazon EC2 instance in its VPC performs a network port scan against other instances in the VPC.

When the Security team performs its own internal tests in a separate account by using pre-approved third-party scanners from the IAM Marketplace, the Security team also then receives multiple Amazon GuardDuty events from Amazon CloudWatch alerting on its test activities.

How can the Security team suppress alerts about authorized security tests while still receiving alerts about the unauthorized activity?

- A. Use a filter in IAM CloudTrail to exclude the IP addresses of the Security team's EC2 instances.
- B. Add the Elastic IP addresses of the Security team's EC2 instances to a trusted IP list in Amazon GuardDuty.
- C. Install the Amazon Inspector agent on the EC2 instances that the Security team uses.
- D. Grant the Security team's EC2 instances a role with permissions to call Amazon GuardDuty API operations.

Answer: B

Explanation:

Trusted IP lists consist of IP addresses that you have whitelisted for secure communication with your IAM infrastructure and applications. GuardDuty does not generate findings for IP addresses on trusted IP lists. At any given time, you can have only one uploaded trusted IP list per IAM account per region. Threat lists consist of known malicious IP addresses. GuardDuty generates findings based on threat lists. At any given time, you can have up to six uploaded threat lists per IAM account per region. https://docs.IAM.amazon.com/guardduty/latest/ug/guardduty_upload_lists.html

NEW QUESTION 222

- (Exam Topic 2)

A corporate cloud security policy states that communications between the company's VPC and KMS must travel entirely within the IAM network and not use public service endpoints.

Which combination of the following actions MOST satisfies this requirement? (Choose two.)

- A. Add the IAM:sourceVpce condition to the IAM KMS key policy referencing the company's VPC endpoint ID.
- B. Remove the VPC internet gateway from the VPC and add a virtual private gateway to the VPC to prevent direct, public internet connectivity.
- C. Create a VPC endpoint for IAM KMS with private DNS enabled.
- D. Use the KMS Import Key feature to securely transfer the IAM KMS key over a VPN.
- E. Add the following condition to the IAM KMS key policy: "IAM:SourceIp": "10.0.0.0/16".

Answer: AC

Explanation:

An IAM policy can deny access to KMS except through your VPC endpoint with the following condition statement:

```
"Condition": { "StringNotEquals": {  
  "IAM:sourceVpce": "vpce-0295a3caf8414c94a"  
}  
}
```

If you select the Enable Private DNS Name option, the standard IAM KMS DNS hostname (<https://kms.<region>.amazonIAM.com>) resolves to your VPC endpoint.

NEW QUESTION 223

- (Exam Topic 2)

An organization has a system in IAM that allows a large number of remote workers to submit data files. File sizes vary from a few kilobytes to several megabytes.

A recent audit highlighted a concern that data files are not encrypted while in transit over untrusted networks.

Which solution would remediate the audit finding while minimizing the effort required?

- A. Upload an SSL certificate to IAM, and configure Amazon CloudFront with the passphrase for the private key.
- B. Call KMS.Encrypt() in the client, passing in the data file contents, and call KMS.Decrypt() server-side.
- C. Use IAM Certificate Manager to provision a certificate on an Elastic Load Balancing in front of the web service's servers.
- D. Create a new VPC with an Amazon VPC VPN endpoint, and update the web service's DNS record.

Answer: C

NEW QUESTION 228

- (Exam Topic 2)

A Security Engineer is trying to determine whether the encryption keys used in an IAM service are in compliance with certain regulatory standards.

Which of the following actions should the Engineer perform to get further guidance?

- A. Read the IAM Customer Agreement.
- B. Use IAM Artifact to access IAM compliance reports.
- C. Post the question on the IAM Discussion Forums.
- D. Run IAM Config and evaluate the configuration outputs.

Answer: B

Explanation:

<https://IAM.amazon.com/artifact/>

Third-party auditors assess the security and compliance of IAM Key Management Service as part of multiple IAM compliance programs. These include SOC, PCI, FedRAMP, HIPPA, and others. The compliance document is found in IAM Artifact.

NEW QUESTION 230

- (Exam Topic 2)

A threat assessment has identified a risk whereby an internal employee could exfiltrate sensitive data from production host running inside IAM (Account 1). The threat was documented as follows:

Threat description: A malicious actor could upload sensitive data from Server X by configuring credentials for an IAM account (Account 2) they control and uploading data to an Amazon S3 bucket within their control.

Server X has outbound internet access configured via a proxy server. Legitimate access to S3 is required so that the application can upload encrypted files to an S3 bucket. Server X is currently using an IAM instance role. The proxy server is not able to inspect any of the server communication due to TLS encryption.

Which of the following options will mitigate the threat? (Choose two.)

- A. Bypass the proxy and use an S3 VPC endpoint with a policy that whitelists only certain S3 buckets within Account 1.
- B. Block outbound access to public S3 endpoints on the proxy server.
- C. Configure Network ACLs on Server X to deny access to S3 endpoints.
- D. Modify the S3 bucket policy for the legitimate bucket to allow access only from the public IP addresses associated with the application server.
- E. Remove the IAM instance role from the application server and save API access keys in a trusted and encrypted application config file.

Answer: AB

NEW QUESTION 232

- (Exam Topic 2)

A Security Administrator has a website hosted in Amazon S3. The Administrator has been given the following requirements:

- Users may access the website by using an Amazon CloudFront distribution.
- Users may not access the website directly by using an Amazon S3 URL.

Which configurations will support these requirements? (Choose two.)

- A. Associate an origin access identity with the CloudFront distribution.
- B. Implement a "Principal": "cloudfront.amazonIAM.com" condition in the S3 bucket policy.
- C. Modify the S3 bucket permissions so that only the origin access identity can access the bucket contents.
- D. Implement security groups so that the S3 bucket can be accessed only by using the intended CloudFront distribution.
- E. Configure the S3 bucket policy so that it is accessible only through VPC endpoints, and place the CloudFront distribution into the specified VPC.

Answer: AC

NEW QUESTION 235

- (Exam Topic 2)

A Security Architect is evaluating managed solutions for storage of encryption keys. The requirements are:

- Storage is accessible by using only VPCs.
- Service has tamper-evident controls.
- Access logging is enabled.
- Storage has high availability.

Which of the following services meets these requirements?

- A. Amazon S3 with default encryption
- B. IAM CloudHSM
- C. Amazon DynamoDB with server-side encryption
- D. IAM Systems Manager Parameter Store

Answer: B

NEW QUESTION 240

- (Exam Topic 2)

A company has five IAM accounts and wants to use IAM CloudTrail to log API calls. The log files must be stored in an Amazon S3 bucket that resides in a new account specifically built for centralized services with a unique top-level prefix for each trail. The configuration must also enable detection of any modification to the logs.

Which of the following steps will implement these requirements? (Choose three.)

- A. Create a new S3 bucket in a separate IAM account for centralized storage of CloudTrail logs, and enable "Log File Validation" on all trails.
- B. Use an existing S3 bucket in one of the accounts, apply a bucket policy to the new centralized S3 bucket that permits the CloudTrail service to use the "s3:PutObject" action and the "s3:GetBucketACL" action, and specify the appropriate resource ARNs for the CloudTrail trails.
- C. Apply a bucket policy to the new centralized S3 bucket that permits the CloudTrail service to use the "s3:PutObject" action and the "s3:GetBucketACL" action, and specify the appropriate resource ARNs for the CloudTrail trails.
- D. Use unique log file prefixes for trails in each IAM account.
- E. Configure CloudTrail in the centralized account to log all accounts to the new centralized S3 bucket.
- F. Enable encryption of the log files by using IAM Key Management Service

Answer: ACE

Explanation:

<https://docs.IAM.amazon.com/IAMcloudtrail/latest/userguide/best-practices-security.html>

If you have created an organization in IAM Organizations, you can create a trail that will log all events for all IAM accounts in that organization. This is sometimes referred to as an organization trail. You can also choose to edit an existing trail in the master account and apply it to an organization, making it an organization trail. Organization trails log events for the master account and all member accounts in the organization. For more information about IAM Organizations, see Organizations Terminology and Concepts. Note Reference: <https://docs.IAM.amazon.com/IAMcloudtrail/latest/userguide/creating-trail-organization.html> You must be logged in with the master account for the organization in order to create an organization trail. You must also have sufficient permissions for the IAM user or role in the master account in order to successfully create an organization trail. If you do not have sufficient permissions, you will not see the option to apply a trail to an organization.

NEW QUESTION 241

- (Exam Topic 2)

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

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

- A. The execution role for the Lambda function did not grant permissions to write log data to CloudWatch Logs.
- B. The Lambda function was executed by using Amazon API Gateway, so the logs are not stored in CloudWatch Logs.
- C. The execution role for the Lambda function did not grant permissions to write to the Amazon S3 bucket where CloudWatch Logs stores the logs.
- D. The version of the Lambda function that was executed was not current.

Answer: A

NEW QUESTION 245

- (Exam Topic 2)

A Security Engineer who was reviewing IAM Key Management Service (IAM KMS) key policies found this statement in each key policy in the company IAM account.

```
{
  "Sid": "Enable IAM User Permissions",
  "Effect": "Allow",
  "Principal": {
    "AWS": "arn:aws:iam::111122223333:root"
  },
  "Action": "kms:*",
  "Resource": "*"
}
```

What does the statement allow?

- A. All principals from all IAM accounts to use the key.
- B. Only the root user from account 111122223333 to use the key.
- C. All principals from account 111122223333 to use the key but only on Amazon S3.
- D. Only principals from account 111122223333 that have an IAM policy applied that grants access to this key to use the key.

Answer: D

NEW QUESTION 249

- (Exam Topic 2)

Your company has defined a number of EC2 Instances over a period of 6 months. They want to know if any of the security groups allow unrestricted access to a resource. What is the best option to accomplish this requirement?

Please select:

- A. Use IAM Inspector to inspect all the security Groups
- B. Use the IAM Trusted Advisor to see which security groups have compromised access.
- C. Use IAM Config to see which security groups have compromised access.
- D. Use the IAM CLI to query the security groups and then filter for the rules which have unrestricted access

Answer: B

Explanation:

The IAM Trusted Advisor can check security groups for rules that allow unrestricted access to a resource. Unrestricted access increases opportunities for malicious activity (hacking, denial-of-service attacks, loss of data).

If you go to IAM Trusted Advisor, you can see the details C:\Users\wk\Desktop\mudassar\Untitled.jpg



Option A is invalid because IAM Inspector is used to detect security vulnerabilities in instances and not for security groups.

Option C is invalid because this can be used to detect changes in security groups but not show you security groups that have compromised access.

Option D is partially valid but would just be a maintenance overhead

For more information on the IAM Trusted Advisor, please visit the below URL: <https://IAM.amazon.com/premiumsupport/trustedadvisor/best-practices>;

The correct answer is: Use the IAM Trusted Advisor to see which security groups have compromised access. Submit your Feedback/Queries to our Experts

NEW QUESTION 250

- (Exam Topic 2)

An Amazon EC2 instance is part of an EC2 Auto Scaling group that is behind an Application Load Balancer (ALB). It is suspected that the EC2 instance has been compromised.

Which steps should be taken to investigate the suspected compromise? (Choose three.)

- A. Detach the elastic network interface from the EC2 instance.
- B. Initiate an Amazon Elastic Block Store volume snapshot of all volumes on the EC2 instance.
- C. Disable any Amazon Route 53 health checks associated with the EC2 instance.
- D. De-register the EC2 instance from the ALB and detach it from the Auto Scaling group.
- E. Attach a security group that has restrictive ingress and egress rules to the EC2 instance.
- F. Add a rule to an IAM WAF to block access to the EC2 instance.

Answer: BDE

Explanation:

https://d1.IAMstatic.com/whitepapers/IAM_security_incident_response.pdf

NEW QUESTION 252

- (Exam Topic 2)

An Amazon S3 bucket is encrypted using an IAM KMS CMK. An IAM user is unable to download objects from the S3 bucket using the IAM Management Console; however, other users can download objects from the S3 bucket.

Which policies should the Security Engineer review and modify to resolve this issue? (Select three.)

- A. The CMK policy
- B. The VPC endpoint policy
- C. The S3 bucket policy
- D. The S3 ACL
- E. The IAM policy

Answer: ACE

Explanation:

<https://IAM.amazon.com/premiumsupport/knowledge-center/decrypt-kms-encrypted-objects-s3/>

NEW QUESTION 253

- (Exam Topic 2)

Your development team has started using IAM resources for development purposes. The IAM account has just been created. Your IT Security team is worried about possible leakage of IAM keys. What is the first level of measure that should be taken to protect the IAM account.

Please select:

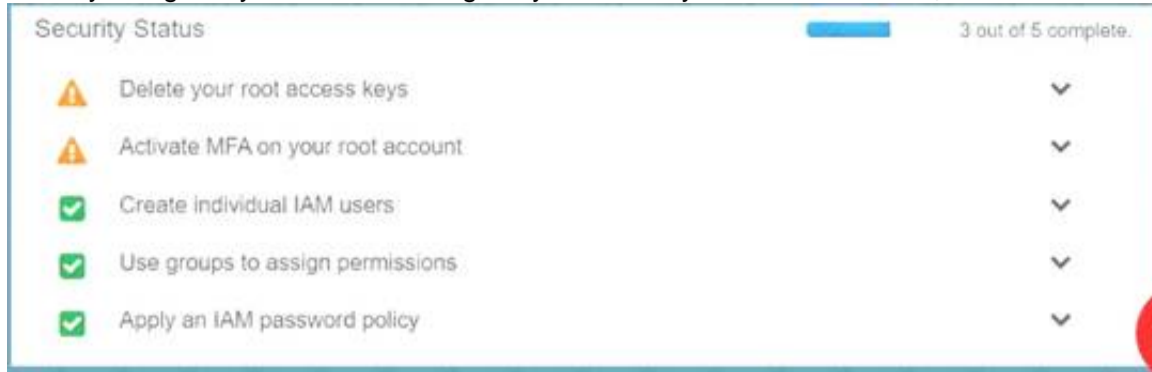
- A. Delete the IAM keys for the root account
- B. Create IAM Groups
- C. Create IAM Roles
- D. Restrict access using IAM policies

Answer: A

Explanation:

The first level or measure that should be taken is to delete the keys for the IAM root user

When you log into your account and go to your Security Access dashboard, this is the first step that can be seen C:\Users\wk\Desktop\mudassar\Untitled.jpg



Option B and C are wrong because creation of IAM groups and roles will not change the impact of leakage of IAM root access keys

Option D is wrong because the first key aspect is to protect the access keys for the root account For more information on best practises for Security Access keys, please visit the below URL:

<https://docs.IAM.amazon.com/eeneral/latest/gr/IAM-access-keys-best-practices.html>

The correct answer is: Delete the IAM keys for the root account Submit your Feedback/Queries to our Experts

NEW QUESTION 258

- (Exam Topic 2)

A Development team has asked for help configuring the IAM roles and policies in a new IAM account. The team using the account expects to have hundreds of master keys and therefore does not want to manage access control for customer master keys (CMKs).

Which of the following will allow the team to manage IAM KMS permissions in IAM without the complexity of editing individual key policies?

- A. The account's CMK key policy must allow the account's IAM roles to perform KMS EnableKey.
- B. Newly created CMKs must have a key policy that allows the root principal to perform all actions.
- C. Newly created CMKs must allow the root principal to perform the kms CreateGrant API operation.
- D. Newly created CMKs must mirror the IAM policy of the KMS key administrator.

Answer: B

Explanation:

<https://docs.IAM.amazon.com/kms/latest/developerguide/key-policies.html#key-policy-default-allow-root-enabl>

NEW QUESTION 262

- (Exam Topic 2)

A Security Engineer is working with the development team to design a supply chain application that stores sensitive inventory data in an Amazon S3 bucket. The application will use an IAM KMS customer master key (CMK) to encrypt the data on Amazon S3. The inventory data on Amazon S3 will be shared of vendors. All vendors will use IAM principals from their own IAM accounts to access the data on Amazon S3. The vendor list may change weekly, and the solution must support cross-account access.

What is the MOST efficient way to manage access control for the KMS CMK?

- A. Use KMS grants to manage key acces
- B. Programmatically create and revoke grants to manage vendor access.
- C. Use an IAM role to manage key acces
- D. Programmatically update the IAM role policies to manage vendor access.
- E. Use KMS key policies to manage key acces
- F. Programmatically update the KMS key policies to manage vendor access.
- G. Use delegated access across IAM accounts by using IAM roles to manage key acces
- H. Programmatically update the IAM trust policy to manage cross-account vendor access.

Answer: A

NEW QUESTION 265

- (Exam Topic 2)

A Developer who is following IAM best practices for secure code development requires an application to encrypt sensitive data to be stored at rest, locally in the application, using IAM KMS. What is the simplest and MOST secure way to decrypt this data when required?

- A. Request KMS to provide the stored unencrypted data key and then use the retrieved data key to decrypt the data.
- B. Keep the plaintext data key stored in Amazon DynamoDB protected with IAM policie
- C. Query DynamoDB to retrieve the data key to decrypt the data
- D. Use the Encrypt API to store an encrypted version of the data key with another customer managed key.Decrypt the data key and use it to decrypt the data when required.
- E. Store the encrypted data key alongside the encrypted dat
- F. Use the Decrypt API to retrieve the data key to decrypt the data when required.

Answer: D

Explanation:

We recommend that you use the following pattern to locally encrypt data: call the GenerateDataKey API, use the key returned in the Plaintext response field to locally encrypt data, and then erase the plaintext data key from memory. Store the encrypted data key (contained in the CiphertextBlob field) alongside of the locally encrypted data. The Decrypt API returns the plaintext key from the encrypted key.

<https://docs.IAM.amazon.com/sdkfornet/latest/apidocs/items/MKeyManagementServiceKeyManagementServic>

NEW QUESTION 269

- (Exam Topic 2)

A security team is creating a response plan in the event an employee executes unauthorized actions on IAM infrastructure. They want to include steps to

determine if the employee's IAM permissions changed as part of the incident.
 What steps should the team document in the plan? Please select:

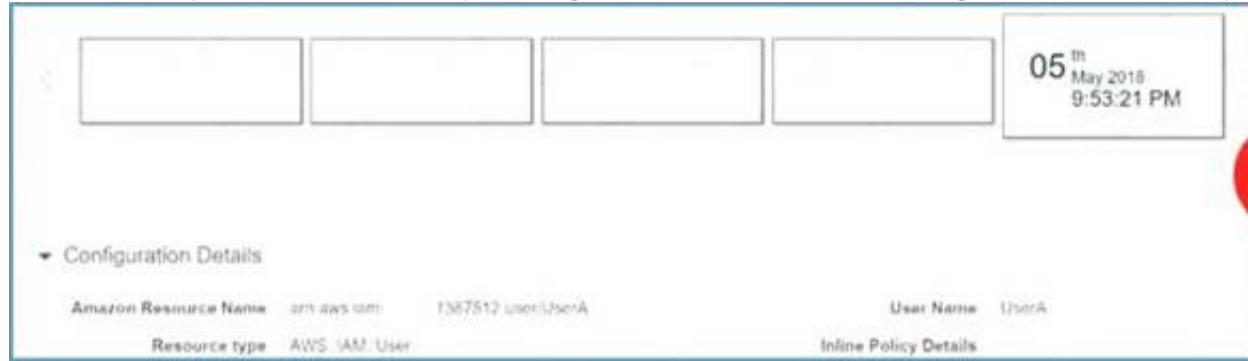
- A. Use IAM Config to examine the employee's IAM permissions prior to the incident and compare them to the employee's current IAM permissions.
- B. Use Made to examine the employee's IAM permissions prior to the incident and compare them to the employee's A current IAM permissions.
- C. Use CloudTrail to examine the employee's IAM permissions prior to the incident and compare them to the employee's current IAM permissions.
- D. Use Trusted Advisor to examine the employee's IAM permissions prior to the incident and compare them to the employee's current IAM permissions.

Answer: A

Explanation:

You can use the IAMConfig history to see the history of a particular item.

The below snapshot shows an example configuration for a user in IAM Config C:\Users\wk\Desktop\mudassar\Untitled.jpg



Option B,C and D are all invalid because these services cannot be used to see the history of a particular configuration item. This can only be accomplished by IAM Config.

For more information on tracking changes in IAM Config, please visit the below URL:

<https://docs.IAM.amazon.com/AmazonCloudFront/latest/DeveloperGuide/TrackineChanees.html>

The correct answer is: Use IAM Config to examine the employee's IAM permissions prior to the incident and compare them the employee's current IAM permissions.

Submit your Feedback/Queries to our Experts

NEW QUESTION 271

- (Exam Topic 2)

Your company has defined privileged users for their IAM Account. These users are administrators for key resources defined in the company. There is now a mandate to enhance the security authentication for these users. How can this be accomplished?

Please select:

- A. Enable MFA for these user accounts
- B. Enable versioning for these user accounts
- C. Enable accidental deletion for these user accounts
- D. Disable root access for the users

Answer: A

Explanation:

The IAM Documentation mentions the following as a best practices for IAM users. For extra security, enable multi-factor authentication (MFA) for privileged IAM users (users who are allowed access to sensitive resources or APIs). With MFA, users have a device that generates unique authentication code (a one-time password, or OTP). Users must provide both their normal credentials (like their user name and password) and the OTP. The MFA device can either be a special piece of hardware, or it can be a virtual device (for example, it can run in an app on a smartphone).

Option B,C and D are invalid because no such security options are available in IAM For more information on IAM best practices, please visit the below URL

<https://docs.IAM.amazon.com/IAM/latest/UserGuide/best-practices.html> The correct answer is: Enable MFA for these user accounts

Submit your Feedback/Queries to our Experts

NEW QUESTION 275

- (Exam Topic 2)

Your company has a requirement to monitor all root user activity by notification. How can this best be achieved? Choose 2 answers from the options given below.

Each answer forms part of the solution

Please select:

- A. Create a Cloudwatch Events Rule s
- B. Create a Cloudwatch Logs Rule
- C. Use a Lambda function
- D. Use Cloudtrail API call

Answer: AC

Explanation:

Below is a snippet from the IAM blogs on a solution C:\Users\wk\Desktop\mudassar\Untitled.jpg



Option B is invalid because you need to create a Cloudwatch Events Rule and there is such thing as a Cloudwatch Logs Rule Option D is invalid because Cloud Trail API calls can be recorded but cannot be used to send across notifications For more information on this blog article, please visit the following URL:
<https://IAM.amazon.com/blogs/mt/monitor-and-notify-on-IAM-account-root-user-activity> The correct answers are: Create a Cloudwatch Events Rule, Use a Lambda function
 Submit your Feedback/Queries to our Experts

NEW QUESTION 280

- (Exam Topic 2)

The InfoSec team has mandated that in the future only approved Amazon Machine Images (AMIs) can be used. How can the InfoSec team ensure compliance with this mandate?

- A. Terminate all Amazon EC2 instances and relaunch them with approved AMIs.
- B. Patch all running instances by using IAM Systems Manager.
- C. Deploy IAM Config rules and check all running instances for compliance.
- D. Define a metric filter in Amazon CloudWatch Logs to verify compliance.

Answer: C

Explanation:

<https://docs.IAM.amazon.com/config/latest/developerguide/approved-amis-by-id.html>

NEW QUESTION 285

- (Exam Topic 2)

A company hosts a critical web application on the IAM Cloud. This is a key revenue generating application for the company. The IT Security team is worried about potential DDos attacks against the web site. The senior management has also specified that immediate action needs to be taken in case of a potential DDos attack. What should be done in this regard?
 Please select:

- A. Consider using the IAM Shield Service
- B. Consider using VPC Flow logs to monitor traffic for DDos attack and quickly take actions on a trigger of a potential attack.
- C. Consider using the IAM Shield Advanced Service
- D. Consider using Cloudwatch logs to monitor traffic for DDos attack and quickly take actions on a trigger of a potential attack.

Answer: C

Explanation:

Option A is invalid because the normal IAM Shield Service will not help in immediate action against a DDos attack. This can be done via the IAM Shield Advanced Service

Option B is invalid because this is a logging service for VPCs traffic flow but cannot specifically protect against DDos attacks.

Option D is invalid because this is a logging service for IAM Services but cannot specifically protect against DDos attacks.

The IAM Documentation mentions the following

IAM Shield Advanced provides enhanced protections for your applications running on Amazon EC2. Elastic Load Balancing (ELB), Amazon CloudFront and Route 53 against larger and more sophisticated attacks. IAM Shield Advanced is available to IAM Business Support and IAM Enterprise Support customers. IAM Shield Advanced protection provides always-on, flow-based monitoring of network traffic and active application monitoring to provide near real-time notifications of DDos attacks. IAM Shield Advanced also gives customers highly flexible controls over attack mitigations to take actions instantly. Customers can also engage the DDos Response Team (DRT) 24X7 to manage and mitigate their application layer DDos attacks.

For more information on IAM Shield, please visit the below URL: <https://IAM.amazon.com/shield/faqs>;

The correct answer is: Consider using the IAM Shield Advanced Service Submit your Feedback/Queries to our Experts

NEW QUESTION 288

- (Exam Topic 2)

Which approach will generate automated security alerts should too many unauthorized IAM API requests be identified?

- A. Create an Amazon CloudWatch metric filter that looks for API call error codes and then implement an alarm based on that metric's rate.
- B. Configure IAM CloudTrail to stream event data to Amazon Kinesis
- C. Configure an IAM Lambda function on the stream to alarm when the threshold has been exceeded.
- D. Run an Amazon Athena SQL query against CloudTrail log file
- E. Use Amazon QuickSight to create an operational dashboard.
- F. Use the Amazon Personal Health Dashboard to monitor the account's use of IAM services, and raise an alert if service error rates increase.

Answer: A

Explanation:

<https://docs.IAM.amazon.com/IAMcloudtrail/latest/userguide/cloudwatch-alarms-for-cloudtrail.html#cloudwatc> Open the CloudWatch console at <https://console.IAM.amazon.com/cloudwatch/>. In the navigation pane, choose Logs. In the list of log groups, select the check box next to the log group that you created for CloudTrail log events. Choose Create Metric Filter. On the Define Logs Metric Filter screen, choose Filter Pattern and then type the following: { (\$.errorCode = "*UnauthorizedOperation") || (\$.errorCode = "AccessDenied*")} Choose Assign Metric. For Filter Name, type AuthorizationFailures. For Metric Namespace, type CloudTrailMetrics. For Metric Name, type AuthorizationFailureCount.

NEW QUESTION 290

- (Exam Topic 2)

An organization is using IAM CloudTrail, Amazon CloudWatch Logs, and Amazon CloudWatch to send alerts when new access keys are created. However, the alerts are no longer appearing in the Security Operations mail box. Which of the following actions would resolve this issue?

- A. In CloudTrail, verify that the trail logging bucket has a log prefix configured.
- B. In Amazon SNS, determine whether the "Account spend limit" has been reached for this alert.
- C. In SNS, ensure that the subscription used by these alerts has not been deleted.
- D. In CloudWatch, verify that the alarm threshold "consecutive periods" value is equal to, or greater than 1.

Answer: C

NEW QUESTION 291

- (Exam Topic 2)

A security team is responsible for reviewing IAM API call activity in the cloud environment for security violations. These events must be recorded and retained in a centralized location for both current and future IAM regions. What is the SIMPLEST way to meet these requirements?

- A. Enable IAM Trusted Advisor security checks in the IAM Console, and report all security incidents for all regions.
- B. Enable IAM CloudTrail by creating individual trails for each region, and specify a single Amazon S3 bucket to receive log files for later analysis.
- C. Enable IAM CloudTrail by creating a new trail and applying the trail to all region
- D. Specify a single Amazon S3 bucket as the storage location.
- E. Enable Amazon CloudWatch logging for all IAM services across all regions, and aggregate them to a single Amazon S3 bucket for later analysis.

Answer: C

Explanation:

<https://docs.IAM.amazon.com/IAMcloudtrail/latest/userguide/creating-trail-organization.html>

NEW QUESTION 294

- (Exam Topic 2)

A company requires that IP packet data be inspected for invalid or malicious content. Which of the following approaches achieve this requirement? (Choose two.)

- A. Configure a proxy solution on Amazon EC2 and route all outbound VPC traffic through i
- B. Perform inspection within proxy software on the EC2 instance.
- C. Configure the host-based agent on each EC2 instance within the VP
- D. Perform inspection within the host-based agent.
- E. Enable VPC Flow Logs for all subnets in the VP
- F. Perform inspection from the Flow Log data within Amazon CloudWatch Logs.
- G. Configure Elastic Load Balancing (ELB) access log
- H. Perform inspection from the log data within the ELB access log files.
- I. Configure the CloudWatch Logs agent on each EC2 instance within the VP
- J. Perform inspection from the log data within CloudWatch Logs.

Answer: AB

Explanation:

"EC2 Instance IDS/IPS solutions offer key features to help protect your EC2 instances. This includes alerting administrators of malicious activity and policy violations, as well as identifying and taking action against attacks. You can use IAM services and third party IDS/IPS solutions offered in IAM Marketplace to stay one step ahead of potential attackers."

NEW QUESTION 296

- (Exam Topic 2)

Which of the following is not a best practice for carrying out a security audit? Please select:

- A. Conduct an audit on a yearly basis
- B. Conduct an audit if application instances have been added to your account
- C. Conduct an audit if you ever suspect that an unauthorized person might have accessed your account
- D. Whenever there are changes in your organization

Answer: A

Explanation:

A year's time is generally too long a gap for conducting security audits The IAM Documentation mentions the following You should audit your security configuration in the following situations: On a periodic basis.

If there are changes in your organization, such as people leaving.

If you have stopped using one or more individual IAM services. This is important for removing permissions that users in your account no longer need.

If you've added or removed software in your accounts, such as applications on Amazon EC2 instances, IAM OpsWor stacks, IAM CloudFormation templates, etc.

If you ever suspect that an unauthorized person might have accessed your account.

Option B, C and D are all the right ways and recommended best practices when it comes to conducting audits For more information on Security Audit guideline, please visit the below URL:

<https://docs.IAM.amazon.com/eeneral/latest/gr/IAM-security-audit-euide.html>

The correct answer is: Conduct an audit on a yearly basis Submit your Feedback/Queries to our Experts

NEW QUESTION 298

- (Exam Topic 2)

A pharmaceutical company has digitized versions of historical prescriptions stored on premises. The company would like to move these prescriptions to IAM and perform analytics on the data in them. Any operation with this data requires that the data be encrypted in transit and at rest.

Which application flow would meet the data protection requirements on IAM?

- A. Digitized files -> Amazon Kinesis Data Analytics
- B. Digitized files -> Amazon Kinesis Data Firehose -> Amazon S3 -> Amazon Athena
- C. Digitized files -> Amazon Kinesis Data Streams -> Kinesis Client Library consumer -> Amazon S3 -> Athena
- D. Digitized files -> Amazon Kinesis Data Firehose -> Amazon Elasticsearch

Answer: A

Explanation:

(Amazon Kinesis Data Analytics is the easiest way to analyze streaming data, also provide encryption at rest and in-transit)

-<https://docs.IAM.amazon.com/kinesisanalytics/latest/dev/data-protection.html>

NEW QUESTION 300

- (Exam Topic 2)

A company plans to move most of its IT infrastructure to IAM. The company wants to leverage its existing on-premises Active Directory as an identity provider for IAM.

Which steps should be taken to authenticate to IAM services using the company's on-premises Active Directory? (Choose three).

- A. Create IAM roles with permissions corresponding to each Active Directory group.
- B. Create IAM groups with permissions corresponding to each Active Directory group.
- C. Create a SAML provider with IAM.
- D. Create a SAML provider with Amazon Cloud Directory.
- E. Configure IAM as a trusted relying party for the Active Directory
- F. Configure IAM as a trusted relying party for Amazon Cloud Directory.

Answer: ACE

Explanation:

<https://IAM.amazon.com/blogs/security/IAM-federated-authentication-with-active-directory-federation-services>

NEW QUESTION 303

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