

# Exam Questions SCS-C02

AWS Certified Security - Specialty

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#### NEW QUESTION 1

- (Exam Topic 1)

A company has multiple IAM accounts that are part of IAM Organizations. The company's Security team wants to ensure that even those Administrators with full access to the company's IAM accounts are unable to access the company's Amazon S3 buckets. How should this be accomplished?

- A. Use SCPs
- B. Add a permissions boundary to deny access to Amazon S3 and attach it to all roles
- C. Use an S3 bucket policy
- D. Create a VPC endpoint for Amazon S3 and deny statements for access to Amazon S3

**Answer:** A

#### NEW QUESTION 2

- (Exam Topic 1)

A Security Engineer has several thousand Amazon EC2 instances split across production and development environments. Each instance is tagged with its environment. The Engineer needs to analyze and patch all the development EC2 instances to ensure they are not currently exposed to any common vulnerabilities or exposures (CVEs).

Which combination of steps is the MOST efficient way for the Engineer to meet these requirements? (Select TWO.)

- A. Log on to each EC2 instance, check and export the different software versions installed, and verify this against a list of current CVEs.
- B. Install the Amazon Inspector agent on all development instances. Build a custom rule package, and configure Inspector to perform a scan using this custom rule on all instances tagged as being in the development environment.
- C. Install the Amazon Inspector agent on all development instances. Configure Inspector to perform a scan using the CVE rule package on all instances tagged as being in the development environment.
- D. Install the Amazon EC2 System Manager agent on all development instances. Issue the Run command to EC2 System Manager to update all instances.
- E. Use IAM Trusted Advisor to check that all EC2 instances have been patched to the most recent version of operating system and installed software.

**Answer:** CD

#### NEW QUESTION 3

- (Exam Topic 1)

A security engineer has created an Amazon Cognito user pool. The engineer needs to manually verify the ID and access token sent by the application for troubleshooting purposes.

What is the MOST secure way to accomplish this?

- A. Extract the subject (sub), audience (aud), and cognito:username from the ID token payload. Manually check the subject and audience for the user name in the user pool.
- B. Search for the public key with a key ID that matches the key ID in the header of the token.
- C. Then use a JSON Web Token (JWT) library to validate the signature of the token and extract values, such as the expiry date.
- D. Verify that the token is not expired.
- E. Then use the token\_use claim function in Amazon Cognito to validate the key IDs.
- F. Copy the JSON Web Token (JWT) as a JSON document. Obtain the public JSON Web Key (JWK) and convert it to a pem file.
- G. Then use the file to validate the original JWT.

**Answer:** A

#### NEW QUESTION 4

- (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 5

- (Exam Topic 1)

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

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

**Answer:** ACD

#### NEW QUESTION 6

- (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 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 SSLTLS 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 AL
- 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 company is configuring three Amazon EC2 instances with each instance in a separate Availability Zone. The EC2 instances will be used as transparent proxies for outbound internet traffic for ports 80 and 443 so the proxies can block traffic to certain internet destinations as required by the company's security policies. A Security Engineer completed the following:

- Set up the proxy software on the EC2 instances.
- Modified the route tables on the private subnets to use the proxy EC2 instances as the default route.
- Created a security group rule opening inbound port 80 and 443 TCP protocols on the proxy EC2 instance security group.

However, the proxy EC2 instances are not successfully forwarding traffic to the internet.

What should the Security Engineer do to make the proxy EC2 instances route traffic to the internet?

- A. Put all the proxy EC2 instances in a cluster placement group.
- B. Disable source and destination checks on the proxy EC2 instances.
- C. Open all inbound ports on the proxy EC2 instance security group.
- D. Change the VPC's DHCP domain-name-server's options set to the IP addresses of proxy EC2 instances.

**Answer:** B

#### NEW QUESTION 10

- (Exam Topic 1)

A security engineer is designing a solution that will provide end-to-end encryption between clients and Docker containers running In Amazon Elastic Container Service (Amazon ECS). This solution will also handle volatile traffic patterns

Which solution would have the MOST scalability and LOWEST latency?

- A. Configure a Network Load Balancer to terminate the TLS traffic and then re-encrypt the traffic to the containers
- B. Configure an Application Load Balancer to terminate the TLS traffic and then re-encrypt the traffic to the containers
- C. Configure a Network Load Balancer with a TCP listener to pass through TLS traffic to the containers
- D. Configure Amazon Route 53 to use multivalue answer routing to send traffic to the containers

**Answer:** A

#### NEW QUESTION 10

- (Exam Topic 1)

Unapproved changes were previously made to a company's Amazon S3 bucket. A security engineer configured IAM Config to record configuration changes made to the company's S3 buckets. The engineer discovers there are S3 configuration changes being made, but no Amazon SNS notifications are being sent. The engineer has already checked the configuration of the SNS topic and has confirmed the configuration is valid.

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

- A. Configure the S3 bucket ACLs to allow IAM Config to record changes to the buckets.
- B. Configure policies attached to S3 buckets to allow IAM Config to record changes to the buckets.
- C. Attach the AmazonS3ReadOnlyAccess managed policy to the IAM user.
- D. Verify the security engineer's IAM user has an attached policy that allows all IAM Config actions.
- E. Assign the IAMConfigRole managed policy to the IAM Config role

**Answer:** BE

#### NEW QUESTION 12

- (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-dstaddr fields in the log format.
- G. Include the subnet-id and instance-id fields in the log format.

**Answer:** AE

#### NEW QUESTION 15

- (Exam Topic 1)

A security engineer is responsible for providing secure access to IAM resources for thousands of developer in a company's corporate identity provider (idp). The developers access a set of IAM services from the corporate premises using IAM credential. Due to the volume of requests for provisioning new IAM users, it is taking a long time to grant access permissions. The security engineer receives reports that developers are sharing their IAM credentials with others to avoid provisioning delays. The security engineer is concerned about overall security for the company.

Which actions will meet the program requirements that address security?

- A. Create an Amazon CloudWatch alarm for IAM CloudTrail Events Create a metric filter to send a notification when the same set of IAM credentials is used by multiple developers
- B. Create a federation between IAM and the existing corporate IdP Leverage IAM roles to provide federated access to IAM resources
- C. Create a VPN tunnel between the corporate premises and the VPC Allow permissions to all IAM services only if it originates from corporate premises.
- D. Create multiple IAM roles for each IAM user Ensure that users who use the same IAM credentials cannot assume the same IAM role at the same time.

**Answer:** B

#### NEW QUESTION 19

- (Exam Topic 1)

After a recent security audit involving Amazon S3, a company has asked assistance reviewing its S3 buckets to determine whether data is properly secured. The first S3 bucket on the list has the following bucket policy.

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Principal": "*",
      "Action": "s3:*",
      "Resource": "arn:aws:s3:::examplebucket/*",
      "Condition": {
        "IpAddress": {
          "aws:SourceIp": [
            "10.10.10.0/24"
          ]
        }
      }
    }
  ]
}
```

Is this bucket policy sufficient to ensure that the data is not publicly accessible?

- A. Yes, the bucket policy makes the whole bucket publicly accessible despite now the S3 bucket ACL or object ACLs are configured.
- B. Yes, none of the data in the bucket is publicly accessible, regardless of how the S3 bucket ACL and object ACLs are configured.
- C. No, the IAM user policy would need to be examined first to determine whether any data is publicly accessible.
- D. No, the S3 bucket ACL and object ACLs need to be examined first to determine whether any data is publicly accessible.

**Answer:** A

#### NEW QUESTION 21

- (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 23

- (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 24

- (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 29

- (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.  
Which combination 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 31

- (Exam Topic 1)

A company is collecting IAM CloudTrail log data from multiple IAM accounts by managing individual trails in each account and forwarding log data to a centralized Amazon S3 bucket residing in a log archive account. After CloudTrail introduced support for IAM Organizations trails, the company decided to further centralize management and automate deployment of the CloudTrail logging capability across all of its IAM accounts.  
The company's security engineer created an IAM Organizations trail in the master account, enabled server-side encryption with IAM KMS managed keys (SSE-KMS) for the log files, and specified the same bucket as the storage location. However, the engineer noticed that logs recorded by the new trail were not delivered to the bucket.  
Which factors could cause this issue? (Select TWO.)

- A. The CMK key policy does not allow CloudTrail to make encrypt and decrypt API calls against the key.
- B. The CMK key policy does not allow CloudTrail to make GenerateDataKey API calls against the key.
- C. The IAM role used by the CloudTrail trail does not have permissions to make PutObject API calls against a folder created for the Organizations trail.
- D. The S3 bucket policy does not allow CloudTrail to make PutObject API calls against a folder created for the Organizations trail.
- E. The CMK key policy does not allow the IAM role used by the CloudTrail trail to use the key for cryptographic operations.

**Answer:** AD

### NEW QUESTION 33

- (Exam Topic 1)

A company has several critical applications running on a large fleet of Amazon EC2 instances. As part of a security operations review, the company needs to apply a critical operating system patch to EC2 instances within 24 hours of the patch becoming available from the operating system vendor. The company does not have a patching solution deployed on IAM, but does have IAM Systems Manager configured. The solution must also minimize administrative overhead. What should a security engineer recommend to meet these requirements?

- A. Create an IAM Config rule defining the patch as a required configuration for EC2 instances.
- B. Use the IAM Systems Manager Run Command to patch affected instances.
- C. Use an IAM Systems Manager Patch Manager predefined baseline to patch affected instances.
- D. Use IAM Systems Manager Session Manager to log in to each affected instance and apply the patch.

**Answer: B**

### NEW QUESTION 35

- (Exam Topic 1)

A company is trying to replace its on-premises bastion hosts used to access on-premises Linux servers with IAM Systems Manager Session Manager. A security engineer has installed the Systems Manager Agent on all servers. The security engineer verifies that the agent is running on all the servers, but Session Manager cannot connect to them. The security engineer needs to perform verification steps before Session Manager will work on the servers. Which combination of steps should the security engineer perform? (Select THREE.)

- A. Open inbound port 22 to 0.0.0.0/0 on all Linux servers.
- B. Enable the advanced-instances tier in Systems Manager.
- C. Create a managed-instance activation for the on-premises servers.
- D. Reconfigure the Systems Manager Agent with the activation code and ID.
- E. Assign an IAM role to all of the on-premises servers.
- F. Initiate an inventory collection with Systems Manager on the on-premises servers

**Answer: CEF**

### NEW QUESTION 36

- (Exam Topic 1)

To meet regulatory requirements, a Security Engineer needs to implement an IAM policy that restricts the use of IAM services to the us-east-1 Region. What policy should the Engineer implement?

A

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": "*",
      "Resource": "*",
      "Condition": {
        "StringEquals": {
          "aws:RequestedRegion": "us-east-1"
        }
      }
    }
  ]
}
```

B

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": "*",
      "Resource": "*",
      "Condition": {
        "StringEquals": {
          "ec2:Region": "us-east-1"
        }
      }
    }
  ]
}
```

C

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Deny",
      "Action": "*",
      "Resource": "*",
      "Condition": {
        "StringNotEquals": {
          "aws:RequestedRegion": "us-east-1"
        }
      }
    }
  ]
}
```

D

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Deny",
      "NotAction": "*",
      "Resource": "*",
      "Condition": {
        "StringEquals": {
          "aws:RequestedRegion": "us-east-1"
        }
      }
    }
  ]
}
```

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

**Answer: B**

#### NEW QUESTION 40

- (Exam Topic 1)

A company is designing the securely architecture (or a global latency-sensitive web application it plans to deploy to IAM. A Security Engineer needs to configure a highly available and secure two-tier architecture. The security design must include controls to prevent common attacks such as DDoS, cross-site scripting, and SQL injection.

Which solution meets these requirements?

- A. Create an Application Load Balancer (ALB) that uses public subnets across multiple Availability Zones within a single Region
- B. Point the ALB to an Auto Scaling group with Amazon EC2 instances in private subnets across multiple Availability Zones within the same Region
- C. Create an AmazonCloudFront distribution that uses the ALB as its origin
- D. Create appropriate IAM WAF ACLs and enable them on the CloudFront distribution.
- E. Create an Application Load Balancer (ALB) that uses private subnets across multiple Availability Zones within a single Region
- F. Point the ALB to an Auto Scaling group with Amazon EC2 instances in private subnets across multiple Availability Zones within the same Region
- G. Create an Amazon CloudFront distribution that uses the ALB as its origin
- H. Create appropriate IAM WAF ACLs and enable them on the CloudFront distribution.
- I. Create an Application Load Balancer (ALB) that uses public subnets across multiple Availability Zones within a single Region
- J. Point the ALB to an Auto Scaling group with Amazon EC2 instances in private subnets across multiple Availability Zones within the same Region
- K. Create appropriate IAM WAF ACLs and enable them on the ALB.
- L. Create an Application Load Balancer (ALB) that uses private subnets across multiple Availability Zones within a single Region
- M. Point the ALB to an Auto Scaling group with Amazon EC2 instances in private subnets across multiple Availability Zones within the same Region
- N. Create appropriate IAM WAF ACLs and enable them on the ALB.

**Answer: A**

#### NEW QUESTION 42

- (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 43

- (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 45

- (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 49

- (Exam Topic 1)

A company uses SAML federation with IAM Identity and Access Management (IAM) to provide internal users with SSO for their IAM accounts. The company's identity provider certificate was rotated as part of its normal lifecycle. Shortly after, users started receiving the following error when attempting to log in:

"Error: Response Signature Invalid (Service: IAMSecurityTokenService; Status Code: 400; Error Code: InvalidIdentityToken)"

A security engineer needs to address the immediate issue and ensure that it will not occur again. Which combination of steps should the security engineer take to accomplish this? (Select TWO.)

- A. Download a new copy of the SAML metadata file from the identity provider Create a new IAM identity provider entity
- B. Upload the new metadata file to the new IAM identity provider entity.
- C. During the next certificate rotation period and before the current certificate expires, add a new certificate as the secondary to the identity provide
- D. Generate a new metadata file and upload it to the IAM identity provider entity
- E. Perform automated or manual rotation of the certificate when required.
- F. Download a new copy of the SAML metadata file from the identity provider Upload the new metadata to the IAM identity provider entity configured for the SAML integration in question.
- G. During the next certificate rotation period and before the current certificate expires, add a new certificate as the secondary to the identity provide
- H. Generate a new copy of the metadata file and create a new IAM identity provider entity
- I. Upload the metadata file to the new IAM identity provider entity
- J. Perform automated or manual rotation of the certificate when required.
- K. Download a new copy of the SAML metadata file from the identity provider Create a new IAM identity provider entity
- L. Upload the new metadata file to the new IAM identity provider entity
- M. Update the identity provider configurations to pass a new IAM identity provider entity name in the SAML assertion.

**Answer:** AD

#### NEW QUESTION 53

- (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 58**

- (Exam Topic 1)

A company is setting up products to deploy in IAM Service Catalog. Management is concerned that when users launch products, elevated IAM privileges will be required to create resources. How should the company mitigate this concern?

- A. Add a template constraint to each product in the portfolio.
- B. Add a launch constraint to each product in the portfolio.
- C. Define resource update constraints for each product in the portfolio.
- D. Update the IAM CloudFormation template backing the product to include a service role configuration.

**Answer:** B

**Explanation:**

<https://docs.IAM.amazon.com/servicecatalog/latest/adminguide/constraints-launch.html>

Launch constraints apply to products in the portfolio (product-portfolio association). Launch constraints do not apply at the portfolio level or to a product across all portfolios. To associate a launch constraint with all products in a portfolio, you must apply the launch constraint to each product individually.

**NEW QUESTION 59**

- (Exam Topic 1)

Authorized Administrators are unable to connect to an Amazon EC2 Linux bastion host using SSH over the internet. The connection either fails to respond or generates the following error message:

Network error: Connection timed out.

What could be responsible for the connection failure? (Select THREE )

- A. The NAT gateway in the subnet where the EC2 instance is deployed has been misconfigured
- B. The internet gateway of the VPC has been reconfigured
- C. The security group denies outbound traffic on ephemeral ports
- D. The route table is missing a route to the internet gateway
- E. The NACL denies outbound traffic on ephemeral ports
- F. The host-based firewall is denying SSH traffic

**Answer:** BDF

**NEW QUESTION 62**

- (Exam Topic 1)

A Security Engineer is troubleshooting a connectivity issue between a web server that is writing log files to the logging server in another VPC. The Engineer has confirmed that a peering relationship exists between the two VPCs. VPC flow logs show that requests sent from the web server are accepted by the logging server but the web server never receives a reply

Which of the following actions could fix this issue?

- A. Add an inbound rule to the security group associated with the logging server that allows requests from the web server
- B. Add an outbound rule to the security group associated with the web server that allows requests to the logging server.
- C. Add a route to the route table associated with the subnet that hosts the logging server that targets the peering connection
- D. Add a route to the route table associated with the subnet that hosts the web server that targets the peering connection

**Answer:** C

**NEW QUESTION 63**

- (Exam Topic 1)

A global company that deals with International finance is investing heavily in cryptocurrencies and wants to experiment with mining technologies using IAM. The company's security team has enabled Amazon GuardDuty and is concerned by the number of findings being generated by the accounts. The security team wants to minimize the possibility of GuardDuty finding false negatives for compromised instances that are performing mining

How can the security team continue using GuardDuty while meeting these requirements?

- A. In the GuardDuty console, select the CryptoCurrency:EC2/BitcoinTool B'DNS finding and use the suppress findings option
- B. Create a custom IAM Lambda function to process newly detected GuardDuty alerts Process the CryptoCurrency EC2/BitcoinTool BIDNS alert and filter out the high-severity finding types only.
- C. When creating a new Amazon EC2 Instance, provide the instance with a specific tag that indicates it is performing mining operations Create a custom IAM Lambda function to process newly detected GuardDuty alerts and filter for the presence of this tag
- D. When GuardDuty produces a cryptocurrency finding, process the finding with a custom IAM Lambda function to extract the instance ID from the finding Then use the IAM Systems Manager Run Command to check for a running process performing mining operations

**Answer:** A

**NEW QUESTION 65**

- (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 67

- (Exam Topic 1)

A company uses HTTP Live Streaming (HLS) to stream live video content to paying subscribers by using Amazon CloudFront. HLS splits the video content into chunks so that the user can request the right chunk based on different conditions. Because the video events last for several hours, the total video is made up of thousands of chunks. The origin URL is not disclosed and every user is forced to access the CloudFront URL. The company has a web application that authenticates the paying users against an internal repository and a CloudFront key pair that is already issued. What is the simplest and MOST effective way to protect the content?

- A. Develop the application to use the CloudFront key pair to create signed URLs that users will use to access the content.
- B. Develop the application to use the CloudFront key pair to set the signed cookies that users will use to access the content.
- C. Develop the application to issue a security token that Lambda@Edge will receive to authenticate and authorize access to the content.
- D. Keep the CloudFront URL encrypted inside the application, and use IAM KMS to resolve the URL on-the-fly after the user is authenticated.

**Answer: B**

#### NEW QUESTION 68

- (Exam Topic 1)

A company has an IAM account and allows a third-party contractor who uses another IAM account, to assume certain IAM roles. The company wants to ensure that IAM roles can be assumed by the contractor only if the contractor has multi-factor authentication enabled on their IAM user accounts. What should the company do to accomplish this?

A)

```
Add the following condition to the IAM policy attached to all IAM roles:
"Effect" : "Deny",
"Condition" : { "BoolIfExists" : { "aws:MultiFactorAuthPresent" : false } }
```

B)

```
Add the following condition to the IAM policy attached to all IAM roles:
"Effect" : "Deny",
"Condition" : { "Bool" : { "aws:MultiFactorAuthPresent" : false } }
```

C)

```
Add the following condition to the IAM policy attached to all IAM roles:
"Effect" : "Allow",
"Condition" : { "Null" : { "aws:MultiFactorAuthPresent" : false } }
```

D)

```
Add the following condition to the IAM policy attached to all IAM roles:
"Effect" : "Allow",
"Condition" : { "BoolIfExists" : { "aws:MultiFactorAuthPresent" : false } }
```

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

**Answer: A**

#### NEW QUESTION 71

- (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 72

- (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 73

- (Exam Topic 1)

A company is running an application on Amazon EC2 instances in an Auto Scaling group. The application stores logs locally. A security engineer noticed that logs were lost after a scale-in event. The security engineer needs to recommend a solution to ensure the durability and availability of log data. All logs must be kept for a minimum of 1 year for auditing purposes.

What should the security engineer recommend?

- A. Within the Auto Scaling lifecycle, add a hook to create and attach an Amazon Elastic Block Store (Amazon EBS) log volume each time an EC2 instance is created.
- B. When the instance is terminated, the EBS volume can be reattached to another instance for log review.
- C. Create an Amazon Elastic File System (Amazon EFS) file system and add a command in the user data section of the Auto Scaling launch template to mount the EFS file system during EC2 instance creation. Configure a process on the instance to copy the logs once a day from an instance Amazon Elastic Block Store (Amazon EBS) volume to a directory in the EFS file system.
- D. Build the Amazon CloudWatch agent into the AMI used in the Auto Scaling group.
- E. Configure the CloudWatch agent to send the logs to Amazon CloudWatch Logs for review.
- F. Within the Auto Scaling lifecycle, add a lifecycle hook at the terminating state transition and alert the engineering team by using a lifecycle notification to Amazon Simple Notification Service (Amazon SNS). Configure the hook to remain in the Terminating:Wait state for 1 hour to allow manual review of the security logs prior to instance termination.

**Answer:** B

#### NEW QUESTION 74

- (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 cryptocurrency. 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 79

- (Exam Topic 1)

A Security Engineer manages IAM Organizations for a company. The Engineer would like to restrict IAM usage to allow Amazon S3 only in one of the organizational units (OUs). The Engineer adds the following SCP to the OU:

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Sid": "AllowS3",
      "Effect": "Allow",
      "Action": "s3:*",
      "Resource": "*"
    }
  ]
}
```

The next day, API calls to IAM appear in IAM CloudTrail logs in an account under that OU. How should the Security Engineer resolve this issue?

- A. Move the account to a new OU and deny IAM:\* permissions.
- B. Add a Deny policy for all non-S3 services at the account level.
- C. Change the policy to: {"Version": "2012-10-17", "Statement": [{"Sid": "AllowS3", "Effect": "Allow", "Action": "s3:\*", "Resource": "/\*/\*"}]}
- D. Detach the default FullIAMAccess SCP

**Answer:** D

**Explanation:**

[https://docs.IAM.amazonaws.com/organizations/latest/APIReference/API\\_DetachPolicy.html](https://docs.IAM.amazonaws.com/organizations/latest/APIReference/API_DetachPolicy.html)

Every root, OU, and account must have at least one SCP attached. If you want to replace the default FullIAMAccess policy with an SCP that limits the permissions that can be delegated, you must attach the replacement SCP before you can remove the default SCP. This is the authorization strategy of an "allow list". If you instead attach a second SCP and leave the FullIAMAccess SCP still attached, and specify "Effect": "Deny" in the second SCP to override the "Effect": "Allow" in the FullIAMAccess policy (or any other attached SCP), you're using the authorization strategy of a "deny list".

**NEW QUESTION 84**

- (Exam Topic 1)

A company has several production IAM accounts and a central security IAM account. The security account is used for centralized monitoring and has IAM privileges to all resources in every corporate account. All of the company's Amazon S3 buckets are tagged with a value denoting the data classification of their contents.

A Security Engineer is deploying a monitoring solution in the security account that will enforce bucket policy compliance. The system must monitor S3 buckets in all production accounts and confirm that any policy change is in accordance with the bucket's data classification. If any change is out of compliance; the Security team must be notified quickly.

Which combination of actions would build the required solution? (Choose three.)

- A. Configure Amazon CloudWatch Events in the production accounts to send all S3 events to the security account event bus.
- B. Enable Amazon GuardDuty in the security account
- C. and join the production accounts as members.
- D. Configure an Amazon CloudWatch Events rule in the security account to detect S3 bucket creation or modification events.
- E. Enable IAM Trusted Advisor and activate email notifications for an email address assigned to the security contact.
- F. Invoke an IAM Lambda function in the security account to analyze S3 bucket settings in response to S3 events, and send non-compliance notifications to the Security team.
- G. Configure event notifications on S3 buckets for PUT, POST, and DELETE events.

**Answer:** DEF

**NEW QUESTION 88**

- (Exam Topic 1)

A company is using IAM Organizations to manage multiple IAM accounts. The company has an application that allows users to assume the AppUser IAM role to download files from an Amazon S3 bucket that is encrypted with an IAM KMS CMK. However, when users try to access the files in the S3 bucket, they get an access denied error.

What should a Security Engineer do to troubleshoot this error? (Select THREE)

- A. Ensure the KMS policy allows the AppUser role to have permission to decrypt for the CMK
- B. Ensure the S3 bucket policy allows the AppUser role to have permission to get objects for the S3 bucket
- C. Ensure the CMK was created before the S3 bucket.
- D. Ensure the S3 block public access feature is enabled for the S3 bucket.
- E. Ensure that automatic key rotation is disabled for the CMK
- F. Ensure the SCPs within Organizations allow access to the S3 bucket.

**Answer:** ABF

**NEW QUESTION 91**

- (Exam Topic 1)

A company needs its Amazon Elastic Block Store (Amazon EBS) volumes to be encrypted at all times. During a security incident, EBS snapshots of suspicious instances are shared to a forensics account for analysis. A security engineer attempting to share a suspicious EBS snapshot to the forensics account receives the following error:

"Unable to share snapshot: An error occurred (OperationNotPermitted) when calling the ModifySnapshotAttribute operation: Encrypted snapshots with EBS default key cannot be shared."

Which combination of steps should the security engineer take in the incident account to complete the sharing operation? (Select THREE)

- A. Create a customer managed CMK. Copy the EBS snapshot, encrypting the destination snapshot using the new CMK.
- B. Allow forensics account principals to use the CMK by modifying its policy.
- C. Create an Amazon EC2 instance
- D. Attach the encrypted and suspicious EBS volume
- E. Copy data from the suspicious volume to an unencrypted volume



- F. Snapshot the unencrypted volume
- G. Copy the EBS snapshot to the new decrypted snapshot
- H. Restore a volume from the suspicious EBS snapsho
- I. Create an unencrypted EBS volume of the same size.
- J. Share the target EBS snapshot with the forensics account.

**Answer:** ABF

#### NEW QUESTION 92

- (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 94

- (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 98

- (Exam Topic 1)

A developer is creating an IAM Lambda function that requires environment variables to store connection information and logging settings. The developer is required to use an IAM KMS Customer Master Key (CMK) supplied by the information security department in order to adhere to company standards for securing Lambda environment variables.

Which of the following are required for this configuration to work? (Select TWO.)

- A. The developer must configure Lambda access to the VPC using the --vpc-config parameter.
- B. The Lambda function execution role must have the kms:Decrypt- permission added in the IAM IAM policy.
- C. The KMS key policy must allow permissions for the developer to use the KMS key.
- D. The IAM IAM policy assigned to the developer must have the kms:GenerateDataKey permission added.
- E. The Lambda execution role must have the kms:Encrypt permission added in the IAM IAM policy.

**Answer:** BC

#### NEW QUESTION 102

- (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 105

- (Exam Topic 1)

A security engineer has noticed that VPC Flow Logs are getting a lot REJECT traffic originating from a single Amazon EC2 instance in an Auto Scaling group. The security engineer is concerned that this EC2 instance may be compromised.

What immediate action should the security engineer take? What immediate action should the security engineer take?

- A. Remove the instance from the Auto Scaling group Close the security group mm ingress only from a single forensic IP address to perform an analysis.
- B. Remove the instance from the Auto Scaling group Change the network ACL rules to allow traffic only from a single forensic IP address to perform an analysis. Add a rule to deny all other traffic.
- C. Remove the instance from the Auto Scaling group Enable Amazon GuardDuty in that IAM account Install the Amazon Inspector agent on the suspicious EC2 instance to perform a scan.
- D. Take a snapshot of the suspicious EC2 instance
- E. Create a new EC2 instance from the snapshot in a closed security group with ingress only from a single forensic IP address to perform an analysis

**Answer: B**

#### NEW QUESTION 107

- (Exam Topic 1)

A Security Engineer creates an Amazon S3 bucket policy that denies access to all users. A few days later, the Security Engineer adds an additional statement to the bucket policy to allow read-only access to one other employee. Even after updating the policy the employee still receives an access denied message. What is the likely cause of this access denial?

- A. The ACL in the bucket needs to be updated.
- B. The IAM policy does not allow the user to access the bucket
- C. It takes a few minutes for a bucket policy to take effect
- D. The allow permission is being overridden by the deny.

**Answer: D**

#### NEW QUESTION 109

- (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 110

- (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](https://docs.IAM.amazon.com/directoryservice/latest/admin-guide/directory_microsoft_ad.html)

#### NEW QUESTION 112

- (Exam Topic 1)

A company's Security Engineer has been asked to monitor and report all IAM account root user activities. Which of the following would enable the Security Engineer to monitor and report all root user activities? (Select TWO)

- A. Configuring IAM Organizations to monitor root user API calls on the paying account
- B. Creating an Amazon CloudWatch Events rule that will trigger when any API call from the root user is reported

- C. Configuring Amazon Inspector to scan the IAM account for any root user activity
- D. Configuring IAM Trusted Advisor to send an email to the Security team when the root user logs in to the console
- E. Using Amazon SNS to notify the target group

**Answer:** BE

#### NEW QUESTION 116

- (Exam Topic 1)

A company has a compliance requirement to rotate its encryption keys on an annual basis. A Security Engineer needs a process to rotate the KMS Customer Master Keys (CMKs) that were created using imported key material.

How can the Engineer perform the key rotation process MOST efficiently?

- A. Create a new CMK, and redirect the existing Key Alias to the new CMK
- B. Select the option to auto-rotate the key
- C. Upload new key material into the existing CMK.
- D. Create a new CMK, and change the application to point to the new CMK

**Answer:** A

#### NEW QUESTION 120

- (Exam Topic 1)

A Security Engineer launches two Amazon EC2 instances in the same Amazon VPC but in separate Availability Zones. Each instance has a public IP address and is able to connect to external hosts on the internet. The two instances are able to communicate with each other by using their private IP addresses, but they are not able to communicate with each other when using their public IP addresses.

Which action should the Security Engineer take to allow communication over the public IP addresses?

- A. Associate the instances to the same security groups.
- B. Add 0.0.0.0/0 to the egress rules of the instance security groups.
- C. Add the instance IDs to the ingress rules of the instance security groups.
- D. Add the public IP addresses to the ingress rules of the instance security groups.

**Answer:** D

#### Explanation:

<https://docs.IAM.amazon.com/IAMEC2/latest/UserGuide/security-group-rules-reference.html#sg-rules-other-in>

#### NEW QUESTION 121

- (Exam Topic 2)

The Security Engineer created a new IAM Key Management Service (IAM KMS) key with the following key policy:

```
{
  "Effect": "Allow",
  "Principal": {"AWS": "arn:aws:iam::111122223333:root"},
  "Action": "kms:*";
  "Resource": "*"
}
```

What are the effects of the key policy? (Choose two.)

- A. The policy allows access for the IAM account 111122223333 to manage key access through IAM policies.
- B. The policy allows all IAM users in account 111122223333 to have full access to the KMS key.
- C. The policy allows the root user in account 111122223333 to have full access to the KMS key.
- D. The policy allows the KMS service-linked role in account 111122223333 to have full access to the KMS key.
- E. The policy allows all IAM roles in account 111122223333 to have full access to the KMS key.

**Answer:** AC

#### Explanation:

Giving the IAM account full access to the CMK does this; it enables you to use IAM policies to give IAM users and roles in the account access to the CMK. It does not by itself give any IAM users or roles access to the CMK, but it enables you to use IAM policies to do so.

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

#### NEW QUESTION 122

- (Exam Topic 2)

A company wants to control access to its IAM resources by using identities and groups that are defined in its existing Microsoft Active Directory.

What must the company create in its IAM account to map permissions for IAM services to Active Directory user attributes?

- A. IAM IAM groups
- B. IAM IAM users
- C. IAM IAM roles
- D. IAM IAM access keys

**Answer:** C

#### Explanation:

Prerequisites to establish Federation Services in IAM - You have a working AD directory and AD FS server. - You have created an identity provider (IdP) in your IAM account using your XML file from your AD FS server. Remember the name of your IdP because you will use it later in this solution. -You have created the appropriate IAM roles in your IAM account, which will be used for federated access.

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

#### NEW QUESTION 126

- (Exam Topic 2)

The Security Engineer implemented a new vault lock policy for 10TB of data and called initiate-vault-lock 12 hours ago. The Audit team identified a typo that is allowing incorrect access to the vault.

What is the MOST cost-effective way to correct this?

- A. Call the abort-vault-lock operation, fix the typo, and call the initiate-vault-lock again.
- B. Copy the vault data to Amazon S3, delete the vault, and create a new vault with the data.
- C. Update the policy, keeping the vault lock in place.
- D. Update the policy and call initiate-vault-lock again to apply the new policy.

**Answer:** A

#### Explanation:

Initiate the lock by attaching a vault lock policy to your vault, which sets the lock to an in-progress state and returns a lock ID. While in the in-progress state, you have 24 hours to validate your vault lock policy before the lock ID expires. Use the lock ID to complete the lock process. If the vault lock policy doesn't work as expected, you can abort the lock and restart from the beginning. For information on how to use the S3 Glacier API to lock a vault, see Locking a Vault by Using the Amazon S3 Glacier API. <https://docs.IAM.amazon.com/amazonglacier/latest/dev/vault-lock-policy.html>

#### NEW QUESTION 131

- (Exam Topic 2)

Your company has an EC2 Instance that is hosted in an IAM VPC. There is a requirement to ensure that logs files from the EC2 Instance are stored accordingly. The access should also be limited for the destination of the log files. How can this be accomplished? Choose 2 answers from the options given below. Each answer forms part of the solution

Please select:

- A. Stream the log files to a separate Cloudtrail trail
- B. Stream the log files to a separate Cloudwatch Log group
- C. Create an IAM policy that gives the desired level of access to the Cloudtrail trail
- D. Create an IAM policy that gives the desired level of access to the Cloudwatch Log group

**Answer:** BD

#### Explanation:

You can create a Log group and send all logs from the EC2 Instance to that group. You can then limit the access to the Log groups via an IAM policy.

Option A is invalid because Cloudtrail is used to record API activity and not for storing log files Option C is invalid because Cloudtrail is the wrong service to be used for this requirement

For more information on Log Groups and Log Streams, please visit the following URL:

\* <https://docs.IAM.amazon.com/AmazonCloudWatch/latest/logs/Working>

For more information on Access to Cloudwatch logs, please visit the following URL:

\* <https://docs.IAM.amazon.com/AmazonCloudWatch/latest/logs/auth-and-access-control-cwl.html>

The correct answers are: Stream the log files to a separate Cloudwatch Log group. Create an IAM policy that gives the desired level of access to the Cloudwatch Log group

Submit your Feedback/Queries to our Experts

#### NEW QUESTION 135

- (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 138

- (Exam Topic 2)

During a recent security audit, it was discovered that multiple teams in a large organization have placed restricted data in multiple Amazon S3 buckets, and the data may have been exposed. The auditor has requested that the organization identify all possible objects that contain personally identifiable information (PII) and then determine whether this information has been accessed.

What solution will allow the Security team to complete this request?

- A. Using Amazon Athena, query the impacted S3 buckets by using the PII query identifier function
- B. Then, create a new Amazon CloudWatch metric for Amazon S3 object access to alert when the objects are accessed.
- C. Enable Amazon Macie on the S3 buckets that were impacted, then perform data classification
- D. For identified objects that contain PII, use the research function for auditing IAM CloudTrail logs and S3 bucket logs for GET operations.
- E. Enable Amazon GuardDuty and enable the PII rule set on the S3 buckets that were impacted, then perform data classification
- F. Using the PII findings report from GuardDuty, query the S3 bucket logs by using Athena for GET operations.
- G. Enable Amazon Inspector on the S3 buckets that were impacted, then perform data classification
- H. For identified objects that contain PII, query the S3 bucket logs by using Athena for GET operations.

**Answer: B**

### NEW QUESTION 141

- (Exam Topic 2)

A company has enabled Amazon GuardDuty in all Regions as part of its security monitoring strategy. In one of the VPCs, the company hosts an Amazon EC2 instance working as an FTP server that is contacted by a high number of clients from multiple locations. This is identified by GuardDuty as a brute force attack due to the high number of connections that happen every hour.

The finding has been flagged as a false positive. However, GuardDuty keeps raising the issue. A Security Engineer has been asked to improve the signal-to-noise ratio. The Engineer needs to ensure that changes do not compromise the visibility of potential anomalous behavior.

How can the Security Engineer address the issue?

- A. Disable the FTP rule in GuardDuty in the Region where the FTP server is deployed
- B. Add the FTP server to a trusted IP list and deploy it to GuardDuty to stop receiving the notifications
- C. Use GuardDuty filters with auto archiving enabled to close the findings
- D. Create an IAM Lambda function that closes the finding whenever a new occurrence is reported

**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.

### NEW QUESTION 142

- (Exam Topic 2)

In response to the past DDoS attack experiences, a Security Engineer has set up an Amazon CloudFront distribution for an Amazon S3 bucket. There is concern that some users may bypass the CloudFront distribution and access the S3 bucket directly.

What must be done to prevent users from accessing the S3 objects directly by using URLs?

- A. Change the S3 bucket/object permission so that only the bucket owner has access.
- B. Set up a CloudFront origin access identity (OAI), and change the S3 bucket/object permission so that only the OAI has access.
- C. Create IAM roles for CloudFront, and change the S3 bucket/object permission so that only the IAM role has access.
- D. Redirect S3 bucket access to the corresponding CloudFront distribution.

**Answer:** B

**Explanation:**

<https://docs.IAM.amazon.com/AmazonCloudFront/latest/DeveloperGuide/private-content-restricting-access-to-s>

**NEW QUESTION 147**

- (Exam Topic 2)

The Security Engineer has discovered that a new application that deals with highly sensitive data is storing Amazon S3 objects with the following key pattern, which itself contains highly sensitive data.

Pattern: "randomID\_datestamp\_PII.csv" Example:

"1234567\_12302017\_000-00-0000 csv"

The bucket where these objects are being stored is using server-side encryption (SSE). Which solution is the most secure and cost-effective option to protect the sensitive data?

- A. Remove the sensitive data from the object name, and store the sensitive data using S3 user-defined metadata.
- B. Add an S3 bucket policy that denies the action s3:GetObject
- C. Use a random and unique S3 object key, and create an S3 metadata index in Amazon DynamoDB using client-side encrypted attributes.
- D. Store all sensitive objects in Binary Large Objects (BLOBS) in an encrypted Amazon RDS instance.

**Answer:** C

**Explanation:**

<https://docs.IAM.amazon.com/AmazonS3/latest/dev/UsingMetadata.html> <https://IAM.amazon.com/blogs/database/best-practices-for-securing-sensitive-data-in-IAM-data-stores/>

**NEW QUESTION 149**

- (Exam Topic 2)

An organization has three applications running on IAM, each accessing the same data on Amazon S3. The data on Amazon S3 is server-side encrypted by using an IAM KMS Customer Master Key (CMK).

What is the recommended method to ensure that each application has its own programmatic access control permissions on the KMS CMK?

- A. Change the key policy permissions associated with the KMS CMK for each application when it must access the data in Amazon S3.
- B. Have each application assume an IAM role that provides permissions to use the IAM Certificate Manager CMK.
- C. Have each application use a grant on the KMS CMK to add or remove specific access controls on the KMS CMK.
- D. Have each application use an IAM policy in a user context to have specific access permissions on the KMS CMK.

**Answer:** C

**NEW QUESTION 154**

- (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 159**

- (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](https://docs.IAM.amazon.com/organizations/latest/userguide/orgs_manage_policies.html)

**NEW QUESTION 161**

- (Exam Topic 2)

Which of the following is the most efficient way to automate the encryption of IAM CloudTrail logs using a Customer Master Key (CMK) in IAM KMS?

- A. Use the KMS direct encrypt function on the log data every time a CloudTrail log is generated.
- B. Use the default Amazon S3 server-side encryption with S3-managed keys to encrypt and decrypt the CloudTrail logs.
- C. Configure CloudTrail to use server-side encryption using KMS-managed keys to encrypt and decrypt CloudTrail logs.
- D. Use encrypted API endpoints so that all IAM API calls generate encrypted CloudTrail log entries using the TLS certificate from the encrypted API call.

**Answer:** C

**Explanation:**

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

**NEW QUESTION 163**

- (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 164**

- (Exam Topic 2)

For compliance reasons, an organization limits the use of resources to three specific IAM regions. It wants to be alerted when any resources are launched in unapproved regions.

Which of the following approaches will provide alerts on any resources launched in an unapproved region?

- A. Develop an alerting mechanism based on processing IAM CloudTrail logs.
- B. Monitor Amazon S3 Event Notifications for objects stored in buckets in unapproved regions.
- C. Analyze Amazon CloudWatch Logs for activities in unapproved regions.
- D. Use IAM Trusted Advisor to alert on all resources being created.

**Answer:** A

**Explanation:**

<https://stackoverflow.com/questions/45449053/cloudwatch-alert-on-any-instance-creation>

**NEW QUESTION 165**

- (Exam Topic 2)

A company is using CloudTrail to log all IAM API activity for all regions in all of its accounts. The CISO has asked that additional steps be taken to protect the integrity of the log files.

What combination of steps will protect the log files from intentional or unintentional alteration? Choose 2 answers from the options given below  
Please select:

- A. Create an S3 bucket in a dedicated log account and grant the other accounts write only access
- B. Deliver all log files from every account to this S3 bucket.
- C. Write a Lambda function that queries the Trusted Advisor Cloud Trail check
- D. Run the function every 10 minutes.
- E. Enable CloudTrail log file integrity validation
- F. Use Systems Manager Configuration Compliance to continually monitor the access policies of S3 buckets containing Cloud Trail logs.
- G. Create a Security Group that blocks all traffic except calls from the CloudTrail service
- H. Associate the security group with) all the Cloud Trail destination S3 buckets.

**Answer:** AC

**Explanation:**

The IAM Documentation mentions the following

To determine whether a log file was modified, deleted, or unchanged after CloudTrail delivered it you can use CloudTrail log file integrity validation. This feature is built using industry standard algorithms: SHA-256 for hashing and SHA-256 with RSA for digital signing. This makes it computationally infeasible to modify, delete or forge CloudTrail log files without detection.

Option B is invalid because there is no such thing as Trusted Advisor Cloud Trail checks Option D is invalid because Systems Manager cannot be used for this purpose.

Option E is invalid because Security Groups cannot be used to block calls from other services For more information on Cloudtrail log file validation, please visit the below URL:

<https://docs.IAM.amazon.com/IAMcloudtrail/latest/userguide/cloudtrail-loc-file-validation-intro.html> For more information on delivering Cloudtrail logs from multiple accounts, please visit the below URL:  
<https://docs.IAM.amazon.com/IAMcloudtrail/latest/userguide/cloudtrail-receive-logs-from-multiple-accounts.html>  
The correct answers are: Create an S3 bucket in a dedicated log account and grant the other accounts write only access. Deliver all log files from every account to this S3 bucket, Enable Cloud Trail log file integrity validation  
Submit your Feedback/Queries to our Experts

#### NEW QUESTION 168

- (Exam Topic 2)

What is the function of the following IAM Key Management Service (KMS) key policy attached to a customer master key (CMK)?

```
{
  "Effect": "Allow",
  "Principal": {
    "AWS": "arn:aws:iam::111122223333:user/ExampleUser"
  },
  "Action": [
    "kms:Encrypt",
    "kms:Decrypt",
    "kms:GenerateDataKey*",
    "kms:CreateGrant",
    "kms:ListGrants"
  ],
  "Resource": "*",
  "Condition": {
    "StringEquals": {
      "kms:ViaService": [
        "workmail.us-west-2.amazonaws.com",
        "ses.us-west-2.amazonaws.com"
      ]
    }
  }
}
```

- A. The Amazon WorkMail and Amazon SES services have delegated KMS encrypt and decrypt permissions to the ExampleUser principal in the 111122223333 account.
- B. The ExampleUser principal can transparently encrypt and decrypt email exchanges specifically between ExampleUser and IAM.
- C. The CMK is to be used for encrypting and decrypting only when the principal is ExampleUser and the request comes from WorkMail or SES in the specified region.
- D. The key policy allows WorkMail or SES to encrypt or decrypt on behalf of the user for any CMK in the account.

**Answer:** C

#### NEW QUESTION 170

- (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 design 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 Care 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.amazon.com/cloudhsm/faq>:

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

#### NEW QUESTION 174

- (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 176

- (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 180

- (Exam Topic 2)

A company has contracted with a third party to audit several IAM accounts. To enable the audit, cross-account IAM roles have been created in each account targeted for audit. The Auditor is having trouble accessing some of the accounts.

Which of the following may be causing this problem? (Choose three.)

- A. The external ID used by the Auditor is missing or incorrect.
- B. The Auditor is using the incorrect password.
- C. The Auditor has not been granted sts:AssumeRole for the role in the destination account.
- D. The Amazon EC2 role used by the Auditor must be set to the destination account role.
- E. The secret key used by the Auditor is missing or incorrect.
- F. The role ARN used by the Auditor is missing or incorrect.

**Answer:** ACF

#### Explanation:

Using IAM to grant access to a Third-Party Account 1) Create a role to provide access to the require resources 1.1) Create a role policy that specifies the IAM Account ID to be accessed, "sts:AssumeRole" as action, and "sts:ExternalID" as condition 1.2) Create a role using the role policy just created 1.3) Assign a resource policy to the role. This will provide permission to access resource ARNs to the auditor 2) Repeat steps 1 and 2 on all IAM accounts 3) The auditor connects to the IAM account IAM Security Token Service (STS). The auditor must provide its ExternalID from step 1.2, the ARN of the role he is trying to assume from step 1.3, sts:ExternalID 4) STS provide the auditor with temporary credentials that provides the role access from step 1

[https://docs.IAM.amazon.com/IAM/latest/UserGuide/id\\_roles\\_create\\_for-user\\_externalid.html](https://docs.IAM.amazon.com/IAM/latest/UserGuide/id_roles_create_for-user_externalid.html)

<https://IAM.amazon.com/blogs/security/how-to-audit-cross-account-roles-using-IAM-cloudtrail-and-amazon-clo>

#### NEW QUESTION 184

- (Exam Topic 2)

An application has been written that publishes custom metrics to Amazon CloudWatch. Recently, IAM changes have been made on the account and the metrics are no longer being reported.

Which of the following is the LEAST permissive solution that will allow the metrics to be delivered?

- A. Add a statement to the IAM policy used by the application to allow logs:putLogEvents and logs:createLogStream
- B. Modify the IAM role used by the application by adding the CloudWatchFullAccess managed policy.
- C. Add a statement to the IAM policy used by the application to allow cloudwatch:putMetricData.
- D. Add a trust relationship to the IAM role used by the application for cloudwatch.amazonaws.com.

**Answer:** C

#### Explanation:

<https://docs.IAM.amazon.com/AmazonCloudWatch/latest/monitoring/permissions-reference-cw.html>

#### NEW QUESTION 185

- (Exam Topic 2)

The Information Technology department has stopped using Classic Load Balancers and switched to Application Load Balancers to save costs. After the switch, some users on older devices are no longer able to connect to the website.

What is causing this situation?

- A. Application Load Balancers do not support older web browsers.
- B. The Perfect Forward Secrecy settings are not configured correctly.
- C. The intermediate certificate is installed within the Application Load Balancer.
- D. The cipher suites on the Application Load Balancers are blocking connections.

**Answer:** D

#### Explanation:

<https://docs.IAM.amazon.com/elasticloadbalancing/latest/application/create-https-listener.html>

#### NEW QUESTION 190

- (Exam Topic 2)

A Lambda function reads metadata from an S3 object and stores the metadata in a DynamoDB table. The function is triggered whenever an object is stored within the S3 bucket.

How should the Lambda function be given access to the DynamoDB table? Please select:

- A. Create a VPC endpoint for DynamoDB within a VP
- B. Configure the Lambda function to access resources in the VPC.
- C. Create a resource policy that grants the Lambda function permissions to write to the DynamoDB table. Attach the poll to the DynamoDB table.
- D. Create an IAM user with permissions to write to the DynamoDB tabl
- E. Store an access key for that user in the Lambda environment variables.
- F. Create an IAM service role with permissions to write to the DynamoDB tabl
- G. Associate that role with the Lambda function.

**Answer:** D

#### Explanation:

The ideal way is to create an IAM role which has the required permissions and then associate it with the Lambda function

The IAM Documentation additionally mentions the following

Each Lambda function has an IAM role (execution role) associated with it. You specify the IAM role when you create your Lambda function. Permissions you grant to this role determine what IAM Lambda can do when it assumes the role. There are two types of permissions that you grant to the IAM role:

If your Lambda function code accesses other IAM resources, such as to read an object from an S3 bucket or write logs to CloudWatch Logs, you need to grant permissions for relevant Amazon S3 and CloudWatch actions to the role.

If the event source is stream-based (Amazon Kinesis Data Streams and DynamoDB streams), IAM Lambda polls these streams on your behalf. IAM Lambda needs permissions to poll the stream and read new records on the stream so you need to grant the relevant permissions to this role.

Option A is invalid because the VPC endpoint allows access instances in a private subnet to access DynamoDB

Option B is invalid because resources policies are present for resources such as S3 and KMS, but not IAM Lambda

Option C is invalid because IAM Roles should be used and not IAM Users

For more information on the Lambda permission model, please visit the below URL: <https://docs.IAM.amazon.com/lambda/latest/dg/intro-permission-model.html>

The correct answer is: Create an IAM service role with permissions to write to the DynamoDB table. Associate that role with the Lambda function.

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#### NEW QUESTION 195

- (Exam Topic 2)

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

Which combination of steps can the Engineer take to protect the credentials and minimize downtime when the credentials are rotated? (Choose two.)

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

**Answer:** CE

#### NEW QUESTION 199

- (Exam Topic 2)

A Security Engineer must add additional protection to a legacy web application by adding the following HTTP security headers:

- Content Security-Policy
- X-Frame-Options
- X-XSS-Protection

The Engineer does not have access to the source code of the legacy web application. Which of the following approaches would meet this requirement?

- A. Configure an Amazon Route 53 routing policy to send all web traffic that does not include the required headers to a black hole.
- B. Implement an IAM Lambda@Edge origin response function that inserts the required headers.
- C. Migrate the legacy application to an Amazon S3 static website and front it with an Amazon CloudFront distribution.
- D. Construct an IAM WAF rule to replace existing HTTP headers with the required security headers by using regular expressions.

**Answer:** B

#### NEW QUESTION 200

- (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 204**

- (Exam Topic 2)

An IAM account includes two S3 buckets: bucket1 and bucket2. The bucket2 does not have a policy defined, but bucket1 has the following bucket policy:

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Principal": { "AWS": "arn:aws:iam: : 123456789012: user/alice" },
      "Action": "s3:*",
      "Resource": [ "arn:aws:s3: : bucket1", "arn:aws:s3: : bucket1/*" ]
    }
  ]
}
```

In addition, the same account has an IAM User named “alice”, with the following IAM policy.

```
{
  "Version": "2012-10-17",
  "Statement": [{
    "Effect": "Allow",
    "Action": "s3:*",
    "Resource": [ "arn:aws:s3: : bucket2", "arn:aws:s3: : bucket2/*" ]
  }]
}
```

Which buckets can user “alice” access?

- A. Bucket1 only
- B. Bucket2 only
- C. Both bucket1 and bucket2
- D. Neither bucket1 nor bucket2

**Answer:** C

**Explanation:**

Both S3 policies and IAM policies can be used to grant access to buckets. IAM policies specify what actions are allowed or denied on what IAM resources (e.g. allow ec2:TerminateInstance on the EC2 instance with instance\_id=i-8b3620ec). You attach IAM policies to IAM users, groups, or roles, which are then subject to the permissions you’ve defined. In other words, IAM policies define what a principal can do in your IAM environment. S3 bucket policies, on the other hand, are attached only to S3 buckets. S3 bucket policies specify what actions are allowed or denied for which principals on the bucket that the bucket policy is attached to (e.g. allow user Alice to PUT but not DELETE objects in the bucket).

<https://IAM.amazon.com/blogs/security/iam-policies-and-bucket-policies-and-acls-oh-my-controlling-access-to>

**NEW QUESTION 209**

- (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/useruide/how-cloudtrail-works.html>

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

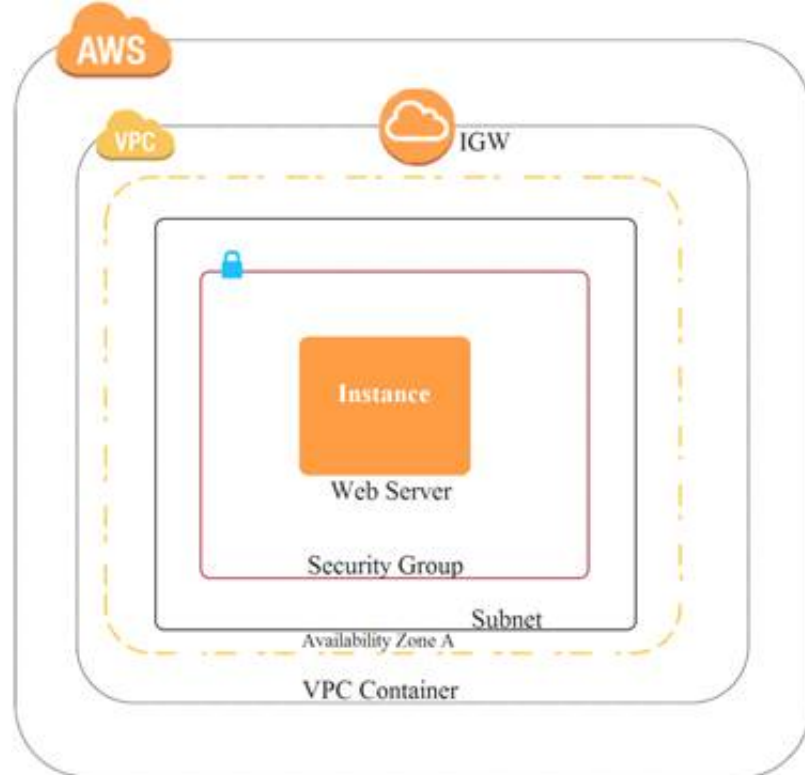
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#### NEW QUESTION 214

- (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 bucket
- 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 218

- (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](https://docs.IAM.amazon.com/guardduty/latest/ug/guardduty_upload_lists.html)

#### 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 224

- (Exam Topic 2)

Due to new compliance requirements, a Security Engineer must enable encryption with customer-provided keys on corporate data that is stored in DynamoDB. The company wants to retain full control of the encryption keys.

Which DynamoDB feature should the Engineer use to achieve compliance'?

- A. Use IAM Certificate Manager to request a certificat
- B. Use that certificate to encrypt data prior to uploading it to DynamoDB.
- C. Enable S3 server-side encryption with the customer-provided key
- D. Upload the data to Amazon S3, and then use S3Copy to move all data to DynamoDB
- E. Create a KMS master ke
- F. Generate per-record data keys and use them to encrypt data prior to uploading it to DynamoD
- G. Dispose of the cleartext and encrypted data keys after encryption without storing.
- H. Use the DynamoDB Java encryption client to encrypt data prior to uploading it to DynamoDB.

**Answer:** D

#### Explanation:

Follow the link:

<https://docs.IAM.amazon.com/dynamodb-encryption-client/latest/devguide/what-is-ddb-encrypt.html>

#### NEW QUESTION 229

- (Exam Topic 2)

Your company has a set of resources defined in the IAM Cloud. Their IT audit department has requested to get a list of resources that have been defined across the account. How can this be achieved in the easiest manner?

Please select:

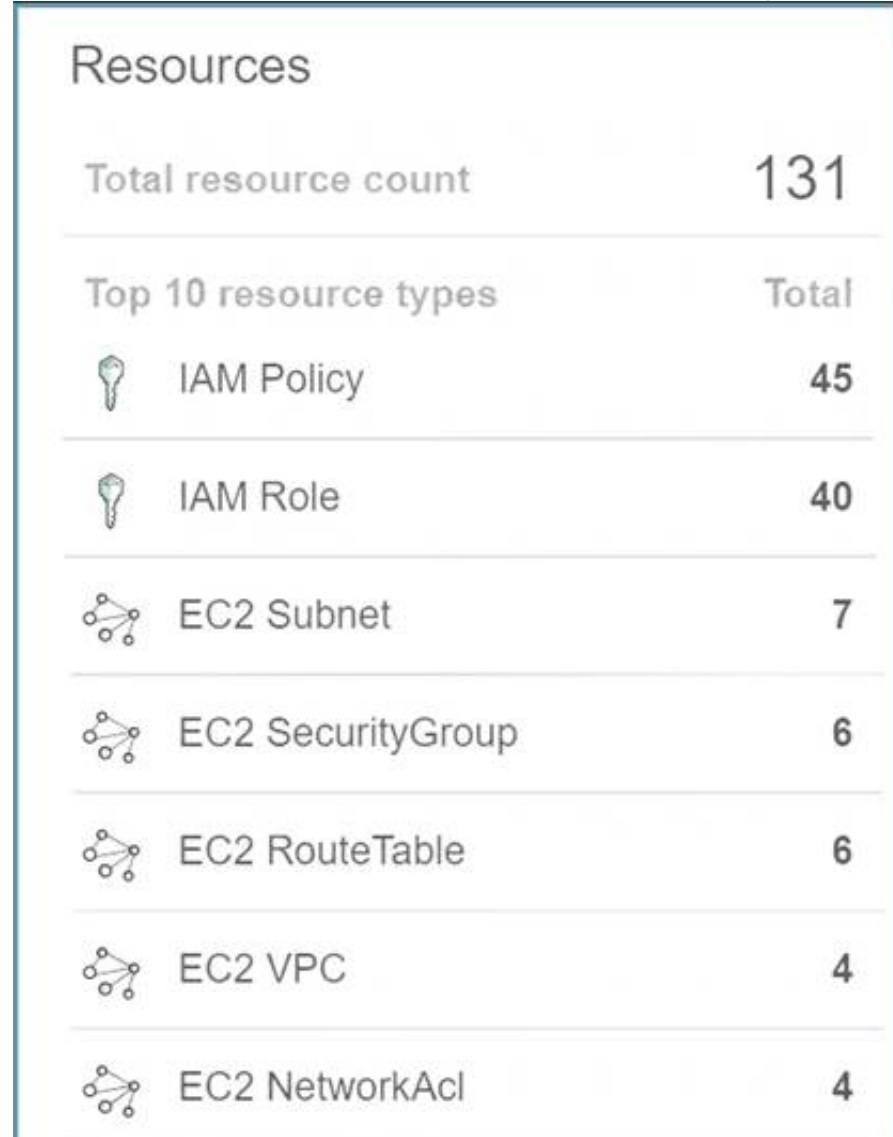
- A. Create a powershell script using the IAM CL
- B. Query for all resources with the tag of production.
- C. Create a bash shell script with the IAM CL
- D. Query for all resources in all region
- E. Store the results in an S3 bucket.
- F. Use Cloud Trail to get the list of all resources
- G. Use IAM Config to get the list of all resources








**Answer:** D

#### Explanation:

The most feasible option is to use IAM Config. When you turn on IAM Config, you will get a list of resources defined in your IAM Account.

A sample snapshot of the resources dashboard in IAM Config is shown below C:\Users\wk\Desktop\mudassar\Untitled.jpg



| Resources   |       |
|---|-------|
| Total resource count  | 131   |
| Top 10 resource types   | Total |
|  IAM Policy        | 45    |
|  IAM Role          | 40    |
|  EC2 Subnet        | 7     |
|  EC2 SecurityGroup | 6     |
|  EC2 RouteTable    | 6     |
|  EC2 VPC           | 4     |
|  EC2 NetworkAcl    | 4     |

Option A is incorrect because this would give the list of production based resources and now all resources Option B is partially correct But this will just add more maintenance overhead.

Option C is incorrect because this can be used to log API activities but not give an account of all resou For more information on IAM Config, please visit the below URL: <https://docs.IAM.amazon.com/config/latest/developereuide/how-does-confie-work.html>

The correct answer is: Use IAM Config to get the list of all resources

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#### NEW QUESTION 233

- (Exam Topic 2)

You have an EC2 Instance in a private subnet which needs to access the KMS service. Which of the following methods can help fulfil this requirement, keeping security in perspective  
Please select:

- A. Use a VPC endpoint
- B. Attach an Internet gateway to the subnet
- C. Attach a VPN connection to the VPC
- D. Use VPC Peering

**Answer:** A

**Explanation:**

The IAM Documentation mentions the following

You can connect directly to IAM KMS through a private endpoint in your VPC instead of connecting over the internet. When you use a VPC endpoint communication between your VPC and IAM KMS is conducted entirely within the IAM network.

Option B is invalid because this could open threats from the internet

Option C is invalid because this is normally used for communication between on-premise environments and IAM.

Option D is invalid because this is normally used for communication between VPCs

For more information on accessing KMS via an endpoint, please visit the following URL <https://docs.IAM.amazon.com/kms/latest/developerguide/kms-vpc-endpoint.html>

The correct answer is: Use a VPC endpoint Submit your Feedback/Queries to our Experts

**NEW QUESTION 235**

- (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.amazonaws.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 236**

- (Exam Topic 2)

A company uses user data scripts that contain sensitive information to bootstrap Amazon EC2 instances. A Security Engineer discovers that this sensitive information is viewable by people who should not have access to it.

What is the MOST secure way to protect the sensitive information used to bootstrap the instances?

- A. Store the scripts in the AMI and encrypt the sensitive data using IAM KMS Use the instance role profile to control access to the KMS keys needed to decrypt the data.
- B. Store the sensitive data in IAM Systems Manager Parameter Store using the encrypted string parameter and assign the GetParameters permission to the EC2 instance role.
- C. Externalize the bootstrap scripts in Amazon S3 and encrypt them using IAM KM
- D. Remove the scripts from the instance and clear the logs after the instance is configured.
- E. Block user access of the EC2 instance's metadata service using IAM policie
- F. Remove all scripts and clear the logs after execution.

**Answer:** B

**NEW QUESTION 241**

- (Exam Topic 2)

You are hosting a web site via website hosting on an S3 bucket - <http://demo.s3-website-us-east-1.amazonaws.com>.

You have some web pages that use Javascript that access resources in another bucket which has web site hosting also enabled. But when users access the web pages , they are getting a blocked Javascript error. How can you rectify this?

Please select:

- A. Enable CORS for the bucket
- B. Enable versioning for the bucket
- C. Enable MFA for the bucket
- D. Enable CRR for the bucket

**Answer:** A

**Explanation:**

Your answer is incorrect Answer-A

Such a scenario is also given in the IAM Documentation Cross-Origin Resource Sharing: Use-case Scenarios The following are example scenarios for using CORS:

- Scenario 1: Suppose that you are hosting a website in an Amazon S3 bucket named website as described in Hosting a Static Website on Amazon S3. Your users load the website endpoint <http://website.s3-website-us-east-1.amazonaws.com>. Now you want to use JavaScript on the webpages that are stored in this bucket to be able to make authenticated GET and PUT requests against the same bucket by using the Amazon S3 API endpoint for the bucket [website.s3.amazonaws.com](http://website.s3.amazonaws.com). A browser would normally block JavaScript from allowing those requests, but with CORS you can configure your bucket to explicitly enable cross-origin requests from [website.s3-website-us-east-1.amazonaws.com](http://website.s3-website-us-east-1.amazonaws.com).
- Scenario 2: Suppose that you want to host a web font from your S3 bucket. Again, browsers require a CORS check (also called a preflight check) for loading web

fonts. You would configure the bucket that is hosting the web font to allow any origin to make these requests.

Option B is invalid because versioning is only to create multiple versions of an object and can help in accidental deletion of objects

Option C is invalid because this is used as an extra measure of caution for deletion of objects Option D is invalid because this is used for Cross region replication of objects

For more information on Cross Origin Resource sharing, please visit the following URL

- <https://docs.IAM.amazon.com/AmazonS3/latest/dev/cors.html> The correct answer is: Enable CORS for the bucket

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#### NEW QUESTION 243

- (Exam Topic 2)

A Systems Engineer has been tasked with configuring outbound mail through Simple Email Service (SES) and requires compliance with current TLS standards.

The mail application should be configured to connect to which of the following endpoints and corresponding ports?

- A. email.us-east-1.amazonIAM.com over port 8080
- B. email-pop3.us-east-1.amazonIAM.com over port 995
- C. email-smtp.us-east-1.amazonIAM.com over port 587
- D. email-imap.us-east-1.amazonIAM.com over port 993

**Answer:** C

**Explanation:**

<https://docs.IAM.amazon.com/ses/latest/DeveloperGuide/smtp-connect.html>

#### NEW QUESTION 248

- (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 249

- (Exam Topic 2)

A company stores data on an Amazon EBS volume attached to an Amazon EC2 instance. The data is asynchronously replicated to an Amazon S3 bucket. Both the EBS volume and the S3 bucket are encrypted

with the same IAM KMS Customer Master Key (CMK). A former employee scheduled a deletion of that CMK before leaving the company.

The company's Developer Operations department learns about this only after the CMK has been deleted. Which steps must be taken to address this situation?

- A. Copy the data directly from the EBS encrypted volume before the volume is detached from the EC2 instance.
- B. Recover the data from the EBS encrypted volume using an earlier version of the KMS backing key.
- C. Make a request to IAM Support to recover the S3 encrypted data.
- D. Make a request to IAM Support to restore the deleted CMK, and use it to recover the data.

**Answer:** A

**Explanation:**

<https://docs.IAM.amazon.com/kms/latest/developerguide/deleting-keys.html#deleting-keys-how-it-works>

#### NEW QUESTION 251

- (Exam Topic 2)

An organization is using Amazon CloudWatch Logs with agents deployed on its Linux Amazon EC2 instances. The agent configuration files have been checked and the application log files to be pushed are configured correctly. A review has identified that logging from specific instances is missing.

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

- A. Use an EC2 run command to confirm that the "IAMlogs" service is running on all instances.
- B. Verify that the permissions used by the agent allow creation of log groups/streams and to put log events.
- C. Check whether any application log entries were rejected because of invalid time stamps by reviewing `/var/cwlogs/rejects.log`.
- D. Check that the trust relationship grants the service "cwlogs.amazonaws.com" permission to write objects to the Amazon S3 staging bucket.
- E. Verify that the time zone on the application servers is in UTC.

**Answer:** AB

**Explanation:**

EC2 run command - can run scripts, install software, collect metrics and log files, manage patches and more. Bringing these two services together - can create CloudWatch Events rules that use EC2 Run Command to perform actions on EC2 instances or on-premises servers.

#### NEW QUESTION 254

- (Exam Topic 2)

Which of the following is used as a secure way to log into an EC2 Linux Instance? Please select:

- A. IAM User name and password
- B. Key pairs
- C. IAM Access keys
- D. IAM SDK keys

**Answer:** B

**Explanation:**

The IAM Documentation mentions the following

Key pairs consist of a public key and a private key. You use the private key to create a digital signature, and then IAM uses the corresponding public key to validate the signature. Key pairs are used only for Amazon EC2 and Amazon CloudFront.

Option A.C and D are all wrong because these are not used to log into EC2 Linux Instances For more information on IAM Security credentials, please visit the below URL: <https://docs.IAM.amazon.com/eeneral/latest/er/IAM-sec-cred-types.html>

The correct answer is: Key pairs

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**NEW QUESTION 257**

- (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 258**

- (Exam Topic 2)

A Developer's laptop was stolen. The laptop was not encrypted, and it contained the SSH key used to access multiple Amazon EC2 instances. A Security Engineer has verified that the key has not been used, and has blocked port 22 to all EC2 instances while developing a response plan.

How can the Security Engineer further protect currently running instances?

- A. Delete the key-pair key from the EC2 console, then create a new key pair.
- B. Use the modify-instance-attribute API to change the key on any EC2 instance that is using the key.
- C. Use the EC2 RunCommand to modify the authorized\_keys file on any EC2 instance that is using the key.
- D. Update the key pair in any AMI used to launch the EC2 instances, then restart the EC2 instances.

**Answer:** C

**NEW QUESTION 259**

- (Exam Topic 2)

A company wants to have an Intrusion detection system available for their VPC in IAM. They want to have complete control over the system. Which of the following would be ideal to implement?

Please select:

- A. Use IAM WAF to catch all intrusions occurring on the systems in the VPC
- B. Use a custom solution available in the IAM Marketplace
- C. Use VPC Flow logs to detect the issues and flag them accordingly.
- D. Use IAM Cloudwatch to monitor all traffic

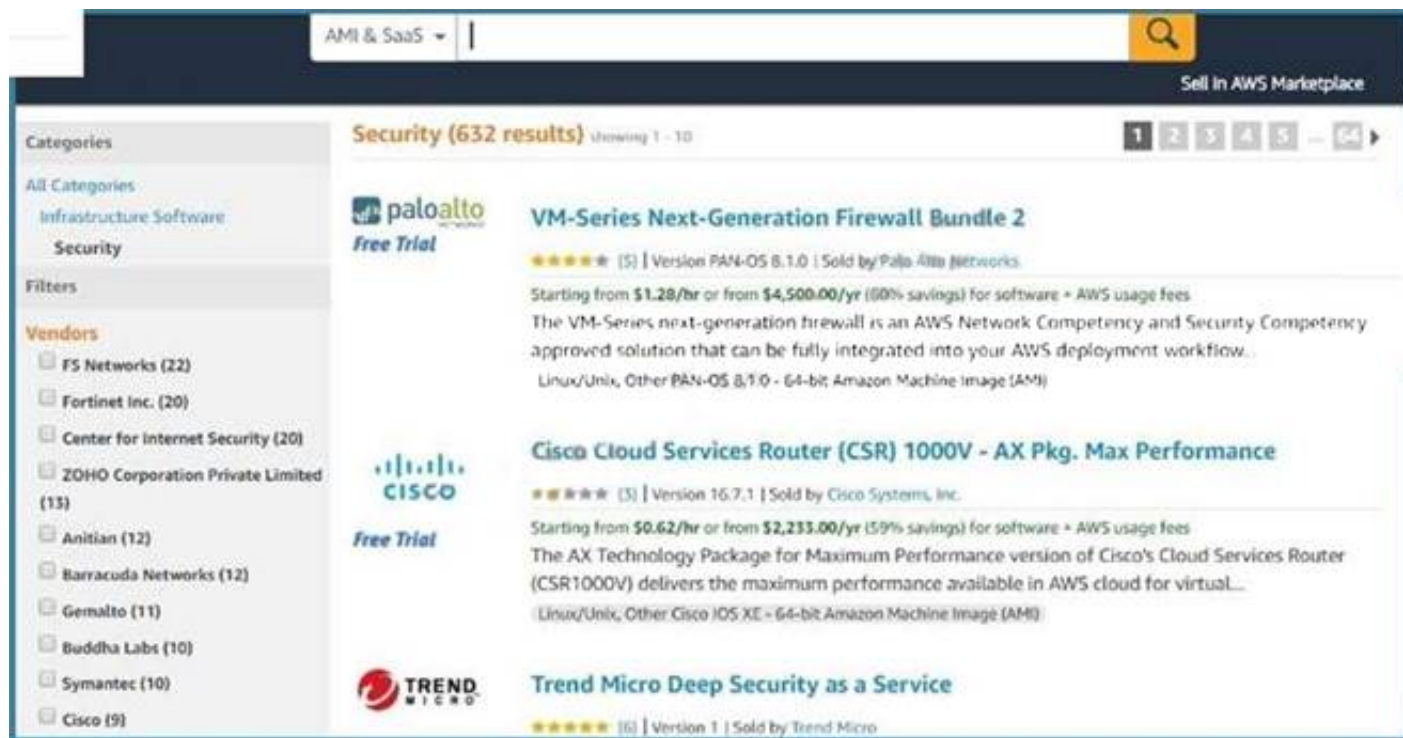
**Answer:** B

**Explanation:**

Sometimes companies want to have custom solutions in place for monitoring Intrusions to their systems. In such a case, you can use the IAM Marketplace for looking at custom solutions.

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





Option A, C and D are all invalid because they cannot be used to conduct intrusion detection or prevention. For more information on using custom security solutions please visit the below URL [https://d1.IAMstatic.com/Marketplace/security/IAMMP\\_Security\\_Solution%20Overview.pdf](https://d1.IAMstatic.com/Marketplace/security/IAMMP_Security_Solution%20Overview.pdf)

For more information on using custom security solutions please visit the below URL: [https://d1.IAMstatic.com/Marketplace/security/IAMMP\\_Security\\_Solution%20Overview.pdf](https://d1.IAMstatic.com/Marketplace/security/IAMMP_Security_Solution%20Overview.pdf)

The correct answer is: Use a custom solution available in the IAM Marketplace Submit your Feedback/Queries to our Experts

#### NEW QUESTION 264

- (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 policies
- 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 data
- 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/MKeyManagementServiceKeyManagementService>

#### NEW QUESTION 267

- (Exam Topic 2)

When you enable automatic key rotation for an existing CMK key where the backing key is managed by IAM, after how long is the key rotated?

Please select:

- A. After 30 days
- B. After 128 days
- C. After 365 days
- D. After 3 years

**Answer: D**

#### Explanation:

The IAM Documentation states the following

- IAM managed CMKs: You cannot manage key rotation for IAM managed CMKs. IAM KMS automatically rotates IAM managed keys every three years (1095 days).

Note: IAM-managed CMKs are rotated every 3yrs, Customer-Managed CMKs are rotated every 365-days from when rotation is enabled.

Option A, B, C are invalid because the settings for automatic key rotation is not changeable. For more information on key rotation please visit the below URL

<https://docs.IAM.amazon.com/kms/latest/developereuide/rotate-keys.html>

IAM managed CMKs are CMKs in your account that are created, managed, and used on your behalf by an IAM service that is integrated with IAM KMS. This CMK is unique to your IAM account and region. Only the service that created the IAM managed CMK can use it

You can login to your IAM dashboard. Click on "Encryption Keys"

You will find the list based on the services you are using as follows:

- IAM/elasticfilesystem 1 IAM/light sail
- IAM/s3
- IAM/rds and many more Detailed Guide: KMS

You can recognize IAM managed CMKs because their aliases have the format IAM/service-name, such as IAM/redshift. Typically, a service creates its IAM managed CMK in your account when you set up the service or the first time you use the CMK

The IAM services that integrate with IAM KMS can use it in many different ways. Some services create IAM managed CMKs in your account. Other services require that you specify a customer managed CMK that you have created. And, others support both types of CMKs to allow you the ease of an IAM managed CMK or the control of a customer-managed CMK

Rotation period for CMKs is as follows:

- IAM managed CMKs: 1095 days
- Customer managed CMKs: 365 days

Since question mentions about "CMK where backing keys is managed by IAM", its Amazon(IAM) managed and its rotation period turns out to be 1095 days(every 3 years)

For more details, please check below IAM Docs: <https://docs.IAM.amazon.com/kms/latest/developerguide/concepts.html> The correct answer is: After 3 years  
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#### NEW QUESTION 268

- (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

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#### NEW QUESTION 270

- (Exam Topic 2)

The Security Engineer is managing a web application that processes highly sensitive personal information. The application runs on Amazon EC2. The application has strict compliance requirements, which instruct that all incoming traffic to the application is protected from common web exploits and that all outgoing traffic from the EC2 instances is restricted to specific whitelisted URLs.

Which architecture should the Security Engineer use to meet these requirements?

- A. Use IAM Shield to scan inbound traffic for web exploit
- B. Use VPC Flow Logs and IAM Lambda to restrict egress traffic to specific whitelisted URLs.
- C. Use IAM Shield to scan inbound traffic for web exploit
- D. Use a third-party IAM Marketplace solution to restrict egress traffic to specific whitelisted URLs.
- E. Use IAM WAF to scan inbound traffic for web exploit
- F. Use VPC Flow Logs and IAM Lambda to restrict egress traffic to specific whitelisted URLs.
- G. Use IAM WAF to scan inbound traffic for web exploit
- H. Use a third-party IAM Marketplace solution to restrict egress traffic to specific whitelisted URLs.

**Answer:** D

#### Explanation:

IAM Shield is mainly for DDos Attacks.IAM WAF is mainly for some other types of attacks like Injection and XSS etcIn this scenario, It seems it is WAF functionality that is needed.VPC logs do show the source and destination IP and Port , they never show any URL .. because URL are level 7 while VPC are concerned about lower network levels.

<https://docs.IAM.amazon.com/vpc/latest/userguide/flow-logs.html>

#### NEW QUESTION 272

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