

Exam Questions SCS-C01

AWS Certified Security- Specialty

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NEW QUESTION 1

- (Exam Topic 1)

A company has an encrypted Amazon S3 bucket. An Application Developer has an IAM policy that allows access to the S3 bucket, but the Application Developer is unable to access objects within the bucket.

What is a possible cause of the issue?

- A. The S3 ACL for the S3 bucket fails to explicitly grant access to the Application Developer
- B. The AWS KMS key for the S3 bucket fails to list the Application Developer as an administrator
- C. The S3 bucket policy fails to explicitly grant access to the Application Developer
- D. The S3 bucket policy explicitly denies access to the Application Developer

Answer: C

NEW QUESTION 2

- (Exam Topic 1)

A company wants to encrypt the private network between its on-premises environment and AWS. The company also wants a consistent network experience for its employees.

What should the company do to meet these requirements?

- A. Establish an AWS Direct Connect connection with AWS and set up a Direct Connect gateway
- B. In the Direct Connect gateway configuration, enable IPsec and BGP, and then leverage native AWS network encryption between Availability Zones and Regions,
- C. Establish an AWS Direct Connect connection with AWS and set up a Direct Connect gateway
- D. Using the Direct Connect gateway, create a private virtual interface and advertise the customer gateway private IP address
- E. Create a VPN connection using the customer gateway and the virtual private gateway
- F. Establish a VPN connection with the AWS virtual private cloud over the internet
- G. Establish an AWS Direct Connect connection with AWS and establish a public virtual interface
- H. For prefixes that need to be advertised, enter the customer gateway public IP address
- I. Create a VPN connection over Direct Connect using the customer gateway and the virtual private gateway.

Answer: C

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.

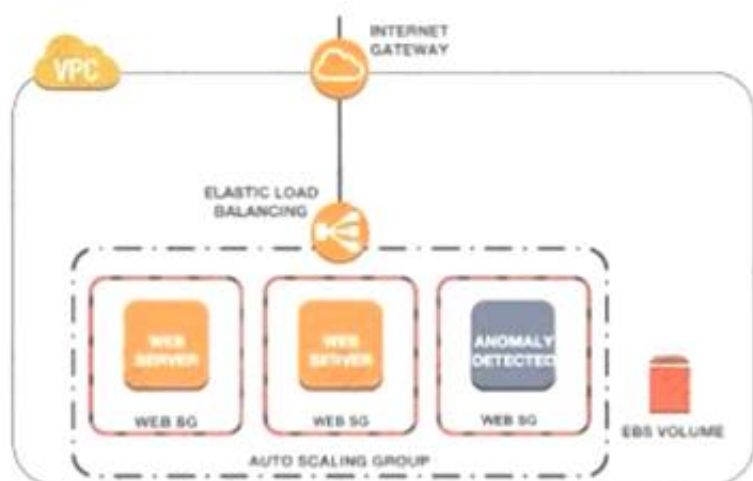
Answer: A

NEW QUESTION 4

- (Exam Topic 1)

A Security Engineer noticed an anomaly within a company EC2 instance as shown in the image. The Engineer must now investigate what is causing the anomaly.

What are the MOST effective steps to take to ensure that the instance is not further manipulated while allowing the Engineer to understand what happened?



- A. Remove the instance from the Auto Scaling group. Place the instance within an isolation security group, detach the EBS volume, launch an EC2 instance with a forensic toolkit, and attach the EBS volume to investigate.
- B. Remove the instance from the Auto Scaling group and the Elastic Load Balancer. Place the instance within an isolation security group, launch an EC2 instance with a forensic toolkit, and allow the forensic toolkit image to connect to the suspicious instance to perform the investigation.
- C. Remove the instance from the Auto Scaling group. Place the instance within an isolation security group, launch an EC2 instance with a forensic toolkit, and use the forensic toolkit image to deploy an ENI as a network span port to inspect all traffic coming from the suspicious instance.
- D. Remove the instance from the Auto Scaling group and the Elastic Load Balancer. Place the instance within an isolation security group, make a copy of the EBS volume from a new snapshot, launch an EC2 instance with a forensic toolkit, and attach the copy of the EBS volume to investigate.

Answer: B

NEW QUESTION 5

- (Exam Topic 1)

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

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

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

Answer: BDF

NEW QUESTION 6

- (Exam Topic 1)

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

How can the Security Engineer accomplish this using AWS services?

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

Answer: B

NEW QUESTION 7

- (Exam Topic 1)

A company's information security team wants to analyze Amazon EC2 performance and utilization data in the near-real time for anomalies. A Sec Engineer is responsible for log aggregation. The Engineer must collect logs from all of the company's AWS accounts in centralized location to perform the analysis.

How should the Security Engineer do this?

Log in to each account four te a day and filter the AWS CloudTrail log data, then copy and paste the logs in to the Amazon S3 bucket in the destination account.

- A. Set up Amazon CloudWatch to stream data to an Amazon S3 bucket in each source accoun
- B. Set up bucket replication for each source account into a centralized bucket owned by the security Engineer.
- C. Set up an AWS Config aggregator to collect AWS configuration data from multiple sources.
- D. Set up an AWS config aggregator to collect AWS configuration data from multiple sources.
- E. Set up Amazon CloudWatch cross-account log data sharing with subscriptions in each accoun
- F. Send the logs to Amazon Kinesis Data Firehose in the Security Engineer's account.

Answer: A

NEW QUESTION 8

- (Exam Topic 1)

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

How can this task be accomplished?

- A. Obtain the list of instances by directly querying Amazon EC2 using: `aws ec2 describe-instances --fi1ters "Name=key-name,Values=KEYNAMEHERE"`.
- B. Obtain the fingerprint for the key pair from the AWS Management Console, then search for the fingerprint in the Amazon Inspector logs.
- C. Obtain the output from the EC2 instance metadata using: `curl http: //169.254.169.254/latest/meta-data/public- keys/0/`.
- D. Obtain the fingerprint for the key pair from the AWS Management Console, then search for the fingerprint in Amazon CloudWatch Logs using: `aws logs filter-log-events`.

Answer: A

NEW QUESTION 9

- (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 AWS KMS to resolve the URL on-the-fly after the user is authenticated.

Answer: B

NEW QUESTION 10

- (Exam Topic 1)

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

Which solution will meet this requirement?

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

Answer: A

NEW QUESTION 10

- (Exam Topic 1)

A global company that deals with International finance is investing heavily in cryptocurrencies and wants to experiment with mining technologies using AWS. 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 AWS Lambda function to process newly detected GuardDuty alerts Process the CryptoCurrency EC2/BitcoinTool BIDNS alert and filter outthe 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 AWS 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 AWS Lambda function to extract the instance ID from the finding Then use the AWS Systems Manager Run Command to check for a running process performing mining operations

Answer: A

NEW QUESTION 11

- (Exam Topic 1)

A Security Engineer is setting up an AWS CloudTrail trail for all regions in an AWS account. For added security, the logs are stored using server-side encryption with AWS 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: D

NEW QUESTION 14

- (Exam Topic 1)

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

What could be causing these terminations?

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

Answer: C

NEW QUESTION 15

- (Exam Topic 1)

A company has decided to use encryption in its AWS 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 AWS KMS customer managed key and store the key material in AWS with replication across Regions
- B. Use an AWS customer managed key, import the key material into AWS KMS using in-house AWS CloudHS
- C. and store the key material securely in Amazon S3.
- D. Use an AWS KMS custom key store backed by AWS CloudHSM clusters, and copy backups across Regions
- E. Use AWS 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 17

- (Exam Topic 1)

A website currently runs on Amazon EC2 with mostly static content on the site. Recently, the site was subjected to a ODoS attack, and a Security Engineer was tasked with redesigning the edge security to help mitigate this risk in the future

What are some ways the Engineer could achieve this? (Select THREE)

- A. Use AWS X-Ray to inspect the traffic going to the EC2 instances
- B. Move the static content to Amazon S3 and front this with an Amazon CloudFront distribution
- C. Change the security group configuration to block the source of the attack traffic
- D. Use AWS WAF security rules to inspect the inbound traffic
- E. Use Amazon Inspector assessment templates to inspect the inbound traffic
- F. Use Amazon Route 53 to distribute traffic

Answer: BDF

NEW QUESTION 22

- (Exam Topic 1)

A company's Director of Information Security wants a daily email report from AWS that contains recommendations for each company account to meet AWS Security best practices.

Which solution would meet these requirements?

- A. In every AWS account, configure AWS Lambda to query the AWS Support API for AWS Trusted Advisor security checks. Send the results from Lambda to an Amazon SNS topic to send reports.
- B. Configure Amazon GuardDuty in a master account and invite all other accounts to be managed by the master account. Use GuardDuty's integration with Amazon SNS to report on findings.
- C. Use Amazon Athena and Amazon QuickSight to build reports off of AWS CloudTrail. Create a daily Amazon CloudWatch trigger to run the report daily and email it using Amazon SNS.
- D. Use AWS Artifact's prebuilt reports and subscriptions. Subscribe the Director of Information Security to the reports by adding the Director as the security alternate contact for each account.

Answer: A

NEW QUESTION 24

- (Exam Topic 1)

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

How should a Security Engineer accomplish this?

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

Answer: C

NEW QUESTION 26

- (Exam Topic 1)

A Security Engineer is looking for a way to control access to data that is being encrypted under a CMK. The Engineer is also looking to use additional authenticated data (AAD) to prevent tampering with ciphertext.

Which action would provide the required functionality?

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

Answer: B

NEW QUESTION 27

- (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.aws.amazon.com/AWSEC2/latest/UserGuide/security-group-rules-reference.html#sg-rules-other-ins>

NEW QUESTION 30

- (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 AWS 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: B

NEW QUESTION 31

- (Exam Topic 1)

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

but there was a GuardDuty finding in the account containing the compromised EC2 instance. The security engineer needs to ensure a GuardDuty finding are 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 AWS 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 AWS Lambda function as a target to raise findings in AWS 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 AWS Lambda function to periodically check for GuardDuty findings.
- D. Use the `aws guardduty get-members` AWS 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 33

- (Exam Topic 1)

To meet regulatory requirements, a Security Engineer needs to implement an IAM policy that restricts the use of AWS 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: A

NEW QUESTION 38

- (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 snapshot.
- I. Create an unencrypted EBS volume of the same size.
- J. Share the target EBS snapshot with the forensics account.

Answer: ABF

NEW QUESTION 40

- (Exam Topic 1)

A Security Engineer discovered a vulnerability in an application running on Amazon ECS. The vulnerability allowed attackers to install malicious code. Analysis of the code shows it exfiltrates data on port 5353 in batches at random time intervals.

While the code of the containers is being patched, how can Engineers quickly identify all compromised hosts and stop the egress of data on port 5353?

- A. Enable AWS Shield Advanced and AWS WAF.
- B. Configure an AWS WAF custom filter for egress traffic on port 5353.
- C. Enable Amazon Inspector on Amazon ECS and configure a custom assessment to evaluate containers that have port 5353 open.
- D. Update the NACLs to block port 5353 outbound.
- E. Create an Amazon CloudWatch custom metric on the VPC Flow Logs identifying egress traffic on port 5353. Update the NACLs to block port 5353 outbound.
- F. Use Amazon Athena to query AWS CloudTrail logs in Amazon S3 and look for any traffic on port 5353. Update the security groups to block port 5353 outbound.

Answer: C

NEW QUESTION 44

- (Exam Topic 1)

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

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

Answer: B

NEW QUESTION 49

- (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 AWS PrivateLink to the VPC. Then update the custom route table with a new route to AWS 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 52

- (Exam Topic 1)

A company plans to use custom AMIs to launch Amazon EC2 instances across multiple AWS accounts in a single Region to perform security monitoring and analytics tasks. The EC2 instances are launched in EC2 Auto Scaling groups. To increase the security of the solution, a Security Engineer will manage the lifecycle of the custom AMIs in a centralized account and will encrypt them with a centrally managed AWS KMS CMK. The Security Engineer configured the KMS key policy to allow cross-account access. However, the EC2 instances are still not being properly launched by the EC2 Auto Scaling groups.

Which combination of configuration steps should the Security Engineer take to ensure the EC2 Auto Scaling groups have been granted the proper permissions to execute tasks?

- A. Create a customer-managed CMK in the centralized account.
- B. Allow other applicable accounts to use that key for cryptographic operations by applying proper cross-account permissions in the key policy. Create an IAM role in all applicable accounts and configure its access policy to allow the use of the centrally managed CMK for cryptographic operation.

- C. Configure EC2 Auto Scaling groups within each applicable account to use the created IAM role to launch EC2 instances.
- D. Create a customer-managed CMK in the centralized account
- E. Allow other applicable accounts to use that key for cryptographic operations by applying proper cross-account permissions in the key policy
- F. Create an IAM role in all applicable accounts and configure its access policy with permissions to create grants for the centrally managed CM
- G. Use this IAM role to create a grant for the centrally managed CMK with permissions to perform cryptographic operations and with the EC2 Auto Scaling service-linked role defined as the grantee principal.
- H. Create a customer-managed CMK or an AWS managed CMK in the centralized account
- I. Allow other applicable accounts to use that key for cryptographic operations by applying proper cross-account permissions in the key policy
- J. Use the CMK administrator to create a CMK grant that includes permissions to perform cryptographic operations that define EC2 Auto Scaling service-linked roles from all other accounts as the grantee principal.
- K. Create a customer-managed CMK or an AWS managed CMK in the centralized account
- L. Allow other applicable accounts to use that key for cryptographic operations by applying proper cross-account permissions in the key policy
- M. Modify the access policy for the EC2 Auto Scaling roles to perform cryptographic operations against the centrally managed CMK.

Answer: B

NEW QUESTION 54

- (Exam Topic 1)

After multiple compromises of its Amazon EC2 instances, a company's Security Officer is mandating that memory dumps of compromised instances be captured for further analysis. A Security Engineer just received an EC2 abuse notification report from AWS stating that an EC2 instance running the most recent Windows Server 2019 Base AMI is compromised.

How should the Security Engineer collect a memory dump of the EC2 instance for forensic analysis?

- A. Give consent to the AWS Security team to dump the memory core on the compromised instance and provide it to AWS Support for analysis.
- B. Review memory dump data that the AWS Systems Manager Agent sent to Amazon CloudWatch Logs.
- C. Download and run the EC2Rescue for Windows Server utility from AWS.
- D. Reboot the EC2 Windows Server, enter safe mode, and select memory dump.

Answer: B

NEW QUESTION 59

- (Exam Topic 1)

A company has decided to migrate sensitive documents from on-premises data centers to Amazon S3. Currently, the hard drives are encrypted to meet a compliance requirement regarding data encryption. The CISO wants to improve security by encrypting each file using a different key instead of a single key. Using a different key would limit the security impact of a single exposed key.

Which of the following requires the LEAST amount of configuration when implementing this approach?

- A. Place each file into a different S3 bucket
- B. Set the default encryption of each bucket to use a different AWS KMS customer managed key.
- C. Put all the files in the same S3 bucket
- D. Using S3 events as a trigger, write an AWS Lambda function to encrypt each file as it is added using different AWS KMS data keys.
- E. Use the S3 encryption client to encrypt each file individually using S3-generated data keys
- F. Place all the files in the same S3 bucket
- G. Use server-side encryption with AWS KMS-managed keys (SSE-KMS) to encrypt the data

Answer: C

NEW QUESTION 63

- (Exam Topic 1)

The Development team receives an error message each time the team members attempt to encrypt or decrypt a Secure String parameter from the SSM Parameter Store by using an AWS KMS customer managed key (CMK).

Which CMK-related issues could be responsible? (Choose two.)

- A. The CMK specified in the application does not exist.
- B. The CMK specified in the application is currently in use.
- C. The CMK specified in the application is using the CMK KeyID instead of CMK Amazon Resource Name.
- D. The CMK specified in the application is not enabled.
- E. The CMK specified in the application is using an alias.

Answer: AD

Explanation:

https://docs.amazonaws.cn/en_us/kms/latest/developerguide/services-parameter-store.html

NEW QUESTION 65

- (Exam Topic 1)

A global company must mitigate and respond to DDoS attacks at Layers 3, 4 and 7 All of the company's AWS 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 AWS WAF with an upgrade to the AWS Business support plan
- B. Use AWS Certificate Manager with an Application Load Balancer configured with an origin access identity
- C. Use AWS Shield Advanced
- D. Use AWS WAF to protect AWS Lambda functions encrypted with AWS KMS and a NACL restricting all Ingress traffic

Answer: C

NEW QUESTION 69

- (Exam Topic 1)

A security engineer is asked to update an AWS CloudTrail log file prefix for an existing trail. When attempting to save the change in the CloudTrail console, the security engineer receives the following error message: "There is a problem with the bucket policy"
What will enable the security engineer to save the change?

- A. Create a new trail with the updated log file prefix, and then delete the original trail. Update the existing bucket policy in the Amazon S3 console with the new log file prefix, and then update the log file prefix in the CloudTrail console.
- B. Update the existing bucket policy in the Amazon S3 console to allow the security engineer's principal to perform `PutBucketPolicy`, and then update the log file prefix in the CloudTrail console.
- C. and then update the log file prefix in the CloudTrail console.
- D. Update the existing bucket policy in the Amazon S3 console with the new log file prefix, and then update the log file prefix in the CloudTrail console.
- E. Update the existing bucket policy in the Amazon S3 console to allow the security engineer's principal to perform `GetBucketPolicy`, and then update the log file prefix in the CloudTrail console.

Answer: B

NEW QUESTION 73

- (Exam Topic 1)

Unapproved changes were previously made to a company's Amazon S3 bucket. A security engineer configured AWS 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 AWS Config to record changes to the buckets.
- B. Configure policies attached to S3 buckets to allow AWS 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 AWS Config actions.
- E. Assign the `AWSConfigRole` managed policy to the AWS Config role.

Answer: BE

NEW QUESTION 78

- (Exam Topic 1)

An AWS account administrator created an IAM group and applied the following managed policy to require that each individual user authenticate using multi-factor authentication:

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": "ec2:*",
      "Resource": "*"
    },
    {
      "Sid": "BlockAnyAccessUnlessSignedInWithMFA",
      "Effect": "Deny",
      "Action": "ec2:*",
      "Resource": "*",
      "Condition": {
        "BoolIfExists": {
          "aws:MultiFactorAuthPresent": false
        }
      }
    }
  ]
}
```

After implementing the policy, the administrator receives reports that users are unable to perform Amazon EC2 commands using the AWS CLI. What should the administrator do to resolve this problem while still enforcing multi-factor authentication?

- A. Change the value of `aws:MultiFactorAuthPresent` to true.
- B. Instruct users to run the `aws sts get-session-token` CLI command and pass the multi-factor authentication—`serial-number` and `token-code` parameters. Store the resulting values in environment variables.
- C. Use these resulting values to make API/CLI calls.
- D. Implement federated API/CLI access using SAML 2.0, then configure the identity provider to enforce multi-factor authentication.
- E. Create a role and enforce multi-factor authentication in the role trust policy. Instruct users to run the `sts assume-role` CLI command and pass `--serial-number` and `--token-code` parameters. Store the resulting values in environment variables.
- F. Add `sts:AssumeRole` to `NotAction` in the policy.

Answer: B

NEW QUESTION 80

- (Exam Topic 1)

A recent security audit identified that a company's application team injects database credentials into the environment variables of an AWS Fargate task. The company's security policy mandates that all sensitive data be encrypted at rest and in transit.

When combination of actions should the security team take to make the application compliant within the security policy? (Select THREE)

- A. Store the credentials securely in a file in an Amazon S3 bucket with restricted access to the application team IAM role. Ask the application team to read the credentials from the S3 object instead.
- B. Create an AWS Secrets Manager secret and specify the key/value pairs to be stored in this secret.
- C. Modify the application to pull credentials from the AWS Secrets Manager secret instead of the environment variables.

D. Add the following statement to the container instance IAM role policy

```
{
  "Effect": "Allow",
  "Action": [
    "ssm:GetParameters",
    "secretsmanager:GetSecretValue",
    "kms:Decrypt"
  ],
  "Resource": [
    "arn:aws:secretsmanager:<region>:<aws_account_id>:secret:secret_name",
    "arn:aws:kms:<region>:<aws_account_id>:key/key_id"
  ]
}
```

E. Add the following statement to the execution role policy.

```
{
  "Effect": "Allow",
  "Action": [
    "ssm:GetParameters",
    "secretsmanager:GetSecretValue",
    "kms:Decrypt"
  ],
  "Resource": [
    "arn:aws:secretsmanager:<region>:<aws_account_id>:secret:secret_name",
    "arn:aws:kms:<region>:<aws_account_id>:key/key_id"
  ]
}
```

F. Log in to the AWS Fargate instance, create a script to read the secret value from AWS Secret Manager, and inject the environment variable

G. Ask the application team to redeploy the application.

Answer: BEF

NEW QUESTION 81

- (Exam Topic 1)

A Security Engineer for a large company is managing a data processing application used by 1,500 subsidiary companies. The parent and subsidiary companies all use AWS. The application uses TCP port 443 and runs on Amazon EC2 behind a Network Load Balancer (NLB). For compliance reasons, the application should only be accessible to the subsidiaries and should not be available on the public internet. To meet the compliance requirements for restricted access, the Engineer has received the public and private CIDR block ranges for each subsidiary

What solution should the Engineer use to implement the appropriate access restrictions for the application?

- A. Create a NACL to allow access on TCP port 443 from the 1,500 subsidiary CIDR block ranges. Associate the NACL to both the NLB and EC2 instances
- B. Create an AWS security group to allow access on TCP port 443 from the 1,500 subsidiary CIDR block range
- C. Associate the security group to the NL
- D. Create a second security group for EC2 instances with access on TCP port 443 from the NLB security group.
- E. Create an AWS PrivateLink endpoint service in the parent company account attached to the NL
- F. Create an AWS security group for the instances to allow access on TCP port 443 from the AWS PrivateLink endpoint
- G. Use AWS PrivateLink interface endpoints in the 1,500 subsidiary AWS accounts to connect to the data processing application.
- H. Create an AWS security group to allow access on TCP port 443 from the 1,500 subsidiary CIDR block range
- I. Associate the security group with EC2 instances.

Answer: D

NEW QUESTION 83

- (Exam Topic 1)

A company is collecting AWS CloudTrail log data from multiple AWS 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 AWS Organizations trails, the company decided to further centralize management and automate deployment of the CloudTrail logging capability across all of its AWS accounts.

The company's security engineer created an AWS Organizations trail in the master account, enabled server-side encryption with AWS 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 crypto graphical operations.

Answer: AD

NEW QUESTION 86

- (Exam Topic 1)

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

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

Answer: C

NEW QUESTION 90

- (Exam Topic 1)

A company is building a data lake on Amazon S3. The data consists of millions of small files containing sensitive information. The security team has the following requirements for the architecture:

- Data must be encrypted in transit.
- Data must be encrypted at rest.
- The bucket must be private, but if the bucket is accidentally made public, the data must remain confidential. Which combination of steps would meet the requirements? (Select THREE.)

- A. Enable AES-256 encryption using server-side encryption with Amazon S3-managed encryption keys (SSE-S3) on the S3 bucket
- B. Enable default encryption with server-side encryption with AWS KMS-managed keys (SSE-KMS) on the S3 bucket.
- C. Add a bucket policy that includes a deny if a PutObject request does not include aws:SecureTransport.
- D. Add a bucket policy with ws: Source to Allow uploads and downloads from the corporate intranet only.
- E. Add a bucket policy that includes a deny if a PutObject request does not include s3:x-amz-server-side-encryption: "aws: kms".
- F. Enable Amazon Macie to monitor and act on changes to the data lake's S3 bucket.

Answer: BDF

NEW QUESTION 95

- (Exam Topic 1)

A company is using AWS Organizations to manage multiple AWS 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 AWS 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 97

- (Exam Topic 1)

While securing the connection between a company's VPC and its on-premises data center, a Security Engineer sent a ping command from an on-premises host (IP address 203.0.113.12) to an Amazon EC2 instance (IP address 172.31.16.139). The ping command did not return a response. The flow log in the VPC showed the following:

2 123456789010 eni-1235b8ca 203.0.113.12 172.31.16.139 0 0 1 4 336 1432917027 1432917142 ACCEPT OK

2 123456789010 eni-1235b8ca 172.31.16.139 203.0.113.12 0 0 1 4 336 1432917094 1432917142 REJECT OK

What action should be performed to allow the ping to work?

- A. In the security group of the EC2 instance, allow inbound ICMP traffic.
- B. In the security group of the EC2 instance, allow outbound ICMP traffic.
- C. In the VPC's NACL, allow inbound ICMP traffic.
- D. In the VPC's NACL, allow outbound ICMP traffic.

Answer: D

NEW QUESTION 99

- (Exam Topic 1)

A security engineer is responsible for providing secure access to AWS resources for thousands of developers in a company's corporate identity provider (IdP). The developers access a set of AWS services from the corporate premises using IAM credentials. 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. This causes concern about overall security for the security engineer.

Which actions will meet the program requirements that address security?

- A. Create an Amazon CloudWatch alarm for AWS 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 AWS and the existing corporate IdP. Leverage IAM roles to provide federated access to AWS resources.
- C. Create a VPN tunnel between the corporate premises and the VPC. Allow permissions to all AWS 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 102

- (Exam Topic 1)

A developer reported that AWS CloudTrail was disabled on their account. A Security Engineer investigated the account and discovered the event was undetected by the current security solution. The Security Engineer must recommend a solution that will detect future changes to the CloudTrail configuration and send alerts when changes occur.

What should the Security Engineer do to meet these requirements?

- A. Use AWS Resource Access Manager (AWS RAM) to monitor the AWS CloudTrail configuration.
- B. Send notifications using Amazon SNS.
- C. Create an Amazon CloudWatch Events rule to monitor Amazon GuardDuty findings.
- D. Send email notifications using Amazon SNS.
- E. Update security contact details in AWS account settings for AWS Support to send alerts when suspicious activity is detected.
- F. Use Amazon Inspector to automatically detect security issues.
- G. Send alerts using Amazon SNS.

Answer: B

NEW QUESTION 107

- (Exam Topic 1)

A Web Administrator for the website example.com has created an Amazon CloudFront distribution for dev.example.com, with a requirement to configure HTTPS using a custom TLS certificate imported to AWS Certificate Manager.

Which combination of steps is required to ensure availability of the certificate in the CloudFront console? (Choose two.)

- A. Call UploadServerCertificate with /cloudfront/dev/ in the path parameter.
- B. Import the certificate with a 4,096-bit RSA public key.
- C. Ensure that the certificate, private key, and certificate chain are PKCS #12-encoded.
- D. Import the certificate in the us-east-1 (
- E. Virginia) Region.
- F. Ensure that the certificate, private key, and certificate chain are PEM-encoded.

Answer: DE

NEW QUESTION 108

- (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 110

- (Exam Topic 1)

A security engineer must use AWS Key Management Service (AWS 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 AWS provided key material
- C. An AWS managed CMK
- D. Operating system-native encryption that uses GnuPG

Answer: B

NEW QUESTION 114

- (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 116

- (Exam Topic 1)

Two Amazon EC2 instances in different subnets should be able to connect to each other but cannot. It has been confirmed that other hosts in the same subnets are able to communicate successfully, and that security groups have valid ALLOW rules in place to permit this traffic.

Which of the following troubleshooting steps should be performed?

- A. Check inbound and outbound security groups, looking for DENY rules.
- B. Check inbound and outbound Network ACL rules, looking for DENY rules.
- C. Review the rejected packet reason codes in the VPC Flow Logs.
- D. Use AWS X-Ray to trace the end-to-end application flow

Answer: C

NEW QUESTION 118

- (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 AWS Key Management Service (AWS KMS) CM
- B. Encrypt the data at rest.
- C. Use AWS 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 AWS Encryption SDK
- G. Use client-side encryption and sign the table items.

Answer: A

NEW QUESTION 119

- (Exam Topic 2)

A company will store sensitive documents in three Amazon S3 buckets based on a data classification scheme of "Sensitive," "Confidential," and "Restricted." The security solution must meet all of the following requirements:

- Each object must be encrypted using a unique key.
- Items that are stored in the "Restricted" bucket require two-factor authentication for decryption.
- AWS KMS must automatically rotate encryption keys annually.

Which of the following meets these requirements?

- A. Create a Customer Master Key (CMK) for each data classification type, and enable the rotation of it annually
- B. For the "Restricted" CMK, define the MFA policy within the key policy
- C. Use S3 SSE-KMS to encrypt the objects.
- D. Create a CMK grant for each data classification type with EnableKeyRotation and MultiFactorAuthPresent set to true
- E. S3 can then use the grants to encrypt each object with a unique CMK.
- F. Create a CMK for each data classification type, and within the CMK policy, enable rotation of it annually, and define the MFA policy
- G. S3 can then create DEK grants to uniquely encrypt each object within the S3 bucket.
- H. Create a CMK with unique imported key material for each data classification type, and rotate them annually
- I. For the "Restricted" key material, define the MFA policy in the key policy
- J. Use S3 SSE-KMS to encrypt the objects.

Answer: A

Explanation:

CMKs that are not eligible for automatic key rotation, including asymmetric CMKs, CMKs in custom key stores, and CMKs with imported key material.

NEW QUESTION 122

- (Exam Topic 2)

A Security Engineer must enforce the use of only Amazon EC2, Amazon S3, Amazon RDS, Amazon DynamoDB, and AWS STS in specific accounts. What is a scalable and efficient approach to meet this requirement?

- A Set up an AWS Organizations hierarchy, and replace the FullAWSAccess policy with the following Service Control Policy for the governed organization units:

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Action": [
        "dynamodb:*", "rds:*", "ec2:*",
        "s3:*", "sts:*"
      ],
      "Effect": "Allow",
      "Resource": "*"
    }
  ]
}
```

- B Create multiple IAM users for the regulated accounts, and attach the following policy statement to restrict services as required:

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Action": *
      "Effect": "Allow",
      "Resource": "*"
    }
    {
      "NotAction": [
        "dynamodb:*", "rds:*", "ec2:*",
"s3:*", "sts:*"
      ],
      "Effect": "Deny ",
      "Resource": "*"
    }
  ]
}
```

- C Set up an Organizations hierarchy, replace the global FullAWSAccess with the following Service Control Policy at the top level:

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Action": [
        "dynamodb:*", "rds:*", "ec2:*",
"s3:*", "sts:*"
      ],
      "Effect": "Allow",
      "Resource": "*"
    }
  ]
}
```

- D Set up all users in the Active Directory for federated access to all accounts in the company. Associate Active Directory groups with IAM groups, and attach the following policy statement to restrict services as required:

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Action": *
      "Effect": "Allow",
      "Resource": "*"
    }
    {
      "NotAction": [
        "dynamodb:*", "rds:*", "ec2:*",
"s3:*", "sts:*"
      ],
      "Effect": "Deny ",
      "Resource": "*"
    }
  ]
}
```

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

D. Option D

Answer: A

Explanation:

It says specific accounts which mean specific governed OUs under your organization and you apply specific service control policy to these OUs.

NEW QUESTION 123

- (Exam Topic 2)

A Systems Administrator has written the following Amazon S3 bucket policy designed to allow access to an S3 bucket for only an authorized AWS IAM user from the IP address range 10.10.10.0/24:

```
{
  "Version": "2012-10-17",
  "Id": "S3Policy1",
  "Statement": [
    {
      "Sid": ["OfficeAllowIP"],
      "Effect": ["Allow"],
      "Principal": ["*"],
      "Action": ["s3:*"],
      "Resource": ["arn:aws:s3:::Bucket"],
      "Condition": {
        "IpAddress": [
          {
            "aws:SourceIp": "10.10.10.0/24"
          }
        ]
      }
    }
  ]
}
```

When trying to download an object from the S3 bucket from 10.10.10.40, the IAM user receives an access denied message. What does the Administrator need to change to grant access to the user?

- A. Change the "Resource" from "arn: aws:s3:::Bucket" to "arn:aws:s3:::Bucket/*".
- B. Change the "Principal" from "*" to {AWS:"arn:aws:iam: : account-number: user/username"}
- C. Change the "Version" from "2012-10-17" to the last revised date of the policy
- D. Change the "Action" from ["s3:*"] to ["s3:GetObject", "s3:ListBucket"]

Answer: A

NEW QUESTION 128

- (Exam Topic 2)

An organization wants to deploy a three-tier web application whereby the application servers run on Amazon EC2 instances. These EC2 instances need access to credentials that they will use to authenticate their SQL connections to an Amazon RDS DB instance. Also, AWS Lambda functions must issue queries to the RDS database by using the same database credentials.

The credentials must be stored so that the EC2 instances and the Lambda functions can access them. No other access is allowed. The access logs must record when the credentials were accessed and by whom.

What should the Security Engineer do to meet these requirements?

- A. Store the database credentials in AWS Key Management Service (AWS KMS). Create an IAM role with access to AWS KMS by using the EC2 and Lambda service principals in the role's trust polic
- B. Add the role to an EC2 instance profil
- C. Attach the instance profile to the EC2 instance
- D. Set up Lambda to use the new role for execution.
- E. Store the database credentials in AWS KM
- F. Create an IAM role with access to KMS by using the EC2 and Lambda service principals in the role's trust polic
- G. Add the role to an EC2 instance profil
- H. Attach the instance profile to the EC2 instances and the Lambda function.
- I. Store the database credentials in AWS Secrets Manage
- J. Create an IAM role with access to Secrets Manager by using the EC2 and Lambda service principals in the role's trust polic
- K. Add the role to an EC2 instance profil
- L. Attach the instance profile to the EC2 instances and the Lambda function.
- M. Store the database credentials in AWS Secrets Manage

- N. Create an IAM role with access to Secrets Manager by using the EC2 and Lambda service principals in the role's trust policy.
 O. Add the role to an EC2 instance profile.
 P. Attach the instance profile to the EC2 instance.
 Q. Set up Lambda to use the new role for execution.

Answer: D

NEW QUESTION 130

- (Exam Topic 2)

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

Please select:

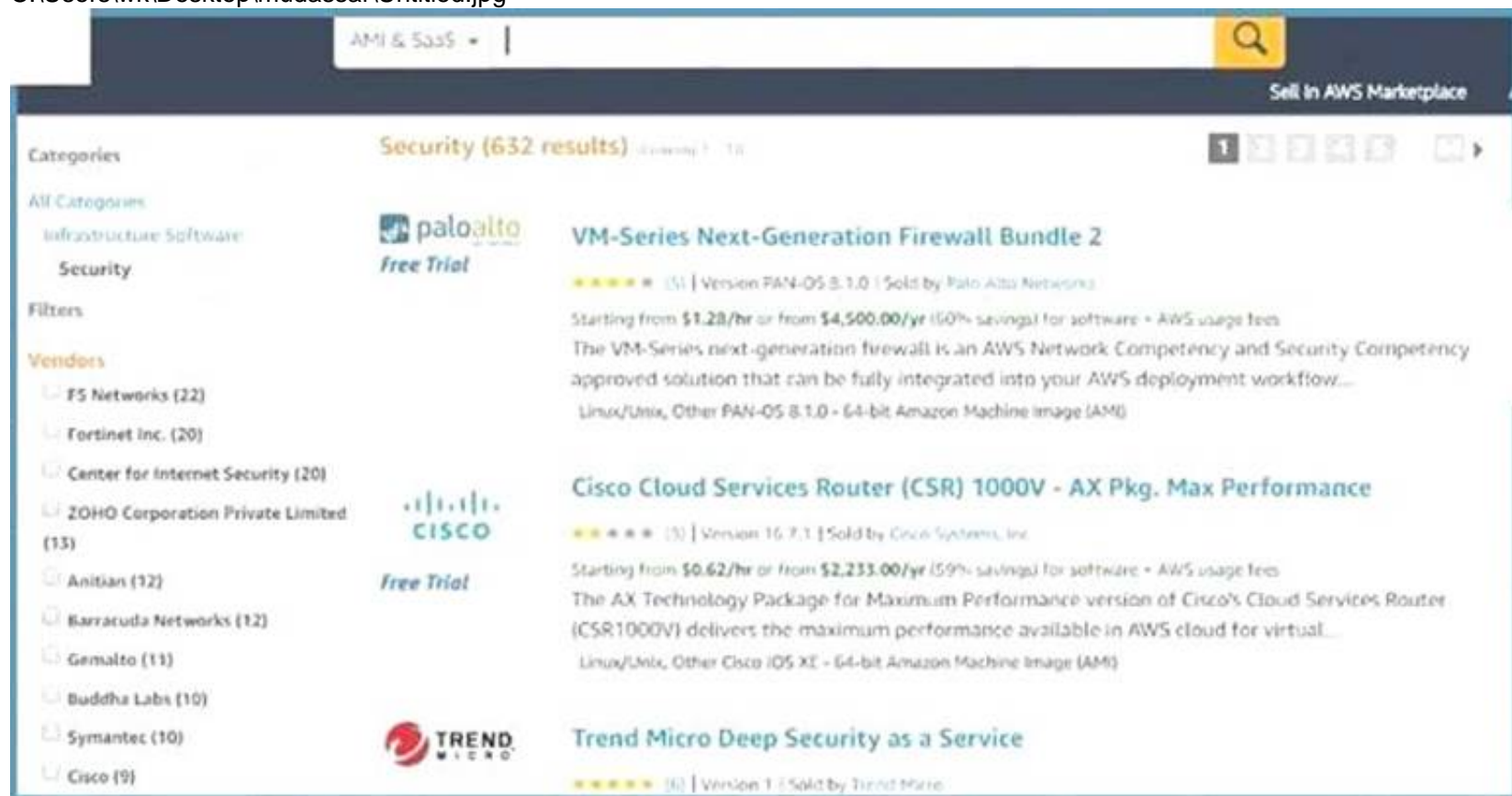
- A. Use AWS WAF to catch all intrusions occurring on the systems in the VPC.
 B. Use a custom solution available in the AWS Marketplace.
 C. Use VPC Flow logs to detect the issues and flag them accordingly.
 D. Use AWS Cloudwatch to monitor all traffic.

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 AWS 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.awsstatic.com/Marketplace/security/AWSMP_Security_Solution%20Overview.pdf

For more information on using custom security solutions, please visit the below URL: https://d1.awsstatic.com/Marketplace/security/AWSMP_Security_Solution%20Overview.pdf

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

NEW QUESTION 134

- (Exam Topic 2)

A Security Engineer must design a solution that enables the Incident Response team to audit for changes to a user's IAM permissions in the case of a security incident.

How can this be accomplished?

- A. Use AWS Config to review the IAM policy assigned to users before and after the incident.
 B. Run the GenerateCredentialReport via the AWS CLI, and copy the output to Amazon S3 daily for auditing purposes.
 C. Copy AWS CloudFormation templates to S3, and audit for changes from the template.
 D. Use Amazon EC2 Systems Manager to deploy images, and review AWS CloudTrail logs for changes.

Answer: A

Explanation:

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

NEW QUESTION 139

- (Exam Topic 2)

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

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

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

D. Digitized files -> Amazon Kinesis Data Firehose -> Amazon Elasticsearch

Answer: B

NEW QUESTION 142

- (Exam Topic 2)

A Security Engineer received an AWS Abuse Notice listing EC2 instance IDs that are reportedly abusing other hosts. Which action should the Engineer take based on this situation? (Choose three.)

- A. Use AWS Artifact to capture an exact image of the state of each instance.
- B. Create EBS Snapshots of each of the volumes attached to the compromised instances.
- C. Capture a memory dump.
- D. Log in to each instance with administrative credentials to restart the instance.
- E. Revoke all network ingress and egress except for to/from a forensics workstation.
- F. Run Auto Recovery for Amazon EC2.

Answer: BEF

NEW QUESTION 147

- (Exam Topic 2)

An AWS 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 AWS 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 AWS 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://aws.amazon.com/blogs/security/iam-policies-and-bucket-policies-and-acls-oh-my-controlling-access-to-s>

NEW QUESTION 148

- (Exam Topic 2)

A company has Windows Amazon EC2 instances in a VPC that are joined to on-premises Active Directory servers for domain services. The security team has enabled Amazon GuardDuty on the AWS account to alert on issues with the instances. During a weekly audit of network traffic, the Security Engineer notices that one of the EC2 instances is attempting to communicate with a known command-and-control server but failing. This alert does not show up in GuardDuty. Why did GuardDuty fail to alert to this behavior?

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

Answer: B

Explanation:

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

NEW QUESTION 149

- (Exam Topic 2)

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

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

Answer: A

Explanation:

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

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

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

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

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

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

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

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

NEW QUESTION 153

- (Exam Topic 2)

A company has a few dozen application servers in private subnets behind an Elastic Load Balancer (ELB) in an AWS Auto Scaling group. The application is accessed from the web over HTTPS. The data must always be encrypted in transit. The Security Engineer is worried about potential key exposure due to vulnerabilities in the application software.

Which approach will meet these requirements while protecting the external certificate during a breach?

- A. Use a Network Load Balancer (NLB) to pass through traffic on port 443 from the internet to port 443 on the instances.
- B. Purchase an external certificate, and upload it to the AWS Certificate Manager (for use with the ELB) and to the instance
- C. Have the ELB decrypt traffic, and route and re-encrypt with the same certificate.
- D. Generate an internal self-signed certificate and apply it to the instance
- E. Use AWS Certificate Manager to generate a new external certificate for the EL
- F. Have the ELB decrypt traffic, and route and re-encrypt with the internal certificate.
- G. Upload a new external certificate to the load balance
- H. Have the ELB decrypt the traffic and forward it on port 80 to the instances.

Answer: C

NEW QUESTION 155

- (Exam Topic 2)

An application makes calls to AWS services using the AWS SDK. The application runs on Amazon EC2 instances with an associated IAM role. When the application attempts to access an object within an Amazon S3 bucket; the Administrator receives the following error message: HTTP 403: Access Denied. Which combination of steps should the Administrator take to troubleshoot this issue? (Select three.)

- A. Confirm that the EC2 instance's security group authorizes S3 access.
- B. Verify that the KMS key policy allows decrypt access for the KMS key for this IAM principle.
- C. Check the S3 bucket policy for statements that deny access to objects.
- D. Confirm that the EC2 instance is using the correct key pair.
- E. Confirm that the IAM role associated with the EC2 instance has the proper privileges.
- F. Confirm that the instance and the S3 bucket are in the same Region.

Answer: BCE

NEW QUESTION 160

- (Exam Topic 2)

A company is using CloudTrail to log all AWS 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 AWS 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.aws.amazon.com/awscloudtrail/latest/userguide/cloudtrail-log-file-validation-intro.html> For more information on delivering Cloudtrail logs from multiple accounts, please visit the below URL:

<https://docs.aws.amazon.com/awscloudtrail/latest/userguide/cloudtrail-receive-logs-from-multiple-accounts.htm>

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

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NEW QUESTION 161

- (Exam Topic 2)

What are the MOST secure ways to protect the AWS account root user of a recently opened AWS account? (Choose two.)

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

Answer: CE

NEW QUESTION 165

- (Exam Topic 2)

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

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

The IAM user policy is as follows:

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

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

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

Answer: CE

Explanation:

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

NEW QUESTION 167

- (Exam Topic 2)

You have a vendor that needs access to an AWS resource. You create an AWS user account. You want to restrict access to the resource using a policy for just that user over a brief period. Which of the following would be an ideal policy to use?
Please select:

- A. An AWS Managed Policy
- B. An Inline Policy
- C. A Bucket Policy
- D. A bucket ACL

Answer: B

Explanation:

The AWS Documentation gives an example on such a case

Inline policies are useful if you want to maintain a strict one-to-one relationship between a policy and the principal entity that it is applied to. For example, you want to be sure that the permissions in a policy are not inadvertently assigned to a principal entity other than the one they're intended for. When you use an inline policy, the permissions in the policy cannot be inadvertently attached to the wrong principal entity. In addition, when you use the AWS Management Console to delete that principal entity the policies embedded in the principal entity are deleted as well. That's because they are part of the principal entity.

Option A is invalid because AWS Managed Policies are ok for a group of users, but for individual users, inline policies are better.

Option C and D are invalid because they are specifically meant for access to S3 buckets For more information on policies, please visit the following URL:

<https://docs.aws.amazon.com/IAM/latest/UserGuide/access-managed-vs-inline>

The correct answer is: An Inline Policy Submit your Feedback/Queries to our Experts

NEW QUESTION 172

- (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 AWS account to help optimize costs.

The Security Engineer for Example Corp. has been tasked with providing AnyCompany with access to the required Example Corp. AWS resources. The Engineer has created an IAM role and granted permission to AnyCompany's AWS 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 aws:MultiFactorAuthPresent.
- E. Request an IP range from AnyCompany and add a condition with aws:SourceIp to the role's trust policy.

Answer: B

NEW QUESTION 176

- (Exam Topic 2)

While analyzing a company's security solution, a Security Engineer wants to secure the AWS account root user.

What should the Security Engineer do to provide the highest level of security for the account?

- A. Create a new IAM user that has administrator permissions in the AWS account
- B. Delete the password for the AWS account root user.
- C. Create a new IAM user that has administrator permissions in the AWS account
- D. Modify the permissions for the existing IAM users.
- E. Replace the access key for the AWS account root user
- F. Delete the password for the AWS account root user.
- G. Create a new IAM user that has administrator permissions in the AWS account
- H. Enable multi-factor authentication for the AWS account root user.

Answer: D

Explanation:

If you continue to use the root user credentials, we recommend that you follow the security best practice to enable multi-factor authentication (MFA) for your account. Because your root user can perform sensitive operations in your account, adding an additional layer of authentication helps you to better secure your account. Multiple types of MFA are available.

NEW QUESTION 177

- (Exam Topic 2)

An organization receives an alert that indicates that an EC2 instance behind an ELB Classic Load Balancer has been compromised.

What techniques will limit lateral movement and allow evidence gathering?

- A. Remove the instance from the load balancer and terminate it.
- B. Remove the instance from the load balancer, and shut down access to the instance by tightening the security group.
- C. Reboot the instance and check for any Amazon CloudWatch alarms.
- D. Stop the instance and make a snapshot of the root EBS volume.

Answer: B

Explanation:

https://d1.awsstatic.com/whitepapers/aws_security_incident_response.pdf

NEW QUESTION 182

- (Exam Topic 2)

The InfoSec team has mandated that in the future only approved Amazon Machine Images (AMIs) can be used.

How can the InfoSec team ensure compliance with this mandate?

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

Answer: C

Explanation:

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

NEW QUESTION 183

- (Exam Topic 2)

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

Please select:

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

Answer: B

Explanation:

Use the Systems Manager Patch Manager to generate the report and also install the missing patches. The AWS Documentation mentions the following: AWS Systems Manager Patch Manager automates the process of patching managed instances with security-related updates. For Linux-based instances, you can also install patches for non-security updates. You can patch fleets of Amazon EC2 instances or your on-premises servers and virtual machines (VMs) by operating system type. This includes supported versions of Windows, Ubuntu Server, Red Hat Enterprise Linux (RHEL), SUSE Linux Enterprise Server (SLES), and Amazon Linux. You can scan instances to see only a report of missing patches, or you can scan and automatically install all missing patches.

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

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

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

For more information on the AWS Patch Manager, please visit the below URL:

<https://docs.aws.amazon.com/systems-manager/latest/userguide/systems-manager-patch.html> (

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

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NEW QUESTION 187

- (Exam Topic 2)

A Security Administrator is restricting the capabilities of company root user accounts. The company uses AWS 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 AWS 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 AWS 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 AWS Organizations -Only service control policy (SCP) are supported https://docs.aws.amazon.com/organizations/latest/userguide/orgs_manage_policies.html

NEW QUESTION 191

- (Exam Topic 2)

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

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

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

Answer: D

Explanation:

AWS Region that You Request a Certificate In (for AWS Certificate Manager) If you want to require HTTPS between viewers and CloudFront, you must change the AWS region to US East (N. Virginia) in the AWS 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.aws.amazon.com/AmazonCloudFront/latest/DeveloperGuide/cnames-and-https-requirements.html>

NEW QUESTION 194

- (Exam Topic 2)

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

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

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

Answer: ACE

Explanation:

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

NEW QUESTION 199

- (Exam Topic 2)

What is the function of the following AWS 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 AWS.
- 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 202

- (Exam Topic 2)

A Systems Engineer is troubleshooting the connectivity of a test environment that includes a virtual security appliance deployed inline. In addition to using the virtual security appliance, the Development team wants to use security groups and network ACLs to accomplish various security requirements in the environment. What configuration is necessary to allow the virtual security appliance to route the traffic?

- A. Disable network ACLs.
- B. Configure the security appliance's elastic network interface for promiscuous mode.
- C. Disable the Network Source/Destination check on the security appliance's elastic network interface
- D. Place the security appliance in the public subnet with the internet gateway

Answer: C

Explanation:

Each EC2 instance performs source/destination checks by default. This means that the instance must be the source or destination of any traffic it sends or receives. In this case virtual security appliance instance must be able to send and receive traffic when the source or destination is not itself. Therefore, you must disable source/destination checks on the NAT instance."

NEW QUESTION 205

- (Exam Topic 2)

An application outputs logs to a text file. The logs must be continuously monitored for security incidents. Which design will meet the requirements with MINIMUM effort?

- A. Create a scheduled process to copy the component's logs into Amazon S3. Use S3 events to trigger a Lambda function that updates Amazon CloudWatch metrics with the log dat
- B. Set up CloudWatch alerts based on the metrics.
- C. Install and configure the Amazon CloudWatch Logs agent on the application's EC2 instanc
- D. Create a CloudWatch metric filter to monitor the application log
- E. Set up CloudWatch alerts based on the metrics.
- F. Create a scheduled process to copy the application log files to AWS CloudTrai
- G. Use S3 events to trigger Lambda functions that update CloudWatch metrics with the log dat
- H. Set up CloudWatch alerts based on the metrics.
- I. Create a file watcher that copies data to Amazon Kinesis when the application writes to the log file. Have Kinesis trigger a Lambda function to update Amazon CloudWatch metrics with the log dat
- J. Set up CloudWatch alerts based on the metrics.

Answer: B

Explanation:

<https://docs.aws.amazon.com/AmazonCloudWatch/latest/logs/QuickStartEC2Instance.html>

NEW QUESTION 207

- (Exam Topic 2)

A security team is creating a response plan in the event an employee executes unauthorized actions on AWS infrastructure. They want to include steps to determine if the employee's IAM permissions changed as part of the incident. What steps should the team document in the plan? Please select:

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

Answer: A

Explanation:

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

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



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

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

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

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

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NEW QUESTION 212

- (Exam Topic 2)

The Security Engineer is given the following requirements for an application that is running on Amazon EC2 and managed by using AWS CloudFormation templates with EC2 Auto Scaling groups:

- Have the EC2 instances bootstrapped to connect to a backend database.
- Ensure that the database credentials are handled securely.
- Ensure that retrievals of database credentials are logged.

Which of the following is the MOST efficient way to meet these requirements?

- A. Pass databases credentials to EC2 by using CloudFormation stack parameters with the property set to true
- B. Ensure that the instance is configured to log to Amazon CloudWatch Logs.
- C. Store database passwords in AWS Systems Manager Parameter Store by using SecureString parameters. Set the IAM role for the EC2 instance profile to allow access to the parameters.
- D. Create an AWS Lambda that ingests the database password and persists it to Amazon S3 with server-side encryption
- E. Have the EC2 instances retrieve the S3 object on startup, and log all script invocations to syslog.
- F. Write a script that is passed in as UserData so that it is executed upon launch of the EC2 instance. Ensure that the instance is configured to log to Amazon CloudWatch Logs.

Answer: B

NEW QUESTION 213

- (Exam Topic 2)

You want to get a list of vulnerabilities for an EC2 Instance as per the guidelines set by the Center of Internet Security. How can you go about doing this? Please select:

- A. Enable AWS Guard Duty for the Instance
- B. Use AWS Trusted Advisor
- C. Use AWS Inspector
- D. Use AWS Macie

Answer: C

Explanation:

The AWS Inspector service can inspect EC2 Instances based on specific Rules. One of the rules packages is based on the guidelines set by the Center of Internet Security

Center for Internet security (CIS) Benchmarks

The CIS Security Benchmarks program provides well-defined, un-biased and consensus-based industry best practices to help organizations assess and improve their security. Amazon Web Services is a CIS Security Benchmarks Member company and the list of Amazon Inspector certifications can be viewed here.

Option A is invalid because this can be used to protect an instance but not give the list of vulnerabilities Options B and D are invalid because these services cannot give a list of vulnerabilities For more information on the guidelines, please visit the below URL:

* https://docs.aws.amazon.com/inspector/latest/userguide/inspector_cis.html The correct answer is: Use AWS Inspector

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NEW QUESTION 216

- (Exam Topic 2)

An organization has three applications running on AWS, each accessing the same data on Amazon S3. The data on Amazon S3 is server-side encrypted by using an AWS 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 AWS 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 217

- (Exam Topic 2)

A Developer who is following AWS best practices for secure code development requires an application to encrypt sensitive data to be stored at rest, locally in the application, using AWS 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.aws.amazon.com/sdkfornet/latest/apidocs/items/MKeyManagementServiceKeyManagementService>

NEW QUESTION 219

- (Exam Topic 2)

For compliance reasons, an organization limits the use of resources to three specific AWS 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 AWS 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 AWS 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 223

- (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.aws.amazon.com/AmazonCloudFront/latest/DeveloperGuide/private-content-restricting-access-to-s3>

NEW QUESTION 227

- (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 230

- (Exam Topic 2)

Which option for the use of the AWS Key Management Service (KMS) supports key management best practices that focus on minimizing the potential scope of data exposed by a possible future key compromise?

- A. Use KMS automatic key rotation to replace the master key, and use this new master key for future encryption operations without re-encrypting previously encrypted data.
- B. Generate a new Customer Master Key (CMK), re-encrypt all existing data with the new CMK, and use it for all future encryption operations.
- C. Change the CMK alias every 90 days, and update key-calling applications with the new key alias.
- D. Change the CMK permissions to ensure that individuals who can provision keys are not the same individuals who can use the keys.

Answer: B

Explanation:

"automatic key rotation has no effect on the data that the CMK protects. It does not rotate the data keys that the CMK generated or re-encrypt any data protected by the CMK, and it will not mitigate the effect of a compromised data key. You might decide to create a new CMK and use it in place of the original CMK. This has the same effect as rotating the key material in an existing CMK, so it's often thought of as manually rotating the key."

<https://docs.aws.amazon.com/kms/latest/developerguide/rotate-keys.html>

NEW QUESTION 233

- (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. AWS CloudHSM
- C. Amazon DynamoDB with server-side encryption
- D. AWS Systems Manager Parameter Store

Answer: B

NEW QUESTION 236

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

Answer: D

Explanation:

AWS Shield is mainly for DDos Attacks. AWS WAF is mainly for some other types of attacks like Injection and XSS etc. In 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.aws.amazon.com/vpc/latest/userguide/flow-logs.html>

NEW QUESTION 241

- (Exam Topic 2)

A distributed web application is installed across several EC2 instances in public subnets residing in two Availability Zones. Apache logs show several intermittent brute-force attacks from hundreds of IP addresses at the layer 7 level over the past six months.

What would be the BEST way to reduce the potential impact of these attacks in the future?

- A. Use custom route tables to prevent malicious traffic from routing to the instances.
- B. Update security groups to deny traffic from the originating source IP addresses.
- C. Use network ACLs.
- D. Install intrusion prevention software (IPS) on each instance.

Answer: D

Explanation:

<https://docs.aws.amazon.com/vpc/latest/userguide/amazon-vpc-limits.html> NACL has limit 20 (can increase to maximum 40 rule), and more rule will make more low-latency

NEW QUESTION 242

- (Exam Topic 2)

Your company has defined privileged users for their AWS 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 AWS 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 AWS. For more information on IAM best practices, please visit the below URL.

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

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NEW QUESTION 244

- (Exam Topic 2)

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

Please select:

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

Answer: B

Explanation:

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

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

For more information on authorizing access to an instance, please visit the below URL: <https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/authorizing-access-to-an-instance.html>

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

NEW QUESTION 249

- (Exam Topic 2)

A security team is responsible for reviewing AWS API call activity in the cloud environment for security violations. These events must be recorded and retained in a centralized location for both current and future AWS regions.

What is the SIMPLEST way to meet these requirements?

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

Answer: C

NEW QUESTION 251

- (Exam Topic 2)

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

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

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

Answer: B

Explanation:

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

NEW QUESTION 253

- (Exam Topic 2)

You have a 2 tier application hosted in AWS. It consists of a web server and database server (SQL Server) hosted on separate EC2 Instances. You are devising the security groups for these EC2 Instances. The Web tier needs to be accessed by users across the Internet. You have created a web security group(wg-123) and database security group(db-345). Which combination of the following security group rules will allow the application to be secure and functional. Choose 2 answers from the options given below.

Please select:

- A. wg-123 -Allow ports 80 and 443 from 0.0.0.0/0
- B. db-345 - Allow port 1433 from wg-123
- C. wg-123 - Allow port 1433 from wg-123
- D. db-345 -Allow ports 1433 from 0.0.0.0/0

Answer: AB

Explanation:

The Web security groups should allow access for ports 80 and 443 for HTTP and HTTPS traffic to all users from the internet.

The database security group should just allow access from the web security group from port 1433. Option C is invalid because this is not a valid configuration

Option D is invalid because database security should not be allowed on the internet For more information on Security Groups please visit the below URL:

<https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/usins-network-security.html>

The correct answers are: wg-123 - Allow ports 80 and 443 from 0.0.0.0/0, db-345 - Allow port 1433 from wg-123

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NEW QUESTION 256

- (Exam Topic 2)

When you enable automatic key rotation for an existing CMK key where the backing key is managed by AWS, 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 AWS Documentation states the following

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

Note: AWS-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.aws.amazon.com/kms/latest/developerguide/rotate-keys.html>

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

You can login to you IAM dashbaord . Click on "Encryption Keys" You will find the list based on the services you are using as follows:

- aws/elasticfilesystem 1 aws/lightsail
- aws/s3
- aws/rds and many more Detailed Guide: KMS

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

The AWS services that integrate with AWS KMS can use it in many different ways. Some services create AWS 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 AWS managed CMK or the control of a customer-managed CMK

Rotation period for CMKs is as follows:

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

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

For more details, please check below AWS Docs: <https://docs.aws.amazon.com/kms/latest/developerguide/concepts.html> The correct answer is: After 3 years
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NEW QUESTION 260

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

Answer: C

Explanation:

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

NEW QUESTION 262

- (Exam Topic 2)

You have just received an email from AWS Support stating that your AWS account might have been compromised. Which of the following steps would you look to carry out immediately. Choose 3 answers from the options below.

Please select:

- A. Change the root account password.
- B. Rotate all IAM access keys
- C. Keep all resources running to avoid disruption
- D. Change the password for all IAM users.

Answer: ABD

Explanation:

One of the articles from AWS mentions what should be done in such a scenario

If you suspect that your account has been compromised, or if you have received a notification from AWS that the account has been compromised, perform the following tasks:

Change your AWS root account password and the passwords of any IAM users.

Delete or rotate all root and AWS Identity and Access Management (IAM) access keys.

Delete any resources on your account you didn't create, especially running EC2 instances, EC2 spot bids, or IAM users.

Respond to any notifications you received from AWS Support through the AWS Support Center.

Option C is invalid because there could be compromised instances or resources running on your environment. They should be shutdown or stopped immediately.

For more information on the article, please visit the below URL: <https://aws.amazon.com/premiumsupport/knowledge-center/potential-account-compromise>>

The correct answers are: Change the root account password. Rotate all IAM access keys. Change the password for all IAM users. Submit your Feedback/Queries to our Experts

NEW QUESTION 265

- (Exam Topic 2)

A Security Engineer is working with a Product team building a web application on AWS. 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 AWS 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 266

- (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 AWS 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. 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.

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

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NEW QUESTION 267

- (Exam Topic 2)

A company's database developer has just migrated an Amazon RDS database credential to be stored and managed by AWS Secrets Manager. The developer has also enabled rotation of the credential within the Secrets Manager console and set the rotation to change every 30 days.

After a short period of time, a number of existing applications have failed with authentication errors. What is the MOST likely cause of the authentication errors?

- A. Migrating the credential to RDS requires that all access come through requests to the Secrets Manager.
- B. Enabling rotation in Secrets Manager causes the secret to rotate immediately, and the applications are using the earlier credential.
- C. The Secrets Manager IAM policy does not allow access to the RDS database.
- D. The Secrets Manager IAM policy does not allow access for the applications.

Answer: B

Explanation:

<https://docs.aws.amazon.com/secretsmanager/latest/userguide/enable-rotation-rds.html>

NEW QUESTION 270

- (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.aws.amazon.com/AmazonCloudWatch/latest/monitoring/permissions-reference-cw.html>

NEW QUESTION 273

- (Exam Topic 2)

A Security Engineer discovers that developers have been adding rules to security groups that allow SSH and RDP traffic from 0.0.0.0/0 instead of the organization firewall IP.

What is the most efficient way to remediate the risk of this activity?

- A. Delete the internet gateway associated with the VPC.
- B. Use network access control lists to block source IP addresses matching 0.0.0.0/0.
- C. Use a host-based firewall to prevent access from all but the organization's firewall IP.
- D. Use AWS Config rules to detect 0.0.0.0/0 and invoke an AWS Lambda function to update the security group with the organization's firewall IP.

Answer: D

NEW QUESTION 277

- (Exam Topic 2)

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

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

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

Answer: A

Explanation:

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

NEW QUESTION 281

- (Exam Topic 2)

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

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

Answer: A

Explanation:

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

NEW QUESTION 282

- (Exam Topic 2)

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

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

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

Answer: CDE

NEW QUESTION 286

- (Exam Topic 2)

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

Please select:

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

Answer: C

Explanation:

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

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

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

The AWS Documentation mentions the following

AWS Shield Advanced provides enhanced protections for your applications running on Amazon EC2. Elastic Load Balancing (ELB), Amazon CloudFront and Route 53 against larger and more sophisticated attacks. AWS Shield Advanced is available to AWS Business Support and AWS Enterprise Support customers.

AWS Shield Advanced protection provides always-on, flow-based monitoring of network traffic and active application monitoring to provide near real-time notifications of DDos attacks. AWS Shield Advanced also gives customers highly flexible controls over attack mitigations to take actions instantly. Customers can also engage the DDos Response Team (DRT) 24X7 to manage and mitigate their application layer DDos attacks.

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

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

NEW QUESTION 291

- (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. AWS Access keys
- D. AWS SDK keys

Answer: B

Explanation:

The AWS 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 AWS 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 AWS Security credentials, please visit the below URL: <https://docs.aws.amazon.com/eeneral/latest/er/aws-sec-cred-types.html>

The correct answer is: Key pairs

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NEW QUESTION 296

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