Amazon

Exam Questions AWS-Certified-Security-Specialty

Amazon AWS Certified Security - Specialty

NEW QUESTION 1
A company uses Amazon Elastic Container Service (Amazon ECS) containers that have the Fargate launch type. The containers run web and mobile applications that are written in Java and Node.js. To meet network segmentation requirements, each of the company's business units deploys applications in its own dedicated AWS account.
Each business unit stores container images in an Amazon Elastic Container Registry (Amazon ECR) private registry in its own account.
A security engineer must recommend a solution to scan ECS containers and ECR registries for vulnerabilities in operating systems and programming language libraries.
The company's audit team must be able to identify potential vulnerabilities that exist in any of the accounts where applications are deployed.
Which solution will meet these requirements?

A. In each account, update the ECR registry to use Amazon Inspector instead of the default scanning servic
B. Configure Amazon Inspector to forward vulnerability findings to AWS Security Hub in a central security accoun
C. Provide access for the audit team to use Security Hub to review the findings.
D. In each account, configure AWS Config to monitor the configuration of the ECS containers and the ECR registr
E. Configure AWS Config conformance packs for vulnerability scannin
F. Create an AWS Config aggregator in a central account to collect configuration and compliance details from all account
G. Provide the audit team with access to AWS Config in the account where the aggregator is configured.
H. In each account, configure AWS Audit Manager to scan the ECS containers and the ECR registry.Configure Audit Manager to forward vulnerability findings to AWS Security Hub in a central security accoun
I. Provide access for the audit team to use Security Hub to review the findings.
J. In each account, configure Amazon GuardDuty to scan the ECS containers and the ECR registry.Configure GuardDuty to forward vulnerability findings to AWS Security Hub in a central security accoun
K. Provide access for the audit team to use Security Hub to review the findings.

Answer: B

Explanation:
Option B: This option meets the requirements of scanning ECS containers and ECR registries for vulnerabilities, and providing a centralized view of the findings for the audit team. AWS Config is a service that enables you to assess, audit, and evaluate the configurations of your AWS resources. AWS Config conformance packs are a collection of AWS Config rules and remediation actions that can be easily deployed as a single entity in an account and a Region or across an organization in AWS Organizations. Conformance packs can help you manage configuration compliance of your AWS resources at scale by using a common framework and packaging model. You can use prebuilt conformance packs for vulnerability scanning, such as CIS Operating System Security Configuration Benchmarks or Amazon Inspector Rules for Linux Instances1. You can also create custom conformance packs to scan for vulnerabilities in programming language libraries. AWS Config aggregator is a feature that enables you to aggregate configuration and compliance data from multiple accounts and Regions
into a single account and Region2. You can provide access for the audit team to use AWS Config in the account where the aggregator is configured, and view the aggregated data in the AWS Config console or API.

NEW QUESTION 2
A company discovers a billing anomaly in its AWS account. A security consultant investigates the anomaly and discovers that an employee who left the company 30 days ago still has access to the account.
The company has not monitored account activity in the past.
The security consultant needs to determine which resources have been deployed or reconfigured by the employee as quickly as possible.
Which solution will meet these requirements?

A. In AWS Cost Explorer, filter chart data to display results from the past 30 day
B. Export the results to a data tabl
C. Group the data table by re-source.
D. Use AWS Cost Anomaly Detection to create a cost monito
E. Access the detec-tion histor
F. Set the time frame to Last 30 day
G. In the search area, choose the service category.
H. In AWS CloudTrail, filter the event history to display results from the past 30 day
I. Create an Amazon Athena table that contains the dat
J. Parti-tion the table by event source.
K. Use AWS Audit Manager to create an assessment for the past 30 day
L. Apply a usage-based framework to the assessmen
M. Configure the assessment to as-sess by resource.

Answer: C

NEW QUESTION 3
A company wants to protect its website from man in-the-middle attacks by using Amazon CloudFront. Which solution will meet these requirements with the LEAST operational overhead?

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

Answer: C

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

NEW QUESTION 4
A company deploys a set of standard IAM roles in AWS accounts. The IAM roles are based on job functions within the company. To balance operational efficiency and security, a security engineer implemented AWS Organizations SCPs to restrict access to critical security services in all company accounts.
All of the company's accounts and OUs within AWS Organizations have a default FullAWSAccess SCP that is attached. The security engineer needs to ensure that no one can disable Amazon GuardDuty and AWS Security Hub. The security engineer also must not override other permissions that are granted by IAM policies that are defined in the accounts.
Which SCP should the security engineer attach to the root of the organization to meet these requirements?

A.
```
"Version": "2012-10-17",
"Statement"":[
  {
    "Effect": "Deny",
    "Action":[
      "guardduty:DeleteDetector",
      "guardduty:UpdateDetector",
      "securityhub:DisableSecurityHub"
    ],
    "Resource":[
    "*"
    ]
  }
 ]
}
```

B. A screenshot of a computer code Description automatically generated
```
{
 "Version": "2012-10-17",
 "Statement"":[
   {
      "Effect": "Deny",
      "Action":"*",
      "Resource": "*"
    },
    {
      "Effect": "Allow",
      "NotAction": [
      "guardduty:DeleteDetector",
      "guardduty:UpdateDetector",
      "securityhub:DisableSecurityHub"
    ],
    "Resource":[
    "*"
    ]
  }
 ]
}
```

C. A screenshot of a computer code Description automatically generated
```
{
 "Version": "2012-10-17",
 "Statement"":[
   {
      "Effect": "Allow",
      "Action":"*",
      "Resource": "*"
    },
    {
      "Effect": "Deny",
      "NotAction": [
      "guardduty:DeleteDetector",
      "guardduty:UpdateDetector",
      "securityhub:DisableSecurityHub"
    ],
    "Resource":[
    "*"
    ]
  }
 ]
}
```

D. A screenshot of a computer code Description automatically generated

```
{
 "Version": "2012-10-17",
 "Statement"":[
   {
       "Effect": "Allow",
        "NotAction": [
       "guardduty:DeleteDetector",
       "guardduty:UpdateDetector",
       "securityhub:DisableSecurityHub"
     ],
     "Resource":[
     "*"
     ]
   }
  ]
}
```

Answer: A

NEW QUESTION 5
A company has an encrypted Amazon Aurora DB cluster in the us-east-1 Region. The DB cluster is encrypted with an AWS Key Management Service (AWS KMS) customer managed key. To meet compliance requirements, the company needs to copy a DB snapshot to the us-west-1 Region. However, when the company tries to copy the snapshot to us-west-1 the company cannot access the key that was used to encrypt the original database.
What should the company do to set up the snapshot in us-west-1 with proper encryption?

A. Use AWS Secrets Manager to store the customer managed key in us-west-1 as a secret Use this secret to encrypt the snapshot in us-west-1.
B. Create a new customer managed key in us-west-1. Use this new key to encrypt the snapshot in us-west-1.
C. Create an IAM policy that allows access to the customer managed key in us-east-1. Specify am aws kmsus-west-1 " as the principal.
D. Create an IAM policy that allows access to the customer managed key in us-east-1. Specify arn aws rds us-west-1. * as the principal.

Answer: B

Explanation:
"If you copy an encrypted snapshot across Regions, you must specify a KMS key valid in the destination AWS Region. It can be a Region-specific KMS key, or a multi-Region key." https://docs.aws.amazon.com/AmazonRDS/latest/AuroraUserGuide/aurora-copy-snapshot.html#aurora-copy-sna

NEW QUESTION 6
A large corporation is creating a multi-account strategy and needs to determine how its employees should access the IAM infrastructure.
Which of the following solutions would provide the MOST scalable solution?

A. Create dedicated IAM users within each IAM account that employees can assume through federationbased upon group membership in their existing identity provider
B. Use a centralized account with IAM roles that employees can assume through federation with their existing identity provider Use cross-account roles to allow the federated users to assume their target role in the resource accounts.
C. Configure the IAM Security Token Service to use Kerberos tokens so that users can use their existing corporate user names and passwords to access IAM resources directly
D. Configure the IAM trust policies within each account's role to set up a trust back to the corporation's existing identity provider allowing users to assume the role based off their SAML token

Answer: B

Explanation:
the most scalable solution for accessing the IAM infrastructure in a multi-account strategy. A multi-account strategy is a way of organizing your AWS resources into multiple IAM accounts for security, billing, and management purposes. Federation is a process that allows users to access AWS resources using credentials from an external identity provider such as Active Directory or SAML. IAM roles are sets of permissions that grant access to AWS resources. Cross-account roles are IAM roles that allow users in one account to access resources in another account. By using a centralized account with IAM roles that employees can assume through federation with their existing identity provider, you can simplify and streamline the access management process. By using cross-account roles to allow the federated users to assume their target role in the resource accounts, you can enable granular and flexible access control across multiple accounts. The other options are either less scalable or less secure for accessing the IAM infrastructure in a multi-account strategy.

NEW QUESTION 7
A company has a set of EC2 Instances hosted in IAM. The EC2 Instances have EBS volumes which is used to store critical information. There is a business continuity requirement to ensure high availability for the EBS volumes. How can you achieve this?

A. Use lifecycle policies for the EBS volumes
B. Use EBS Snapshots
C. Use EBS volume replication
D. Use EBS volume encryption

Answer: B

Explanation:
Data stored in Amazon EBS volumes is redundantly stored in multiple physical locations as part of normal operation of those services and at no additional charge. However, Amazon EBS replication is stored within the same availability zone, not across multiple zones; therefore, it is highly recommended that you conduct regular snapshots to Amazon S3 for long-term data durability Option A is invalid because there is no lifecycle policy for EBS volumes Option C is invalid because there is no EBS volume replication Option D is invalid because EBS volume encryption will not ensure business continuity For information on security for Compute Resources, please visit the below URL: https://d1.awsstatic.com/whitepapers/Security/Security_Compute_Services_Whitepaper.pdf

NEW QUESTION 8
A company wants to migrate its static primary domain website to AWS. The company hosts the website and DNS servers internally. The company wants the website to enforce SSL/TLS encryption block IP addresses from outside the United States (US), and take advantage of managed services whenever possible. Which solution will meet these requirements?

A. Migrate the website to Amazon S3 Import a public SSL certificate to an Application Loa
B. Balancer with rules to block traffic from outside the US Migrate DNS to Amazon Route 53.
C. Migrate the website to Amazon EC2 Import a public SSL certificate that is created by AWS Certificate Manager (ACM) to an Application Load Balancer with rules to block traffic from outside the US Update DNS accordingly.
D. Migrate the website to Amazon S3. Import a public SSL certificate to Amazon CloudFront Use AWS WAF rules to block traffic from outside the US Update DNS.accordingly
E. Migrate the website to Amazon S3 Import a public SSL certificate that is created by AWS Certificate Manager (ACM) to Amazo
F. CloudFront Configure CloudFront to block traffic from outside the U
G. Migrate DNS to Amazon Route 53.

Answer: D

Explanation:
To migrate the static website to AWS and meet the requirements, the following steps are required:
- Migrate the website to Amazon S3, which is a highly scalable and durable object storage service that can host static websites. To do this, create an S3 bucket with the same name as the domain name of the website, enable static website hosting for the bucket, upload the website files to the bucket, and configure the bucket policy to allow public read access to the objects. For more information, see Hosting a static website on Amazon S3.
- Import a public SSL certificate that is created by AWS Certificate Manager (ACM) to Amazon CloudFront, which is a global content delivery network (CDN) service that can improve the performance and security of web applications. To do this, request or import a public SSL certificate for the domain name of the website using ACM, create a CloudFront distribution with the S3 bucket as the origin, and associate the SSL certificate with the distribution. For more information, see Using alternate domain names and HTTPS.
- Configure CloudFront to block traffic from outside the US, which is one of the requirements. To do this, create a CloudFront web ACL using AWS WAF, which is a web application firewall service that lets you control access to your web applications. In the web ACL, create a rule that uses a geo match condition to block requests that originate from countries other than the US. Associate the web ACL with the CloudFront distribution. For more information, see How AWS WAF works with Amazon CloudFront features.
- Migrate DNS to Amazon Route 53, which is a highly available and scalable cloud DNS service that can route traffic to various AWS services. To do this, register or transfer your domain name to Route 53, create a hosted zone for your domain name, and create an alias record that points your domain name to your CloudFront distribution. For more information, see Routing traffic to an Amazon CloudFront web distribution by using your domain name.

The other options are incorrect because they either do not implement SSL/TLS encryption for the website (A), do not use managed services whenever possible (B), or do not block IP addresses from outside the US ©.Verified References:
- https://docs.aws.amazon.com/AmazonS3/latest/userguide/HostingWebsiteOnS3Setup.html
- https://docs.aws.amazon.com/waf/latest/developerguide/waf-cloudfront.html
- https://docs.aws.amazon.com/Route53/latest/DeveloperGuide/routing-to-cloudfront-distribution.html

NEW QUESTION 9
A company is using AWS Organizations to create OUs for its accounts. The company has more than 20 accounts that are all part of the OUs. A security engineer must implement a solution to ensure that no account can stop to file delivery to AWS CloudTrail.
Which solution will meet this requirement?

A. Use the --is-multi-region-trail option while running the create-trail command to ensure that logs are configured across all AWS Regions.
B. Create an SCP that includes a Deny rule tor the cloudtrai
C. StopLogging action Apply the SCP to all accounts in the OUs.
D. Create an SCP that includes an Allow rule for the cloudtrai
E. StopLogging action Apply the SCP to all accounts in the OUs.
F. Use AWS Systems Manager to ensure that CloudTrail is always turned on.

Answer: B

Explanation:
This SCP prevents users or roles in any affected account from disabling a CloudTrail log, either directly as a command or through the console.
https://asecure.cloud/a/scp_cloudtrail/

NEW QUESTION 10
A company is hosting a static website on Amazon S3 The company has configured an Amazon CloudFront distribution to serve the website contents The company has associated an IAM WAF web ACL with the CloudFront distribution. The web ACL ensures that requests originate from the United States to address compliance restrictions.
THE company is worried that the S3 URL might still be accessible directly and that requests can bypass the CloudFront distribution
Which combination of steps should the company take to remove direct access to the S3 URL? (Select TWO.)

A. Select "Restrict Bucket Access" in the origin settings of the CloudFront distribution
B. Create an origin access identity (OAI) for the S3 origin
C. Update the S3 bucket policy to allow s3 GetObject with a condition that the IAM Referer key matches the secret value Deny all other requests
D. Configure the S3 bucket poky so that only the origin access identity (OAI) has read permission for objects in the bucket
E. Add an origin custom header that has the name Referer to the CloudFront distribution Give the header asecret value.

Answer: AD

NEW QUESTION 10
A recent security audit found that IAM CloudTrail logs are insufficiently protected from tampering and unauthorized access Which actions must the Security Engineer take to address these audit findings? (Select THREE)

A. Ensure CloudTrail log file validation is turned on
B. Configure an S3 lifecycle rule to periodically archive CloudTrail logs into Glacier for long-term storage
C. Use an S3 bucket with tight access controls that exists m a separate account
D. Use Amazon Inspector to monitor the file integrity of CloudTrail log files.
E. Request a certificate through ACM and use a generated certificate private key to encrypt CloudTrail log files
F. Encrypt the CloudTrail log files with server-side encryption with IAM KMS-managed keys (SSE-KMS)

Answer: ADE

NEW QUESTION 12
An application team wants to use IAM Certificate Manager (ACM) to request public certificates to ensure that data is secured in transit. The domains that are being used are not currently hosted on Amazon Route 53
The application team wants to use an IAM managed distribution and caching solution to optimize requests to its systems and provide better points of presence to customers The distribution solution will use a primary domain name that is customized The distribution solution also will use several alternative domain names The certificates must renew automatically over an indefinite period of time
Which combination of steps should the application team take to deploy this architecture? (Select THREE.)

A. Request a certificate (torn ACM in the us-west-2 Region Add the domain names that the certificate will secure
B. Send an email message to the domain administrators to request vacation of the domains for ACM
C. Request validation of the domains for ACM through DNS Insert CNAME records into each domain's DNS zone
D. Create an Application Load Balancer for me caching solution Select the newly requested certificate from ACM to be used for secure connections
E. Create an Amazon CloudFront distribution for the caching solution Enter the main CNAME record as the Origin Name Enter the subdomain names or alternate names in the Alternate Domain Names Distribution Settings Select the newly requested certificate from ACM to be used for secure connections
F. Request a certificate from ACM in the us-east-1 Region Add the domain names that the certificate wil secure

Answer: CDF

NEW QUESTION 13
A company wants to establish separate IAM Key Management Service (IAM KMS) keys to use for different IAM services. The company's security engineer created the following key policy lo allow the infrastructure deployment team to create encrypted Amazon Elastic Block Store (Amazon EBS) volumes by assuming the InfrastructureDeployment IAM role:

```
{
    "Version": "2012-10-17",
    "Id": "key-policy-ebs",
    "Statement": [
        {
            "Sid": "Enable IAM User Permissions",
            "Effect": "Allow",
            "Principal": {
                "AWS": "arn:aws:iam::123456789012:root"
            },
            "Action": "kms:*",
            "Resource": "*"
        },
        {
            "Sid": "Allow use of the key",
            "Effect": "Allow",
            "Principal": {
                "AWS": "arn:aws:iam::123456789012:role/aws-reserved/sso.amazonaws.com/InfrastructureDeployment"
            },
            "Action": [
                "kms:Encrypt",
                "kms:Decrypt",
                "kms:ReEncrypt*",
                "kms:GenerateDataKey*",
                "kms:DescribeKey",
                "kms:CreateGrant",
                "kms:ListGrants",
                "kms:RevokeGrant"
            ],
            "Resource": "*",
            "Condition": {
                "StringEquals": {
                    "kms:ViaService": "ec2.us-west-2.amazonaws.com"
                }
            }
        }
    ]
}
```

The security engineer recently discovered that IAM roles other than the InfrastructureDeployment role used this key (or other services. Which change to the policy should the security engineer make to resolve these issues?

A. In the statement block that contains the Sid "Allow use of the key", under the "Condition" block, change StringEquals to StringLike.
B. In the policy document, remove the statement Dlock that contains the Sid "Enable IAM User Permissions". Add key management policies to the KMS policy.
C. In the statement block that contains the Sid "Allow use of the Key", under the "Condition" block, change the Kms:ViaService value to ec2.us-east-1 .amazonIAM com.
D. In the policy document, add a new statement block that grants the kms:Disable' permission to the security engineer's IAM role.

Answer: C

Explanation:
To resolve the issues, the security engineer should make the following change to the policy:

In the statement block that contains the Sid “Allow use of the key”, under the “Condition” block, change the Kms:ViaService value to ec2.us-east-1.amazonaws.com. This allows the security engineer to restrict the use of the key to only EC2 service in the us-east-1 region, and prevent other services from using the key.

NEW QUESTION 17
An Application team has requested a new IAM KMS master key for use with Amazon S3, but the organizational security policy requires separate master keys for different IAM services to limit blast radius.
How can an IAM KMS customer master key (CMK) be constrained to work with only Amazon S3?

A. Configure the CMK key policy to allow only the Amazon S3 service to use the kms Encrypt action
B. Configure the CMK key policy to allow IAM KMS actions only when the kms ViaService condition matches the Amazon S3 service name.
C. Configure the IAM user's policy lo allow KMS to pass a rote lo Amazon S3
D. Configure the IAM user's policy to allow only Amazon S3 operations when they are combined with the CMK

Answer: B

Explanation:
the kms:ViaService condition key can be used to restrict a CMK to work with only a specific AWS
service6. By configuring the CMK key policy to allow KMS actions only when the kms:ViaService condition matches the Amazon S3 service name, you can ensure that only Amazon S3 can use the CMK7. The other options are either incorrect or insufficient for constraining a CMK to work with only Amazon S3.

NEW QUESTION 18
A company has a batch-processing system that uses Amazon S3, Amazon EC2, and AWS Key Management Service (AWS KMS). The system uses two AWS accounts: Account A and Account B.
Account A hosts an S3 bucket that stores the objects that will be processed. The S3 bucket also stores the results of the processing. All the S3 bucket objects are encrypted by a KMS key that is managed in
Account A.
Account B hosts a VPC that has a fleet of EC2 instances that access the S3 buck-et in Account A by using statements in the bucket policy. The VPC was created with DNS hostnames enabled and DNS resolution enabled.
A security engineer needs to update the design of the system without changing any of the system's code. No AWS API calls from the batch-processing EC2 in-stances can travel over the internet.
Which combination of steps will meet these requirements? (Select TWO.)

A. In the Account B VPC, create a gateway VPC endpoint for Amazon S3. For the gateway VPC endpoint,create a resource policy that allows the s3:GetObject, s3:ListBucket, s3:PutObject, and s3:PutObjectAcl actions for the S3 bucket.
B. In the Account B VPC, create an interface VPC endpoint for Amazon S3. For the interface VPC endpoint, create a resource policy that allows the s3:GetObject, s3:ListBucket, s3:PutObject, and s3:PutObjectAcl actions for the S3 bucket.
C. In the Account B VPC, create an interface VPC endpoint for AWS KM
D. For the interface VPC endpoint, create a resource policy that allows the kms:Encrypt, kms:Decrypt, and kms:GenerateDataKey actions for the KMS ke
E. Ensure that private DNS is turned on for the endpoint.
F. In the Account B VPC, create an interface VPC endpoint for AWS KM
G. For the interface VPC endpoint, create a resource policy that allows the kms:Encrypt, kms:Decrypt, and kms:GenerateDataKey actions for the KMS ke
H. Ensure that private DNS is turned off for the endpoint.
I. In the Account B VPC, verify that the S3 bucket policy allows the s3:PutObjectAcl action for cross-account us
J. In the Account B VPC, create a gateway VPC endpoint for Amazon S3. For the gateway VPC endpoint, create a resource policy that allows the s3:GetObject, s3:ListBucket, and s3:PutObject actions for the S3 bucket.

Answer: BC

NEW QUESTION 20
A company has an AWS Lambda function that creates image thumbnails from larger images. The Lambda function needs read and write access to an Amazon S3 bucket in the same AWS account.
Which solutions will provide the Lambda function this access? (Select TWO.)

A. Create an IAM user that has only programmatic acces
B. Create a new access key pai
C. Add environmental variables to the Lambda function with the ac-cess key ID and secret access ke
D. Modify the Lambda function to use the environmental variables at run time during communication with Amazon S3.
E. Generate an Amazon EC2 key pai
F. Store the private key in AWS Secrets Man-age
G. Modify the Lambda function to retrieve the private key from Secrets Manager and to use the private key during communication with Amazon S3.
H. Create an IAM role for the Lambda functio
I. Attach an IAM policy that al-lows access to the S3 bucket.
J. Create an IAM role for the Lambda functio
K. Attach a bucket policy to the S3 bucket to allow access.Specify the function's IAM role as the princi-pal.
L. Create a security grou
M. Attach the security group to the Lambda functio
N. Attach a bucket policy that allows access to the S3 bucket through the se-curity group ID.

Answer: CD

NEW QUESTION 25
A company's Security Engineer is copying all application logs to centralized Amazon S3 buckets. Currently, each of the company's applications is in its own IAM account, and logs are pushed into S3 buckets associated with each account. The Engineer will deploy an IAM Lambda function into each account that copies the relevant log files to the centralized S3 bucket.
The Security Engineer is unable to access the log files in the centralized S3 bucket. The Engineer's IAM user policy from the centralized account looks like this:

```
{
    "Version": "2012-10-17",
    "Statement": [
        {
            "Action": "s3:Put*",
            "Resource":"arn:aws:s3:::centralizedbucket/*",
            "Effect": "Deny"
        },
        {
            "Action": ["s3:Get*","s3:List*"],
            "Resource": [
                "arn:aws:s3:::centralizedbucket/*",
                "arn:aws:s3:::centralizedbucket/"
            ],
            "Effect": "Allow"
        }
    ]
}
```

The centralized S3 bucket policy looks like this:

```
{
    "Version": "2012-10-17",    "Statement": [
        {
            "Effect": "Allow",
            "Principal": {
                "AWS": [
                    "arn:aws:iam::111122223333:role/LogCopier",
                    "arn:aws:iam::444455556666:role/LogCopier"
                ]
            },
            "Action": ["s3:PutObject","s3:PutObjectAcl"],
            "Resource": "arn:aws:s3:::centralizedbucket/*"
        }
    ]
}
```

Why is the Security Engineer unable to access the log files?

A. The S3 bucket policy does not explicitly allow the Security Engineer access to the objects in the bucket.
B. The object ACLs are not being updated to allow the users within the centralized account to access the objects
C. The Security Engineers IAM policy does not grant permissions to read objects in the S3 bucket
D. The s3:PutObject and s3:PutObjectAcl permissions should be applied at the S3 bucket level

Answer: C

NEW QUESTION 28
A company has two AWS accounts. One account is for development workloads. The other account is for production workloads. For compliance reasons the production account contains all the AWS Key Management. Service (AWS KMS) keys that the company uses for encryption.
The company applies an IAM role to an AWS Lambda function in the development account to allow secure access to AWS resources. The Lambda function must access a specific KMS customer managed key that exists in the production account to encrypt the Lambda function's data.
Which combination of steps should a security engineer take to meet these requirements? (Select TWO.)

A. Configure the key policy for the customer managed key in the production account to allow access to the Lambda service.
B. Configure the key policy for the customer managed key in the production account to allow access to the IAM role of the Lambda function in the development account.
C. Configure a new IAM policy in the production account with permissions to use the customer managed ke
D. Apply the IAM policy to the IAM role that the Lambda function in the development account uses.
E. Configure a new key policy in the development account with permissions to use the customer managed ke
F. Apply the key policy to the IAM role that the Lambda function in the development account uses.
G. Configure the IAM role for the Lambda function in the development account by attaching an IAM policy that allows access to the customer managed key in the production account.

Answer: BE

Explanation:
To allow a Lambda function in one AWS account to access a KMS customer managed key in another AWS account, the following steps are required:

- Configure the key policy for the customer managed key in the production account to allow access to the IAM role of the Lambda function in the development account. A key policy is a resource-based policy that defines who can use or manage a KMS key. To grant cross-account access to a KMS key, you must specify the AWS account ID and the IAM role ARN of the external principal in the key policy statement. For more information, see Allowing users in other accounts to use a KMS key.
- Configure the IAM role for the Lambda function in the development account by attaching an IAM policy that allows access to the customer managed key in the production account. An IAM policy is an identity-based policy that defines what actions an IAM entity can perform on which resources. To allow an IAM role to use a KMS key in another account, you must specify the KMS key ARN and the kms:Encrypt action (or any other action that requires access to the KMS key) in the IAM policy statement. For more information, see Using IAM policies with AWS KMS.

This solution will meet the requirements of allowing secure access to a KMS customer managed key across AWS accounts.
The other options are incorrect because they either do not grant cross-account access to the KMS key (A, C), or do not use a valid policy type for KMS keys (D).

Verified References:
https://docs.aws.amazon.com/kms/latest/developerguide/iam-policies.html

NEW QUESTION 29
A company's cloud operations team is responsible for building effective security for IAM cross-account access. The team asks a security engineer to help troubleshoot why some developers in the developer account (123456789012) in the developers group are not able to assume a cross-account role (ReadS3) into a production account (999999999999) to read the contents of an Amazon S3 bucket (productionapp). The two account policies are as follows:

Developer account 123456789012:
Developer group permissions:

```
{
    "Version": "2012-10-17",
    "Statement": {
        "Effect": "Allow",
        "Action": "sts:AssumeRole",
        "Resource": "arn:aws:iam::999999999999:role/ReadS3"
    }
}
```

Production account 999999999999:
Production account ReadS3 role policy:

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

Production account ReadS3 role policy - trust relationship:

```
{
    "Version": "2012-10-17",
    "Statement": [
        {
            "Effect": "Allow",
            "Principal": {
                "AWS": "arn:aws:iam::888888888888:root"
            },
            "Action": "sts:AssumeRole",
            "Condition": {
                "BoolIfExists": {
                    "aws:MultiFactorAuthPresent": "true"
                }
            }
        }
    ]
}
```

Which recommendations should the security engineer make to resolve this issue? (Select TWO.)

A. Ask the developers to change their password and use a different web browser.
B. Ensure that developers are using multi-factor authentication (MFA) when they log in to their developer account as the developer role.
C. Modify the production account ReadS3 role policy to allow the PutBucketPolicy action on the productionapp S3 bucket.
D. Update the trust relationship policy on the production account S3 role to allow the account number of the developer account.
E. Update the developer group permissions in the developer account to allow access to the productionapp S3 bucket.

Answer: AD

NEW QUESTION 30
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 32
A company has a new partnership with a vendor. The vendor will process data from the company's customers. The company will upload data files as objects into an Amazon S3 bucket. The vendor will download the objects to perform data processing. The objects will contain sensi-tive data.
A security engineer must implement a solution that prevents objects from resid-ing in the S3 bucket for longer than 72 hours.
Which solution will meet these requirements?

A. Use Amazon Macie to scan the S3 bucket for sensitive data every 72 hour
B. Configure Macie to delete the objects that contain sensitive data when they are discovered.
C. Configure an S3 Lifecycle rule on the S3 bucket to expire objects that have been in the S3 bucket for 72 hours.
D. Create an Amazon EventBridge scheduled rule that invokes an AWS Lambda function every day.Program the Lambda function to remove any objects that have been in the S3 bucket for 72 hours.
E. Use the S3 Intelligent-Tiering storage class for all objects that are up-loaded to the S3 bucke
F. Use S3 Intelligent-Tiering to expire objects that have been in the S3 bucket for 72 hours.

Answer: B

NEW QUESTION 35
A company in France uses Amazon Cognito with the Cognito Hosted Ul as an identity broker for sign-in and sign-up processes. The company is marketing an application and expects that all the application's users will come from France.
When the company launches the application the company's security team observes fraudulent sign-ups for the application. Most of the fraudulent registrations are from users outside of France.
The security team needs a solution to perform custom validation at sign-up Based on the results of the validation the solution must accept or deny the registration request.
Which combination of steps will meet these requirements? (Select TWO.)

A. Create a pre sign-up AWS Lambda trigge
B. Associate the Amazon Cognito function with the Amazon Cognito user pool.
C. Use a geographic match rule statement to configure an AWS WAF web AC
D. Associate the web ACL with the Amazon Cognito user pool.
E. Configure an app client for the application's Amazon Cognito user poo
F. Use the app client ID to validate the requests in the hosted Ul.
G. Update the application's Amazon Cognito user pool to configure a geographic restriction setting.
H. Use Amazon Cognito to configure a social identity provider (IdP) to validate the requests on the hosted Ul.

Answer: B

Explanation:
https://docs.aws.amazon.com/cognito/latest/developerguide/user-pool-lambda-post-authentication.html

NEW QUESTION 37
Your company has just set up a new central server in a VPC. There is a requirement for other teams who have their servers located in different VPC's in the same region to connect to the central server. Which of the below options is best suited to achieve this requirement.
Please select:

A. Set up VPC peering between the central server VPC and each of the teams VPCs.
B. Set up IAM DirectConnect between the central server VPC and each of the teams VPCs.
C. Set up an IPSec Tunnel between the central server VPC and each of the teams VPCs.
D. None of the above options will work.

Answer: A

Explanation:
A VPC peering connection is a networking connection between two VPCs that enables you to route traffic between them using private IPv4 addresses or IPv6 addresses. Instances in either VPC can communicate with each other as if they are within the same network. You can create a VPC peering connection between your own VPCs, or with a VPC in another IAM account within a single region.
Options B and C are invalid because you need to use VPC Peering Option D is invalid because VPC Peering is available
For more information on VPC Peering please see the below Link:
http://docs.IAM.amazon.com/AmazonVPC/latest/UserGuide/vpc-peering.html
The correct answer is: Set up VPC peering between the central server VPC and each of the teams VPCs. Submit your Feedback/Queries to our Experts

NEW QUESTION 40
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 parameter
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 polic
F. Instruct users to run the sts assume-role CLI command and pass --serial-number and --token-code parameter
G. Store the resultingvalues in environment variable
H. Add sts:AssumeRole to NotAction in the policy.

Answer: B

Explanation:
The correct answer is 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. Use these resulting values to make API/CLI calls.
According to the AWS documentation1, the aws sts get-session-token CLI command returns a set of temporary credentials for an AWS account or IAM user. The credentials consist of an access key ID, a secret access key, and a security token. These credentials are valid for the specified duration only. The session duration for IAM users can be between 15 minutes and 36 hours, with a default of 12 hours.
You can use the --serial-number and --token-code parameters to provide the MFA device serial number and the MFA code from the device. The MFA device must be associated with the user who is making the
get-session-token call. If you do not provide these parameters when your IAM user or role has a policy that requires MFA, you will receive an Access Denied error.
The temporary security credentials that are returned by the get-session-token command can then be used to make subsequent API or CLI calls that require MFA authentication. You can use environment variables or a profile in your AWS CLI configuration file to specify the temporary credentials.
Therefore, this solution will resolve the problem of users being unable to perform EC2 commands using the AWS CLI, while still enforcing MFA.
The other options are incorrect because:

- A. Changing the value of aws:MultiFactorAuthPresent to true will not work, because this is a condition key that is evaluated by AWS when a request is made. You cannot set this value manually in your policy or request. You must provide valid MFA information to AWS for this condition key to be true.
- C. Implementing federated API/CLI access using SAML 2.0 may work, but it requires more operational effort than using the get-session-token command. You would need to configure a SAML identity provider and trust relationship with AWS, and use a custom SAML client to request temporary credentials from AWS STS. This solution may also introduce additional security risks if the identity provider is compromised.
- D. Creating a role and enforcing MFA in the role trust policy may work, but it also requires more operational effort than using the get-session-token command. You would need to create a role for each user or group that needs to perform EC2 commands, and specify a trust policy that requires MFA. You would also need to grant the users permission to assume the role, and instruct them to use the sts assume-role command instead of the get-session-token command.

References:
1: get-session-token — AWS CLI Command Reference

NEW QUESTION 45
A company is hosting a web application on Amazon EC2 instances behind an Application Load Balancer (ALB). The application has become the target of a DoS attack. Application logging shows that requests are coming from small number of client IP addresses, but the addresses change regularly.
The company needs to block the malicious traffic with a solution that requires the least amount of ongoing effort.
Which solution meets these requirements?

A. Create an AWS WAF rate-based rule, and attach it to the ALB.
B. Update the security group that is attached to the ALB to block the attacking IP addresses.
C. Update the ALB subnet's network ACL to block the attacking client IP addresses.
D. Create a AWS WAF rate-based rule, and attach it to the security group of the EC2 instances.

Answer: A

NEW QUESTION 46
A Security Architect has been asked to review an existing security architecture and identify why the application servers cannot successfully initiate a connection to the database servers. The following summary describes the architecture:
* 1 An Application Load Balancer, an internet gateway, and a NAT gateway are configured in the public subnet

* 2. Database, application, and web servers are configured on three different private subnets.
* 3 The VPC has two route tables: one for the public subnet and one for all other subnets The route table for the public subnet has a 0 0 0 0/0 route to the internet gateway The route table for all other subnets has a 0 0.0.0/0 route to the NAT gateway. All private subnets can route to each other
* 4 Each subnet has a network ACL implemented that limits all inbound and outbound connectivity to only the required ports and protocols
* 5 There are 3 Security Groups (SGs) database application and web Each group limits all inbound and outbound connectivity to the minimum required
Which of the following accurately reflects the access control mechanisms the Architect should verify1?

A. Outbound SG configuration on database servers Inbound SG configuration on application servers inbound and outbound network ACL configuration on the database subnet Inbound and outbound network ACL configuration on the application server subnet
B. Inbound SG configuration on database servers Outbound SG configuration on application serversInbound and outbound network ACL configuration on the database subnetInbound and outbound network ACL configuration on the application server subnet
C. Inbound and outbound SG configuration on database servers Inbound and outbound SG configuration on application servers Inbound network ACL configuration on the database subnet Outbound network ACL configuration on the application server subnet
D. Inbound SG configuration on database servers Outbound SG configuration on application servers Inbound network ACL configuration on the database subnet Outbound network ACL configuration on the application server subnet.

Answer: A

Explanation:
this is the accurate reflection of the access control mechanisms that the Architect should verify. Access control mechanisms are methods that regulate who can access what resources and how. Security groups and network ACLs are two types of access control mechanisms that can be applied to EC2 instances and subnets. Security groups are stateful, meaning they remember and return traffic that was previously allowed. Network ACLs are stateless, meaning they do not remember or return traffic that was previously allowed. Security groups and network ACLs can have inbound and outbound rules that specify the source, destination, protocol, and port of the traffic. By verifying the outbound security group configuration on database servers, the inbound security group configuration on application servers, and the inbound and outbound network ACL configuration on both the database and application server subnets, the Architect can check if there are any misconfigurations or conflicts that prevent the application servers from initiating a connection to the database servers. The other options are either inaccurate or incomplete for verifying the access control mechanisms.

NEW QUESTION 48
A company is implementing new compliance requirements to meet customer needs. According to the new requirements the company must not use any Amazon RDS DB instances or DB clusters that lack encryption of the underlying storage. The company needs a solution that will generate an email alert when an unencrypted DB instance or DB cluster is created. The solution also must terminate the unencrypted DB instance or DB cluster.
Which solution will meet these requirements in the MOST operationally efficient manner?

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

Answer: A

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

NEW QUESTION 52
A company is using an AWS Key Management Service (AWS KMS) AWS owned key in its application to encrypt files in an AWS account The company's security team wants the ability to change to new key material for new files whenever a potential key breach occurs A security engineer must implement a solution that gives the security team the ability to change the key whenever the team wants to do so
Which solution will meet these requirements?

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

Answer: A

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

NEW QUESTION 54
A company plans to use AWS Key Management Service (AWS KMS) to implement an encryption strategy to protect data at rest. The company requires client-side encryption for company projects. The company is currently conducting multiple projects to test the company's use of AWS KMS. These tests have led to a sudden increase in the company's AWS resource consumption. The test projects include applications that issue multiple requests each second to KMS endpoints for encryption activities.
The company needs to develop a solution that does not throttle the company's ability to use AWS KMS. The solution must improve key usage for client-side encryption and must be cost optimized. Which solution will meet these requirements?

A. Use keyrings with the AWS Encryption SD
B. Use each keyring individually or combine keyrings into amulti-keyrin
C. Decrypt the data by using a keyring that has the primary key in the multi-keyring.
D. Use data key cachin
E. Use the local cache that the AWS Encryption SDK provides with a caching cryptographic materials manager.
F. Use KMS key rotatio
G. Use a local cache in the AWS Encryption SDK with a caching cryptographic materials manager.
H. Use keyrings with the AWS Encryption SD
I. Use each keyring individually or combine keyrings into a multi-keyrin
J. Use any of the wrapping keys in the multi-keyring to decrypt the data.

Answer: B

Explanation:
The correct answer is B. Use data key caching. Use the local cache that the AWS Encryption SDK provides with a caching cryptographic materials manager.
This answer is correct because data key caching can improve performance, reduce cost, and help the company stay within the service limits of AWS KMS. Data key caching stores data keys and related cryptographic material in a cache, and reuses them for encryption and decryption operations. This reduces the number of requests to AWS KMS endpoints and avoids throttling. The AWS Encryption SDK provides a local cache and a caching cryptographic materials manager (caching CMM) that interacts with the cache and enforces security thresholds that the company can set1.
The other options are incorrect because:

- A. Using keyrings with the AWS Encryption SDK does not address the problem of throttling or cost optimization. Keyrings are used to generate, encrypt, and decrypt data keys, but they do not cache or reuse them. Using each keyring individually or combining them into a multi-keyring does not reduce the number of requests to AWS KMS endpoints2.
- C. Using KMS key rotation does not address the problem of throttling or cost optimization. Key rotation is a security practice that creates new cryptographic material for a KMS key every year, but it does not affect the data that the KMS key protects. Key rotation does not reduce the number of requests to AWS KMS endpoints, and it might incur additional costs for storing multiple versions of key material3.
- D. Using keyrings with the AWS Encryption SDK does not address the problem of throttling or cost optimization, as explained in option A. Moreover, using any of the wrapping keys in the multi-keyring to decrypt the data is not a valid option, because only one of the wrapping keys can decrypt a given data key. The wrapping key that encrypts a data key is stored in the encrypted data key structure, and only that wrapping key can decrypt it4.

References:
1: Data key caching - AWS Encryption SDK 2: Using keyrings - AWS Encryption SDK 3: Rotating AWS KMS keys - AWS Key Management Service 4: How keyrings work - AWS Encryption SDK

NEW QUESTION 59
A company has AWS accounts in an organization in AWS Organizations. The organization includes a dedicated security account.
All AWS account activity across all member accounts must be logged and reported to the dedicated security account. The company must retain all the activity logs in a secure storage location within the dedicated security account for 2 years. No changes or deletions of the logs are allowed.
Which combination of steps will meet these requirements with the LEAST operational overhead? (Select TWO.)

A. In the dedicated security account, create an Amazon S3 bucke
B. Configure S3 Object Lock in compliance mode and a retention period of 2 years on the S3 bucke
C. Set the bucket policy to allow the organization's management account to write to the S3 bucket.
D. In the dedicated security account, create an Amazon S3 bucke
E. Configure S3 Object Lock in compliance mode and a retention period of 2 years on the S3 bucke
F. Set the bucket policy to allow the organization's member accounts to write to the S3 bucket.
G. In the dedicated security account, create an Amazon S3 bucket that has an S3 Lifecycle configuration that expires objects after 2 year
H. Set the bucket policy to allow the organization's member accounts to write to the S3 bucket.
I. Create an AWS Cloud Trail trail for the organizatio
J. Configure logs to be delivered to the logging Amazon S3 bucket in the dedicated security account.
K. Turn on AWS CloudTrail in each accoun
L. Configure logs to be delivered to an Amazon S3 bucket that is created in the organization's management accoun
M. Forward the logs to the S3 bucket in the dedicated security account by using AWS Lambda and Amazon Kinesis Data Firehose.

Answer: BD

Explanation:
The correct answer is B and D. In the dedicated security account, create an Amazon S3 bucket. Configure S3 Object Lock in compliance mode and a retention period of 2 years on the S3 bucket. Set the bucket policy to allow the organization’s member accounts to write to the S3 bucket. Create an AWS CloudTrail trail for the organization. Configure logs to be delivered to the logging Amazon S3 bucket in the dedicated security account.
According to the AWS documentation, AWS CloudTrail is a service that enables governance, compliance, operational auditing, and risk auditing of your AWS account. With CloudTrail, you can log, continuously monitor, and retain account activity related to actions across your AWS infrastructure. CloudTrail provides event history of your AWS account activity, including actions taken through the AWS Management Console, AWS SDKs, command line tools, and other AWS services.
To use CloudTrail with multiple AWS accounts and regions, you need to enable AWS Organizations with all features enabled. This allows you to centrally manage your accounts and apply policies across your organization. You can also use CloudTrail as a service principal for AWS Organizations, which lets you create an organization trail that applies to all accounts in your organization. An organization trail logs events for all AWS Regions and delivers the log files to an S3 bucket that you specify.
To create an organization trail, you need to use an administrator account, such as the organization’s management account or a delegated administrator account. You can then configure the trail to deliver logs to an S3 bucket in the dedicated security account. This will ensure that all account activity across all member accounts and regions is logged and reported to the security account.
According to the AWS documentation, Amazon S3 is an object storage service that offers scalability, data availability, security, and performance. You can use S3 to store and retrieve any amount of data from anywhere on the web. You can also use S3 features such as lifecycle management, encryption, versioning, and replication to optimize your storage.
To use S3 with CloudTrail logs, you need to create an S3 bucket in the dedicated security account that will store the logs from the organization trail. You can then configure S3 Object Lock on the bucket to prevent objects from being deleted or overwritten for a fixed amount of time or indefinitely. You can also enable compliance mode on the bucket, which prevents any user, including the root user in your account, from deleting or modifying a locked object until it reaches its retention date.
To set a retention period of 2 years on the S3 bucket, you need to create a default retention configuration for the bucket that specifies a retention mode (either governance or compliance) and a retention period (either a number of days or a date). You can then set the bucket policy to allow the organization’s member accounts to write to the S3 bucket. This will ensure that all logs are retained in a secure storage location within the security account for 2 years and no changes or deletions are allowed.

Option A is incorrect because setting the bucket policy to allow the organization's management account to write to the S3 bucket is not sufficient, as it will not grant access to the other member accounts in the organization.
Option C is incorrect because using an S3 Lifecycle configuration that expires objects after 2 years is not secure, as it will allow users to delete or modify objects before they expire.
Option E is incorrect because using Lambda and Kinesis Data Firehose to forward logs from one S3 bucket to another is not necessary, as CloudTrail can directly deliver logs to an S3 bucket in another account. It also introduces additional operational overhead and complexity.

NEW QUESTION 63
A corporation is preparing to acquire several companies. A Security Engineer must design a solution to ensure that newly acquired IAM accounts follow the corporation's security best practices. The solution should monitor each Amazon S3 bucket for unrestricted public write access and use IAM managed services.
What should the Security Engineer do to meet these requirements?

A. Configure Amazon Macie to continuously check the configuration of all S3 buckets.
B. Enable IAM Config to check the configuration of each S3 bucket.
C. Set up IAM Systems Manager to monitor S3 bucket policies for public write access.
D. Configure an Amazon EC2 instance to have an IAM role and a cron job that checks the status of all S3 buckets.

Answer: C

Explanation:
because this is a solution that can monitor each S3 bucket for unrestricted public write access and use IAM managed services. S3 is a service that provides object storage in the cloud. Systems Manager is a service that helps you automate and manage your AWS resources. You can use Systems Manager to monitor S3 bucket policies for public write access by using a State Manager association that runs a predefined document called AWS-FindS3BucketWithPublicWriteAccess. This document checks each S3 bucket in an account and reports any bucket that has public write access enabled. The other options are either not suitable or not feasible for meeting the requirements.

NEW QUESTION 66
A company has several workloads running on AWS. Employees are required to authenticate using on-premises ADFS and SSO to access the AWS Management Console. Developers migrated an existing legacy web application to an Amazon EC2 instance. Employees need to access this application from anywhere on the internet, but currently, there is no authentication system built into the application.
How should the Security Engineer implement employee-only access to this system without changing the application?

A. Place the application behind an Application Load Balancer (ALB). Use Amazon Cognito as authentication for the AL
B. Define a SAML-based Amazon Cognito user pool and connect it to ADFS.
C. Implement AWS SSO in the master account and link it to ADFS as an identity provide
D. Define the EC2 instance as a managed resource, then apply an IAM policy on the resource.
E. Define an Amazon Cognito identity pool, then install the connector on the Active Directory serve
F. Use the Amazon Cognito SDK on the application instance to authenticate the employees using their Active Directory user names and passwords.
G. Create an AWS Lambda custom authorizer as the authenticator for a reverse proxy on Amazon EC2.Ensure the security group on Amazon EC2 only allows access from the Lambda function.

Answer: A

Explanation:
https://docs.aws.amazon.com/elasticloadbalancing/latest/application/listener-authenticate-users.html

NEW QUESTION 70
A security team is developing an application on an Amazon EC2 instance to get objects from an Amazon S3 bucket. All objects in the S3 bucket are encrypted with an AWS Key Management Service (AWS KMS) customer managed key. All network traffic for requests that are made within the VPC is restricted to the AWS infrastructure. This traffic does not traverse the public internet.
The security team is unable to get objects from the S3 bucket Which factors could cause this issue? (Select THREE.)

A. The IAM instance profile that is attached to the EC2 instance does not allow the s3 ListBucket action to the S3: bucket in the AWS accounts.
B. The I AM instance profile that is attached to the EC2 instance does not allow the s3 ListParts action to the S3; bucket in the AWS accounts.
C. The KMS key policy that encrypts the object in the S3 bucket does not allow the kms; ListKeys action to the EC2 instance profile ARN.
D. The KMS key policy that encrypts the object in the S3 bucket does not allow the kms Decrypt action to the EC2 instance profile ARN.
E. The security group that is attached to the EC2 instance is missing an outbound rule to the S3 managed prefix list over port 443.
F. The security group that is attached to the EC2 instance is missing an inbound rule from the S3 managed prefix list over port 443.

Answer: ADE

Explanation:
https://docs.aws.amazon.com/vpc/latest/userguide/security-group-rules.html
To get objects from an S3 bucket that are encrypted with a KMS customer managed key, the security team needs to have the following factors in place:

- The IAM instance profile that is attached to the EC2 instance must allow the s3:GetObject action to the S3 bucket or object in the AWS account. This permission is required to read the object from S3. Option A is incorrect because it specifies the s3:ListBucket action, which is only required to list the objects in the bucket, not to get them.
- The KMS key policy that encrypts the object in the S3 bucket must allow the kms:Decrypt action to the EC2 instance profile ARN. This permission is required to decrypt the object using the KMS key. Option D is correct.
- The security group that is attached to the EC2 instance must have an outbound rule to the S3 managed prefix list over port 443. This rule is required to allow HTTPS traffic from the EC2 instance to S3 within the AWS infrastructure. Option E is correct. Option B is incorrect because it specifies the s3:ListParts action, which is only required for multipart uploads, not for getting objects. Option C is incorrect

because it specifies the kms:ListKeys action, which is not required for getting objects. Option F is incorrect because it specifies an inbound rule from the S3 managed prefix list, which is not required for getting objects. Verified References:

- https://docs.aws.amazon.com/kms/latest/developerguide/control-access.html
- https://docs.aws.amazon.com/vpc/latest/userguide/vpc-endpoints-s3.html

NEW QUESTION 71
A company is attempting to conduct forensic analysis on an Amazon EC2 instance, but the company is unable to connect to the instance by using AWS Systems Manager Session Manager. The company has installed AWS Systems Manager Agent (SSM Agent) on the EC2 instance.
The EC2 instance is in a subnet in a VPC that does not have an internet gateway attached. The company has associated a security group with the EC2 instance. The security group does not have inbound or outbound rules. The subnet's network ACL allows all inbound and outbound traffic.
Which combination of actions will allow the company to conduct forensic analysis on the EC2 instance without compromising forensic data? (Select THREE.)

A. Update the EC2 instance security group to add a rule that allows outbound traffic on port 443 for 0.0.0.0/0.
B. Update the EC2 instance security group to add a rule that allows inbound traffic on port 443 to the VPC's CIDR range.
C. Create an EC2 key pai
D. Associate the key pair with the EC2 instance.
E. Create a VPC interface endpoint for Systems Manager in the VPC where the EC2 instance is located.
F. Attach a security group to the VPC interface endpoin
G. Allow inbound traffic on port 443 to the VPC's CIDR range.
H. Create a VPC interface endpoint for the EC2 instance in the VPC where the EC2 instance is located.

Answer: BCF

NEW QUESTION 76
A company wants to monitor the deletion of AWS Key Management Service (AWS KMS) customer managed keys. A security engineer needs to create an alarm that will notify the company before a KMS key is deleted. The security engineer has configured the integration of AWS CloudTrail with Amazon CloudWatch.
What should the security engineer do next to meet these requirements?

A. Specify the deletion time of the key material during KMS key creatio
B. Create a custom AWS Config rule to assess the key's scheduleddeletio
C. Configure the rule to trigger upon a configuration chang
D. Send a message to an Amazon Simple Notification Service (Amazon SNS) topic if the key is scheduled for deletion.
E. Create an Amazon EventBridge rule to detect KMS API calls of DeleteAlia
F. Create an AWS Lambda function to send an Amazon Simple Notification Service (Amazon SNS) message to the compan
G. Add the Lambda function as the target of the EventBridge rule.
H. Create an Amazon EventBridge rule to detect KMS API calls of DisableKey and ScheduleKeyDeletion.Create an AWS Lambda function to send an Amazon Simple Notification Service (Amazon SNS) message to the compan
I. Add the Lambda function as the target of the EventBridge rule.
J. Create an Amazon Simple Notification Service (Amazon SNS) policy to detect KMS API calls of RevokeGrant and ScheduleKeyDeletion.Create an AWS Lambda function to generate the alarm and send the notification to the compan
K. Add the Lambda function as the target of the SNS policy.

Answer: C

Explanation:
The AWS documentation states that you can create an Amazon EventBridge rule to detect KMS API calls of DisableKey and ScheduleKeyDeletion. You can then create an AWS Lambda function to send an Amazon Simple Notification Service (Amazon SNS) message to the company. You can add the Lambda function as the target of the EventBridge rule. This method will meet the requirements.
References: : AWS KMS Developer Guide

NEW QUESTION 81
A company uses AWS Organizations to manage several AWs accounts. The company processes a large volume of sensitive data. The company uses a serverless approach to microservices. The company stores all the data in either Amazon S3 or Amazon DynamoDB. The company reads the data by using either AWS lambda functions or container-based services that the company hosts on Amazon Elastic Kubernetes Service (Amazon EKS) on AWS Fargate.
The company must implement a solution to encrypt all the data at rest and enforce least privilege data access controls. The company creates an AWS Key Management Service (AWS KMS) customer managed key.
What should the company do next to meet these requirements?

A. Create a key policy that allows the kms:Decrypt action only for Amazon S3 and DynamoD
B. Create an SCP that denies the creation of S3 buckets and DynamoDB tables that are not encrypted with the key.
C. Create an 1AM policy that denies the kms:Decrypt action for the ke
D. Create a Lambda function than runs on a schedule to attach the policy to any new role
E. Create an AWS Config rule to send alerts for resources that are not encrypted with the key.
F. Create a key policy that allows the kms:Decrypt action only for Amazon S3, DynamoDB, Lambda, and Amazon EK
G. Create an SCP that denies the creation of S3 buckets and DynamoDB tables that are not encrypted with the key.
H. Create a key policy that allows the kms:Decrypt action only for Amazon S3, DynamoDB, Lambda, and Amazon EK
I. Create an AWS Config rule to send alerts for resources that are not encrypted with the key.

Answer: B

NEW QUESTION 83
A company uses AWS Organizations to manage a small number of AWS accounts. However, the company plans to add 1 000 more accounts soon. The company allows only a centralized security team to create IAM roles for all AWS accounts and teams. Application teams submit requests for IAM roles to the security team. The security team has a backlog of IAM role requests and cannot review and provision the IAM roles quickly.
The security team must create a process that will allow application teams to provision their own IAM roles. The process must also limit the scope of IAM roles and prevent privilege escalation.
Which solution will meet these requirements with the LEAST operational overhead?

A. Create an IAM group for each application tea
B. Associate policies with each IAM grou
C. Provision IAM users for each application team membe
D. Add the new IAM users to the appropriate IAM group by using role-based access control (RBAC).
E. Delegate application team leads to provision IAM rotes for each tea
F. Conduct a quarterly review of the IAM rotes the team leads have provisione
G. Ensure that the application team leads have the appropriate training to review IAM roles.

H. Put each AWS account in its own O
I. Add an SCP to each OU to grant access to only the AWS services that the teams plan to us
J. Include conditions tn the AWS account of each team.
K. Create an SCP and a permissions boundary for IAM role
L. Add the SCP to the root OU so that only roles that have the permissions boundary attached can create any new IAM roles.

Answer: D

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

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

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

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

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

NEW QUESTION 86
A company created an IAM account for its developers to use for testing and learning purposes Because MM account will be shared among multiple teams of developers, the company wants to restrict the ability to stop and terminate Amazon EC2 instances so that a team can perform these actions only on the instances it owns.
Developers were Instructed to tag al their instances with a Team tag key and use the team name in the tag value One of the first teams to use this account is Business Intelligence A security engineer needs to develop a highly scalable solution for providing developers with access to the appropriate resources within the account The security engineer has already created individual IAM roles for each team.
Which additional configuration steps should the security engineer take to complete the task?

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

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

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

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

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

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

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

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

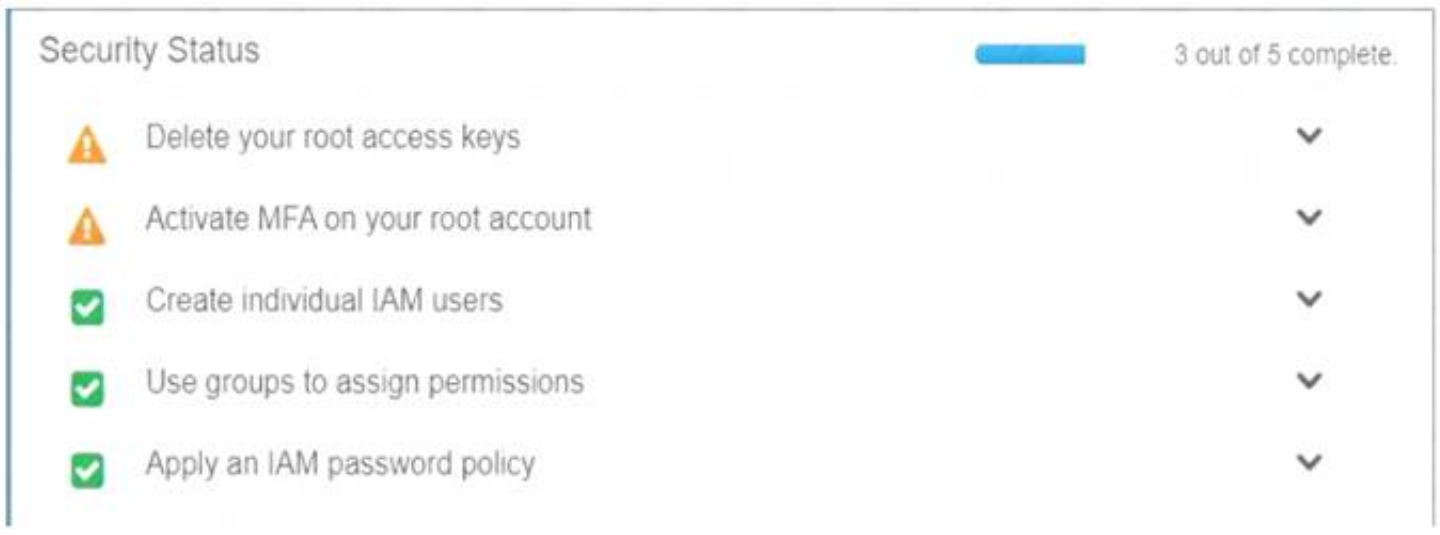
Answer: A

NEW QUESTION 91
Your CTO is very worried about the security of your IAM account. How best can you prevent hackers from completely hijacking your account?
Please select:

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

Answer: C

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



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

NEW QUESTION 95
A security engineer needs to implement a write-once-read-many (WORM) model for data that a company will store in Amazon S3 buckets. The company uses the S3 Standard storage class for all of its S3 buckets. The security engineer must en-sure that objects cannot be overwritten or deleted by any user, including the AWS account root user.
Which solution will meet these requirements?

A. Create new S3 buckets with S3 Object Lock enabled in compliance mod
B. Place objects in the S3 buckets.
C. Use S3 Glacier Vault Lock to attach a Vault Lock policy to new S3 bucket
D. Wait 24 hours to complete the Vault Lock proces
E. Place objects in the S3 buckets.
F. Create new S3 buckets with S3 Object Lock enabled in governance mod
G. Place objects in the S3 buckets.
H. Create new S3 buckets with S3 Object Lock enabled in governance mod
I. Add a legal hold to the S3 bucket
J. Place objects in the S3 buckets.

Answer: A

NEW QUESTION 99
Your company is planning on using bastion hosts for administering the servers in IAM. Which of the following is the best description of a bastion host from a security perspective?
Please select:

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

Answer: C

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

NEW QUESTION 104
A Network Load Balancer (NLB) target instance is not entering the InService state. A security engineer determines that health checks are failing.
Which factors could cause the health check failures? (Select THREE.)

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

Answer: ACD

NEW QUESTION 108

A company recently had a security audit in which the auditors identified multiple potential threats. These potential threats can cause usage pattern changes such as DNS access peak, abnormal instance traffic, abnormal network interface traffic, and unusual Amazon S3 API calls. The threats can come from different sources and can occur at any time. The company needs to implement a solution to continuously monitor its system and identify all these incoming threats in near-real time. Which solution will meet these requirements?

A. Enable AWS CloudTrail logs, VPC flow logs, and DNS log
B. Use Amazon CloudWatch Logs to manage these logs from a centralized account.
C. Enable AWS CloudTrail logs, VPC flow logs, and DNS log
D. Use Amazon Macie to monitor these logs from a centralized account.
E. Enable Amazon GuardDuty from a centralized accoun
F. Use GuardDuty to manage AWS CloudTrail logs, VPC flow logs, and DNS logs.
G. Enable Amazon Inspector from a centralized accoun
H. Use Amazon Inspector to manage AWS CloudTrail logs, VPC flow logs, and DNS logs.

Answer: C

Explanation:
Q: Which data sources does GuardDuty analyze? GuardDuty analyzes CloudTrail management event logs, CloudTrail S3 data event logs, VPC Flow Logs, DNS query logs, and Amazon EKS audit logs. GuardDuty can also scan EBS volume data for possible malware when GuardDuty Malware Protection is enabled and identifies suspicious behavior indicative of malicious software in EC2 instance or container workloads. The service is optimized to consume large data volumes for near real-time processing of security detections. GuardDuty gives you access to built-in detection techniques developed and optimized for the cloud, which are maintained and continuously improved upon by GuardDuty engineering.

NEW QUESTION 110
A company is implementing a new application in a new IAM account. A VPC and subnets have been created for the application. The application has been peered to an existing VPC in another account in the same IAM Region for database access. Amazon EC2 instances will regularly be created and terminated in the application VPC, but only some of them will need access to the databases in the peered VPC over TCP port 1521. A security engineer must ensure that only the EC2 instances that need access to the databases can access them through the network.
How can the security engineer implement this solution?

A. Create a new security group in the database VPC and create an inbound rule that allows all traffic from the IP address range of the application VP
B. Add a new network ACL rule on the database subnet
C. Configure the rule to TCP port 1521 from the IP address range of the application VP
D. Attach the new security group to the database instances that the application instances need to access.
E. Create a new security group in the application VPC with an inbound rule that allows the IP address range of the database VPC over TCP port 1521. Create a new security group in the database VPC with an inbound rule that allows the IP address range of the application VPC over port 1521. Attach the new security group to the database instances and the application instances that need database access.
F. Create a new security group in the application VPC with no inbound rule
G. Create a new security group in the database VPC with an inbound rule that allows TCP port 1521 from the new application security group in the application VP
H. Attach the application security group to the application instances that need database access, and attach the database security group to the database instances.
I. Create a new security group in the application VPC with an inbound rule that allows the IP address range of the database VPC over TCP port 1521. Add a new network ACL rule on the database subnet
J. Configure the rule to allow all traffic from the IP address range of the application VP
K. Attach the new security group to the application instances that need database access.

Answer: C

NEW QUESTION 111
A security engineer is troubleshooting an AWS Lambda function that is named MyLambdaFunction. The function is encountering an error when the function attempts to read the objects in an Amazon S3 bucket that is named DOC-EXAMPLE-BUCKET. The S3 bucket has the following bucket policy:

```
{
    "Effect": "Allow",
    "Principal": {
        "Service": "lambda.amazonaws.com"
    },
    "Action": "s3:GetObject",
    "Resource": "arn:aws:s3:::DOC-EXAMPLE-BUCKET",
    "Condition": {
        "ArnLike": {
            "aws:SourceArn": "arn:aws:lambda:::function:MyLambdaFunction"
        }
    }
}
```

Which change should the security engineer make to the policy to ensure that the Lambda function can read the bucket objects?

A. Remove the Condition elemen
B. Change the Principal element to the following:{“AWS”: “arn "aws" ::: lambda ::: function:MyLambdaFunction”}
C. Change the Action element to the following: " s3:GetObject*"" s3:GetBucket*"
D. Change the Resource element to "arn:aws:s3:::DOC-EXAMPLE-BUCKET/*".
E. Change the Resource element to "arn:aws:lambda:::function:MyLambdaFunction". Change the Principal element to the following:{“Service”: “s3.amazonaws.com”}

Answer: C

Explanation:
The correct answer is C. Change the Resource element to “arn:aws:s3:::DOC-EXAMPLE-BUCKET/*”.
The reason is that the Resource element in the bucket policy specifies which objects in the bucket are affected by the policy. In this case, the policy only applies to the bucket itself, not the objects inside it. Therefore, the Lambda function cannot access the objects with the s3:GetObject permission. To fix this, the Resource element should include a wildcard (*) to match all objects in the bucket. This way, the policy grants the Lambda function permission to read any object in the bucket.
The other options are incorrect for the following reasons:

- A. Removing the Condition element would not help, because it only restricts access based on the source IP address of the request. The Principal element should not be changed to the Lambda function ARN, because it specifies who is allowed or denied access by the policy. The policy should allow access to any principal ("*") and rely on IAM roles or policies to control access to the Lambda function.
- B. Changing the Action element to include s3:GetBucket* would not help, because it would grant additional permissions that are not needed by the Lambda function, such as s3:GetBucketAcl or s3:GetBucketPolicy. The s3:GetObject* permission is sufficient for reading objects in the bucket.
- D. Changing the Resource element to the Lambda function ARN would not make sense, because it would mean that the policy applies to the Lambda function itself, not the bucket or its objects. The Principal element should not be changed to s3.amazonaws.com, because it would grant access to any AWS service that uses S3, not just Lambda.

NEW QUESTION 113
A developer is building a serverless application hosted on AWS that uses Amazon Redshift as a data store The application has separate modules for readwrite and read-only functionality The modules need their own database users for compliance reasons
Which combination of steps should a security engineer implement to grant appropriate access? (Select TWO.)

A. Configure cluster security groups for each application module to control access to database users that are required for read-only and readwrite
B. Configure a VPC endpoint for Amazon Redshift Configure an endpoint policy that maps database users to each application module, and allow access to the tables that are required for read-only and read/write
C. Configure an 1AM policy for each module Specify the ARN of an Amazon Redshift database user that allows the GetClusterCredentials API call
D. Create local database users for each module
E. Configure an 1AM policy for each module Specify the ARN of an 1AM user that allows the GetClusterCredentials API call

Answer: A

Explanation:
To grant appropriate access to separate modules for read-write and read-only functionality in a serverless
application hosted on AWS that uses Amazon Redshift as a data store, a security engineer should configure cluster security groups for each application module to control access to database users that are required for read-only and readwrite, and configure an IAM policy for each module specifying the ARN of an IAM user that allows the GetClusterCredentials API call.
References: : Amazon Redshift - Amazon Web Services : Amazon Redshift - Amazon Web Services : Identity and Access Management - AWS Management Console : AWS Identity and Access Management - AWS Management Console

NEW QUESTION 114
A company uses Amazon GuardDuty. The company's security team wants all High severity findings to automatically generate a ticket in a third-party ticketing system through email integration.
Which solution will meet this requirement?

A. Create a verified identity for the third-party ticketing email system in Amazon Simple Email Service (Amazon SES). Create an Amazon EventBridge rule that includes an event pattern that matches High severity GuardDuty finding
B. Specify the SES identity as the target for the EventBridge rule.
C. Create an Amazon Simple Notification Service (Amazon SNS) topi
D. Subscribe the third-party ticketing email system to the SNS topi
E. Create an Amazon EventBridge rule that includes an event pattern that matches High severity GuardDuty finding
F. Specify the SNS topic as the target for the EventBridge rule.
G. Use the GuardDuty CreateFilter API operation to build a filter in GuardDuty to monitor for High severity finding
H. Export the results of the filter to an Amazon Simple Notification Service (Amazon SNS) topi
I. Subscribe the third-party ticketing email system to the SNS topic.
J. Use the GuardDuty CreateFilter API operation to build a filter in GuardDuty to monitor for High severity finding
K. Create an Amazon Simple Notification Service (Amazon SNS) topi
L. Subscribe the third-party ticketing email system to the SNS topi
M. Create an Amazon EventBridge rule that includes an event pattern that matches GuardDuty findings that are selected by the filte
N. Specify the SNS topic as the target for the EventBridge rule.

Answer: B

Explanation:
The correct answer is B. Create an Amazon Simple Notification Service (Amazon SNS) topic. Subscribe the third-party ticketing email system to the SNS topic. Create an Amazon EventBridge rule that includes an event pattern that matches High severity GuardDuty findings. Specify the SNS topic as the target for the Event-Bridge rule.
According to the AWS documentation1, you can use Amazon EventBridge to create rules that match events from GuardDuty and route them to targets such as Amazon SNS topics. You can use event patterns to filter events based on criteria such as severity, type, or resource. For example, you can create a rule that matches only High severity findings and sends them to an SNS topic that is subscribed by a third-party ticketing email system. This way, you can automate the creation of tickets for High severity findings and notify the security team.

NEW QUESTION 117
A company has a single AWS account and uses an Amazon EC2 instance to test application code. The company recently discovered that the instance was compromised. The instance was serving up malware. The analysis of the instance showed that the instance was compromised 35 days ago.
A security engineer must implement a continuous monitoring solution that automatically notifies the company’s security team about compromised instances through an email distribution list for high severity findings. The security engineer must implement the solution as soon as possible.
Which combination of steps should the security engineer take to meet these requirements? (Choose three.)

A. Enable AWS Security Hub in the AWS account.
B. Enable Amazon GuardDuty in the AWS account.

C. Create an Amazon Simple Notification Service (Amazon SNS) topi
D. Subscribe the security team's email distribution list to the topic.
E. Create an Amazon Simple Queue Service (Amazon SQS) queu
F. Subscribe the security team's email distribution list to the queue.
G. Create an Amazon EventBridge (Amazon CloudWatch Events) rule for GuardDuty findings of high severit
H. Configure the rule to publish a message to the topic.
I. Create an Amazon EventBridge (Amazon CloudWatch Events) rule for Security Hub findings of high severit
J. Configure the rule to publish a message to the queue.

Answer: BCE

NEW QUESTION 119
A company wants to remove all SSH keys permanently from a specific subset of its Amazon Linux 2 Amazon EC2 instances that are using the same 1AM instance profile However three individuals who have IAM user accounts will need to access these instances by using an SSH session to perform critical duties
How can a security engineer provide the access to meet these requirements'?

A. Assign an 1AM policy to the instance profile to allow the EC2 instances to be managed by AWS Systems Manager Provide the 1AM user accounts with permission to use Systems Manager Remove the SSH keys from the EC2 instances Use Systems Manager Inventory to select the EC2 instance and connect
B. Assign an 1AM policy to the 1AM user accounts to provide permission to use AWS Systems Manager Run Command Remove the SSH keys from the EC2 instances Use Run Command to open an SSH connection to the EC2 instance
C. Assign an 1AM policy to the instance profile to allow the EC2 instances to be managed by AWS Systems Manager Provide the 1AM user accounts with permission to use Systems Manager Remove the SSH keys from the EC2 instances Use Systems Manager Session Manager to select the EC2 instance and connect
D. Assign an 1AM policy to the 1AM user accounts to provide permission to use the EC2 service in the AWS Management Console Remove the SSH keys from the EC2 instances Connect to the EC2 instance as the ec2-user through the AWS Management Console's EC2 SSH client method

Answer: C

Explanation:
To provide access to the three individuals who have IAM user accounts to access the Amazon Linux 2 Amazon EC2 instances that are using the same IAM instance profile, the most appropriate solution would be to assign an IAM policy to the instance profile to allow the EC2 instances to be managed by AWS Systems Manager, provide the IAM user accounts with permission to use Systems Manager, remove the SSH keys from the EC2 instances, and use Systems Manager Session Manager to select the EC2 instance and connect.
References: : AWS Systems Manager Session Manager - AWS Systems Manager : AWS Systems Manage AWS Management Console : AWS Identity and Access Management - AWS Management Console : Am Elastic Compute Cloud - Amazon Web Services : Amazon Linux 2 - Amazon Web Services : AWS Syst Manager - AWS Management Console : AWS Systems Manager - AWS Management Console : AWS Systems Manager - AWS Management Console

NEW QUESTION 121
Your CTO thinks your IAM account was hacked. What is the only way to know for certain if there was unauthorized access and what they did, assuming your hackers are very sophisticated IAM engineers and doing everything they can to cover their tracks?
Please select:

A. Use CloudTrail Log File Integrity Validation.
B. Use IAM Config SNS Subscriptions and process events in real time.
C. Use CloudTrail backed up to IAM S3 and Glacier.
D. Use IAM Config Timeline forensics.

Answer: A

Explanation:
The IAM Documentation mentions the following
To determine whether a log file was modified, deleted, or unchanged after CloudTrail delivered it you can use CloudTrail log file integrity validation. This feature is built using industry standard algorithms: SHA-256 for hashing and SHA-256 with RSA for digital signing. This makes it computationally infeasible to modify, delete or forge CloudTrail log files without detection. You can use the IAM CLI to validate the files in the location where CloudTrail delivered them
Validated log files are invaluable in security and forensic investigations. For example, a validated log file enables you to assert positively that the log file itself has not changed, or that particular user credentials performed specific API activity. The CloudTrail log file integrity validation process also lets you know if a log file has been deleted or changed, or assert positively that no log files were delivered to your account during a given period of time.
Options B.C and D is invalid because you need to check for log File Integrity Validation for cloudtrail logs For more information on Cloudtrail log file validation, please visit the below URL: http://docs.IAM.amazon.com/IAMcloudtrail/latest/userguide/cloudtrail-log-file-validation-intro.html
The correct answer is: Use CloudTrail Log File Integrity Validation. omit your Feedback/Queries to our Expert

NEW QUESTION 123
A company uses an external identity provider to allow federation into different IAM accounts. A security engineer for the company needs to identify the federated user that terminated a production Amazon EC2 instance a week ago.
What is the FASTEST way for the security engineer to identify the federated user?

A. Review the IAM CloudTrail event history logs in an Amazon S3 bucket and look for the TerminateInstances event to identify the federated user from the role session name.
B. Filter the IAM CloudTrail event history for the TerminateInstances event and identify the assumed IAM rol
C. Review the AssumeRoleWithSAML event call in CloudTrail to identify the corresponding username.
D. Search the IAM CloudTrail logs for the TerminateInstances event and note the event tim
E. Review the IAM Access Advisor tab for all federated role
F. The last accessed time should match the time when the instance was terminated.
G. Use Amazon Athena to run a SQL query on the IAM CloudTrail logs stored in an Amazon S3 bucket and filter on the TerminateInstances even
H. Identify the corresponding role and run another query to filter the AssumeRoleWithWebIdentity event for the user name.

Answer: B

Explanation:
The fastest way to identify the federated user who terminated a production Amazon EC2 instance is to filter the IAM CloudTrail event history for the

TerminateInstances event and identify the assumed IAM role. Then, review the AssumeRoleWithSAML event call in CloudTrail to identify the corresponding username. This method does not require any additional tools or queries, and it directly links the IAM role with the federated user.
Option A is incorrect because the role session name may not be the same as the federated user name, and it may not be unique or descriptive enough to identify the user.
Option C is incorrect because the IAM Access Advisor tab only shows when a role was last accessed, not by whom or for what purpose. It also does not show the specific time of access, only the date.
Option D is incorrect because using Amazon Athena to run SQL queries on the IAM CloudTrail logs is not the fastest way to identify the federated user, as it requires creating a table schema and running multiple queries. It also assumes that the federation is done using web identity providers, not SAML providers, as indicated by the AssumeRoleWithWebIdentity event.
References:

- AWS Identity and Access Management
- Logging AWS STS API Calls with AWS CloudTrail
- [Using Amazon Athena to Query S3 Data for CloudTrail Analysis]

NEW QUESTION 125
A Security Engineer is building a Java application that is running on Amazon EC2. The application communicates with an Amazon RDS instance and authenticates with a user name and password.
Which combination of steps can the Engineer take to protect the credentials and minimize downtime when the credentials are rotated? (Choose two.)

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

Answer: CE

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

NEW QUESTION 129
A security engineer receives a notice from the AWS Abuse team about suspicious activity from a Linux-based Amazon EC2 instance that uses Amazon Elastic Block Store (Amazon EBS>-based storage The instance is making connections to known malicious addresses
The instance is in a development account within a VPC that is in the us-east-1 Region The VPC contains an internet gateway and has a subnet in us-east-1a and us-easMb Each subnet is associate with a route table that uses the internet gateway as a default route Each subnet also uses the default network ACL The suspicious EC2 instance runs within the us-east-1 b subnet. During an initial investigation a security engineer discovers that the suspicious instance is the only instance that runs in the subnet
Which response will immediately mitigate the attack and help investigate the root cause?

A. Log in to the suspicious instance and use the netstat command to identify remote connections Use the IP addresses from these remote connections to create deny rules in the security group of the instance Install diagnostic tools on the instance for investigation Update the outbound network ACL for the subnet inus-east-lb to explicitly deny all connections as the first rule during the investigation of the instance
B. Update the outbound network ACL for the subnet in us-east-1b to explicitly deny all connections as the first rule Replace the security group with a new security group that allows connections only from a diagnostics security group Update the outbound network ACL for the us-east-1b subnet to remove the deny all rule Launch a new EC2 instance that has diagnostic tools Assign the new security group to the new EC2 instance Use the new EC2 instance to investigate the suspicious instance
C. Ensure that the Amazon Elastic Block Store (Amazon EBS) volumes that are attached to the suspicious EC2 instance will not delete upon termination Terminate the instance Launch a new EC2 instance inus-east-1a that has diagnostic tools Mount the EBS volumes from the terminated instance for investigation
D. Create an AWS WAF web ACL that denies traffic to and from the suspicious instance Attach the AWS WAF web ACL to the instance to mitigate the attack Log in to the instance and install diagnostic tools to investigate the instance

Answer: B

Explanation:
This option suggests updating the outbound network ACL for the subnet in us-east-1b to explicitly deny all connections as the first rule, replacing the security group with a new one that only allows connections from a diagnostics security group, and launching a new EC2 instance with diagnostic tools to investigate the suspicious instance. This option will immediately mitigate the attack and provide the necessary tools for investigation.

NEW QUESTION 133
A company purchased a subscription to a third-party cloud security scanning solution that integrates with AWS Security Hub. A security engineer needs to implement a solution that will remediate the findings
from the third-party scanning solution automatically. Which solution will meet this requirement?

A. Set up an Amazon EventBridge rule that reacts to new Security Hub find-ing

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

Answer: A

NEW QUESTION 137
A company's security engineer is developing an incident response plan to detect suspicious activity in an AWS account for VPC hosted resources. The security engineer needs to provide visibility for as many AWS Regions as possible.
Which combination of steps will meet these requirements MOST cost-effectively? (Select TWO.)

A. Turn on VPC Flow Logs for all VPCs in the account.
B. Activate Amazon GuardDuty across all AWS Regions.
C. Activate Amazon Detective across all AWS Regions.
D. Create an Amazon Simple Notification Service (Amazon SNS) topi
E. Create an Amazon EventBridge rule that responds to findings and publishes the find-ings to the SNS topic.
F. Create an AWS Lambda functio
G. Create an Amazon EventBridge rule that in-vokes the Lambda function to publish findings to Amazon Simple Email Ser-vice (Amazon SES).

Answer: BD

Explanation:
To detect suspicious activity in an AWS account for VPC hosted resources, the security engineer needs to use a service that can monitor network traffic and API calls across all AWS Regions. Amazon GuardDuty is a threat detection service that can do this by analyzing VPC Flow Logs, AWS CloudTrail event logs, and DNS logs. By activating GuardDuty across all AWS Regions, the security engineer can provide visibility for as many regions as possible. GuardDuty generates findings that contain details about the potential threats detected in the account. To respond to these findings, the security engineer needs to create a mechanism that can notify the relevant stakeholders or take remedial actions. One way to do this is to use Amazon EventBridge, which is a serverless event bus service that can connect AWS services and third-party applications. By creating an EventBridge rule that responds to GuardDuty findings and publishes them to an Amazon Simple Notification Service (Amazon SNS) topic, the security engineer can enable subscribers of the topic to receive notifications via email, SMS, or other methods. This is a cost-effective solution that does not require any additional infrastructure or code.

NEW QUESTION 140
What are the MOST secure ways to protect the AWS account root user of a recently opened AWS account? (Select TWO.)

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

Answer: CE

NEW QUESTION 145
A team is using AWS Secrets Manager to store an application database password. Only a limited number of IAM principals within the account can have access to the secret. The principals who require access to the secret change frequently. A security engineer must create a solution that maximizes flexibility and scalability.
Which solution will meet these requirements?

A. Use a role-based approach by creating an IAM role with an inline permissions policy that allows access to the secre
B. Update the IAM principals in the role trust policy as required.
C. Deploy a VPC endpoint for Secrets Manage
D. Create and attach an endpoint policy that specifies the IAM principals that are allowed to access the secre
E. Update the list of IAM principals as required.
F. Use a tag-based approach by attaching a resource policy to the secre
G. Apply tags to the secret and the IAM principal
H. Use the aws:PrincipalTag and aws:ResourceTag IAM condition keys to control access.
I. Use a deny-by-default approach by using IAM policies to deny access to the secret explicitl
J. Attach the policies to an IAM grou
K. Add all IAM principals to the IAM grou
L. Remove principals from the group when they need acces
M. Add the principals to the group again when access is no longer allowed.

Answer: C

NEW QUESTION 148
The Security Engineer is managing a traditional three-tier web application that is running on Amazon EC2 instances. The application has become the target of increasing numbers of malicious attacks from the Internet.
What steps should the Security Engineer take to check for known vulnerabilities and limit the attack surface? (Choose two.)

A. Use AWS Certificate Manager to encrypt all traffic between the client and application servers.
B. Review the application security groups to ensure that only the necessary ports are open.
C. Use Elastic Load Balancing to offload Secure Sockets Layer encryption.
D. Use Amazon Inspector to periodically scan the backend instances.
E. Use AWS Key Management Services to encrypt all the traffic between the client and application servers.

Answer: BD

Explanation:
The steps that the Security Engineer should take to check for known vulnerabilities and limit the attack surface are:

- B. Review the application security groups to ensure that only the necessary ports are open. This is a good practice to reduce the exposure of the EC2 instances to potential attacks from the Internet. Application security groups are a feature of Azure that allow you to group virtual machines and define network security policies based on those groups1.
- D. Use Amazon Inspector to periodically scan the backend instances. This is a service that helps you to identify vulnerabilities and exposures in your EC2 instances and applications. Amazon Inspector can perform automated security assessments based on predefined or custom rules packages2.

NEW QUESTION 153
A company has hundreds of AWS accounts in an organization in AWS Organizations. The company operates out of a single AWS Region. The company has a dedicated security tooling AWS account in the organization. The security tooling account is configured as the organization's delegated administrator for Amazon GuardDuty and AWS Security Hub. The company has configured the environment to automatically enable GuardDuty and Security Hub for existing AWS accounts and new AWS accounts.
The company is performing control tests on specific GuardDuty findings to make sure that the company's security team can detect and respond to security events. The security team launched an Amazon EC2 instance and attempted to run DNS requests against a test domain, example.com, to generate a DNS finding. However, the GuardDuty finding was never created in the Security Hub delegated administrator account.
Why was the finding was not created in the Security Hub delegated administrator account?

A. VPC flow logs were not turned on for the VPC where the EC2 instance was launched.
B. The VPC where the EC2 instance was launched had the DHCP option configured for a custom OpenDNS resolver.
C. The GuardDuty integration with Security Hub was never activated in the AWS account where the finding was generated.
D. Cross-Region aggregation in Security Hub was not configured.

Answer: C

Explanation:
The correct answer is C. The GuardDuty integration with Security Hub was never activated in the AWS account where the finding was generated.
According to the AWS documentation1, GuardDuty findings are automatically sent to Security Hub only if the GuardDuty integration with Security Hub is enabled in the same account and Region. This means that the security tooling account, which is the delegated administrator for both GuardDuty and Security Hub, must enable the GuardDuty integration with Security Hub in each member account and Region where GuardDuty is enabled. Otherwise, the findings from GuardDuty will not be visible in Security Hub.
The other options are incorrect because:

- VPC flow logs are not required for GuardDuty to generate DNS findings. GuardDuty uses VPC DNS logs, which are automatically enabled for all VPCs, to detect malicious or unauthorized DNS activity.
- The DHCP option configured for a custom OpenDNS resolver does not affect GuardDuty’s ability to generate DNS findings. GuardDuty uses its own threat intelligence sources to identify malicious domains, regardless of the DNS resolver used by the EC2 instance.
- Cross-Region aggregation in Security Hub is not relevant for this scenario, because the company operates out of a single AWS Region. Cross-Region aggregation allows Security Hub to aggregate findings from multiple Regions into a single Region.

References:
1: Managing GuardDuty accounts with AWS Organizations : Amazon GuardDuty Findings : How Amazon GuardDuty Works : Cross-Region aggregation in AWS Security Hub

NEW QUESTION 156
A company is using AWS Organizations to implement a multi-account strategy. The company does not have on-premises infrastructure. All workloads run on AWS. The company currently has eight member accounts. The company anticipates that it will have no more than 20 AWS accounts total at any time.
The company issues a new security policy that contains the following requirements:
• No AWS account should use a VPC within the AWS account for workloads.
• The company should use a centrally managed VPC that all AWS accounts can access to launch workloads in subnets.
• No AWS account should be able to modify another AWS account's application resources within the centrally managed VPC.
• The centrally managed VPC should reside in an existing AWS account that is named Account-A within an organization.
The company uses an AWS CloudFormation template to create a VPC that contains multiple subnets in Account-A. This template exports the subnet IDs through the CloudFormation Outputs section.
Which solution will complete the security setup to meet these requirements?

A. Use a CloudFormation template in the member accounts to launch workload
B. Configure the template to use the Fn::ImportValue function to obtain the subnet ID values.
C. Use a transit gateway in the VPC within Account-
D. Configure the member accounts to use the transit gateway to access the subnets in Account-A to launch workloads.
E. Use AWS Resource Access Manager (AWS RAM) to share Account-A's VPC subnets with the remaining member account
F. Configure the member accounts to use the shared subnets to launch workloads.
G. Create a peering connection between Account-A and the remaining member account
H. Configure the member accounts to use the subnets in Account-A through the VPC peering connection to launch workloads.

Answer: C

Explanation:
The correct answer is C. Use AWS Resource Access Manager (AWS RAM) to share Account-A’s VPC
subnets with the remaining member accounts. Configure the member accounts to use the shared subnets to launch workloads.
This answer is correct because AWS RAM is a service that helps you securely share your AWS resources across AWS accounts, within your organization or organizational units (OUs), and with IAM roles and users for supported resource types1. One of the supported resource types is VPC subnets2, which means you can share the subnets in Account-A’s VPC with the other member accounts using AWS RAM. This way, you can meet the requirements of using a centrally managed VPC, avoiding duplicate VPCs in each account, and launching workloads in shared subnets. You can also control the access to the shared subnets by using IAM policies and resource-based policies3, which can prevent one account from modifying another account’s resources.
The other options are incorrect because:

- A. Using a CloudFormation template in the member accounts to launch workloads and using the Fn::ImportValue function to obtain the subnet ID values is not a solution, because Fn::ImportValue can only import values that have been exported by another stack within the same region4. This means that you cannot use Fn::ImportValue to reference the subnet IDs that are exported by Account-A’s CloudFormation template, unless all the member accounts are in the same region as Account-A. This option also does not avoid creating duplicate VPCs in each account, which is one of the requirements.

B. Using a transit gateway in the VPC within Account-A and configuring the member accounts to use the transit gateway to access the subnets in Account-A to launch workloads is not a solution, because a transit gateway does not allow you to launch workloads in another account's subnets. A transit gateway is a network transit hub that enables you to route traffic between your VPCs and on-premises networks5, but it does not enable you to share subnets across accounts.

D. Creating a peering connection between Account-A and the remaining member accounts and configuring the member accounts to use the subnets in Account-A through the VPC peering connection to launch workloads is not a solution, because a VPC peering connection does not allow you to launch workloads in another account's subnets. A VPC peering connection is a networking connection between two VPCs that enables you to route traffic between them privately6, but it does not enable you to share subnets across accounts.

References:

1: What is AWS Resource Access Manager? 2: Shareable AWS resources 3: Managing permissions for shared resources 4: Fn::ImportValue 5: What is a transit gateway? 6: What is VPC peering?

NEW QUESTION 160

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