

Amazon-Web-Services

Exam Questions SCS-C02

AWS Certified Security - Specialty



NEW QUESTION 1

- (Exam Topic 1)

A Security Engineer has been asked to troubleshoot inbound connectivity to a web server. This single web server is not receiving inbound connections from the internet, whereas all other web servers are functioning properly.

The architecture includes network ACLs, security groups, and a virtual security appliance. In addition, the Development team has implemented Application Load Balancers (ALBs) to distribute the load across all web servers. It is a requirement that traffic between the web servers and the internet flow through the virtual security appliance.

The Security Engineer has verified the following:

- * 1. The rule set in the Security Groups is correct
- * 2. The rule set in the network ACLs is correct
- * 3. The rule set in the virtual appliance is correct

Which of the following are other valid items to troubleshoot in this scenario? (Choose two.)

- A. Verify that the 0.0.0.0/0 route in the route table for the web server subnet points to a NAT gateway.
- B. Verify which Security Group is applied to the particular web server's elastic network interface (ENI).
- C. Verify that the 0.0.0.0/0 route in the route table for the web server subnet points to the virtual security appliance.
- D. Verify the registered targets in the ALB.
- E. Verify that the 0.0.0.0/0 route in the public subnet points to a NAT gateway.

Answer: CD

Explanation:

<https://docs.IAM.amazon.com/IAMEC2/latest/UserGuide/using-eni.html>

NEW QUESTION 2

- (Exam Topic 1)

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

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

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

Answer: BC

NEW QUESTION 3

- (Exam Topic 1)

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

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

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

Answer: AE

NEW QUESTION 4

- (Exam Topic 1)

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

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

Answer: ACD

NEW QUESTION 5

- (Exam Topic 1)

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

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

- A. Update the password length policy In the on-premises Active Directory configuration.
- B. Update the password length policy In the IAM configuration.
- C. Enforce an IAM policy In Amazon Cognito and IAM IAM with a minimum password length condition.

- D. Update the password length policy in the Amazon Cognito configuration.
- E. Create an SCP with IAM Organizations that enforces a minimum password length for IAM IAM and Amazon Cognito.

Answer: AD

NEW QUESTION 6

- (Exam Topic 1)

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.)

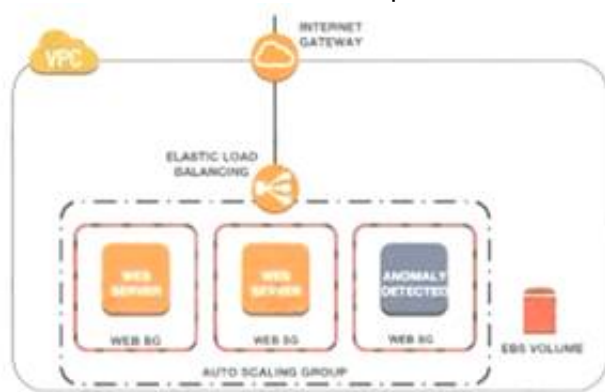
- A. Use IAM Certificate Manager to encrypt all traffic between the client and application servers.
- B. Review the application security groups to ensure that only the necessary ports are open.
- C. Use Elastic Load Balancing to offload Secure Sockets Layer encryption.
- D. Use Amazon Inspector to periodically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

Answer: BD

NEW QUESTION 7

- (Exam Topic 1)

A Security Engineer noticed an anomaly within a company EC2 instance as shown in the image. The Engineer must now investigate what e causing the anomaly. What are the MOST effective steps to take lo ensure that the instance is not further manipulated while allowing the Engineer to understand what happened?



- A. Remove the instance from the Auto Scaling group Place the instance within an isolation security group, detach the EBS volume launch an EC2 instance with a forensic toolkit and attach the E8S volume to investigate
- B. Remove the instance from the Auto Scaling group and the Elastic Load Balancer Place the instance within an isolation security group, launch an EC2 instance with a forensic toolkit, and allow the forensic toolkit image to connect to the suspicious Instance to perform the Investigation.
- C. Remove the instance from the Auto Scaling group Place the Instance within an isolation security group, launch an EC2 Instance with a forensic toolkit and use the forensic toolkit imago to deploy an ENI as a network span port to inspect all traffic coming from the suspicious instance.
- D. Remove the instance from the Auto Scaling group and the Elastic Load Balancer Place the instance within an isolation security group, make a copy of the EBS volume from a new snapshot, launch an EC2 Instance with a forensic toolkit and attach the copy of the EBS volume to investigate.

Answer: B

NEW QUESTION 8

- (Exam Topic 1)

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

Which solution would have the MOST scalability and LOWEST latency?

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

Answer: A

NEW QUESTION 9

- (Exam Topic 1)

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

How should a security engineer resolve these issues?

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

Answer: D

Explanation:

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

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

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

NEW QUESTION 10

- (Exam Topic 1)

A company's security engineer is configuring Amazon S3 permissions to ban all current and future public buckets. However, the company hosts several websites directly off S3 buckets with public access enabled.

The engineer needs to block the public S3 buckets without causing any outages on the existing websites. The engineer has set up an Amazon CloudFront distribution (one for each website).

Which set of steps should the security engineer implement next?

- A. Configure an S3 bucket as the origin and origin access identity (OAI) for the CloudFront distribution. Switch the DNS records from websites to point to the CloudFront distribution. Enable block public access settings at the account level.
- B. Configure an S3 bucket as the origin with an origin access identity (OAI) for the CloudFront distribution. Switch the DNS records for the websites to point to the CloudFront distribution. Then, for each S3 bucket, enable block public access settings.
- C. Configure an S3 bucket as the origin with an origin access identity (OAI) for the CloudFront distribution. Enable block public access settings at the account level.
- D. Configure an S3 bucket as the origin for the CloudFront distribution. Configure the S3 bucket policy to accept connections from the CloudFront points of presence only. Switch the DNS records for the websites to point to the CloudFront distribution. Enable block public access settings at the account level.

Answer: A

NEW QUESTION 10

- (Exam Topic 1)

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

What should the company do to meet these requirements?

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

Answer: D

NEW QUESTION 12

- (Exam Topic 1)

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

Which solution will meet these requirements?

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

Answer: C

NEW QUESTION 17

- (Exam Topic 1)

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

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

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

Answer: BCE

NEW QUESTION 19

- (Exam Topic 1)

A security engineer needs to ensure their company's use of IAM meets IAM security best practices. As part of this, the IAM account root user must not be used for daily work. The root user must be monitored for use, and the Security team must be alerted as quickly as possible if the root user is used.

Which solution meets these requirements?

- A. Set up an Amazon CloudWatch Events rule that triggers an Amazon SNS notification.
- B. Set up an Amazon CloudWatch Events rule that triggers an Amazon SNS notification logs from S3 and generate notifications using Amazon SNS.

- C. Set up a rule in IAM config to trigger root user event
- D. Trigger an IAM Lambda function and generate notifications using Amazon SNS.
- E. Use Amazon Inspector to monitor the usage of the root user and generate notifications using Amazon SNS

Answer: A

NEW QUESTION 23

- (Exam Topic 1)

An organization policy states that all encryption keys must be automatically rotated every 12 months. Which IAM Key Management Service (KMS) key type should be used to meet this requirement?

- A. IAM managed Customer Master Key (CMK)
- B. Customer managed CMK with IAM generated key material
- C. Customer managed CMK with imported key material
- D. IAM managed data key

Answer: B

NEW QUESTION 25

- (Exam Topic 1)

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

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

Answer: B

NEW QUESTION 26

- (Exam Topic 1)

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

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

Answer: CEF

NEW QUESTION 29

- (Exam Topic 1)

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

A

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


B

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

C

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

D

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

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

Answer: B

NEW QUESTION 31

- (Exam Topic 1)

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

Which solution meets these requirements?

- A. Create an Application Load Balancer (ALB) that uses public subnets across multiple Availability Zones within a single Region
- B. Point the ALB to an Auto Scaling group with Amazon EC2 instances in private subnets across multiple Availability Zones within the same Region

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

Answer: A

NEW QUESTION 35

- (Exam Topic 1)

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

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

- A. Launch the EC2 instances with an IAM role attache
- B. Include a user data script that uses the IAM CLIto retrieve the list of bad IP addresses from IAM Secrets Manager and uploads it as a threat list in Amazon GuardDuty Use Amazon Inspector to scan the instances for known software vulnerabilities and CIS Benchmarks compliance
- C. Launch the EC2 instances with an IAM role attached Include a user data script that uses the IAM CLI to create NACLs blocking ingress traffic from the known bad IP addresses in the EC2 instance's subnets Use IAM Systems Manager to scan the instances for known software vulnerabilities, and IAM Trusted Advisor to check instances for CIS Benchmarks compliance
- D. Launch the EC2 instances with an IAM role attached Include a user data script that uses the IAM CLI to create and attach security groups that only allow an allow listed source IP address range inbound
- E. Use Amazon Inspector to scan the instances for known software vulnerabilities, and IAM Trusted Advisor to check instances for CIS Benchmarks compliance
- F. Launch the EC2 instances with an IAM role attached Include a user data script that creates a cron job to periodically retrieve the list of bad IP addresses from Amazon S3, and configures iptables on the instances blocking the list of bad IP addresses Use Amazon inspector to scan the instances for known software vulnerabilities and CIS Benchmarks compliance.

Answer: D

NEW QUESTION 37

- (Exam Topic 1)

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

Which set of steps should the software engineering team take?

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

Answer: A

NEW QUESTION 38

- (Exam Topic 1)

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

What should the Security Engineer do to achieve this?

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

Answer: B

Explanation:

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

NEW QUESTION 43

- (Exam Topic 1)

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

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

- A. In the GuardDuty console, select the CryptoCurrency:EC2/BitcoinTool B'DNS finding and use the suppress findings option

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

Answer: A

NEW QUESTION 44

- (Exam Topic 1)

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

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

Answer: A

NEW QUESTION 46

- (Exam Topic 1)

A company wants to encrypt data locally while meeting regulatory requirements related to key exhaustion. The encryption key can be no more than 10 days old or encrypt more than 2¹⁶ objects Any encryption key must be generated on a FIPS-validated hardware security module (HSM). The company is cost-conscious, as plans to upload an average of 100 objects to Amazon S3 each second for sustained operations across 5 data producers When approach MOST efficiently meets the company's needs?

- A. Use the IAM Encryption SDK and set the maximum age to 10 days and the minimum number of messages encrypted to 2¹⁶. Use IAM Key Management Service (IAM KMS) to generate the master key and data key Use data key caching with the Encryption SDK during the encryption process.
- B. Use IAM Key Management Service (IAM KMS) to generate an IAM managed CM
- C. Then use Amazon S3 client-side encryption configured to automatically rotate with every object
- D. Use IAM CloudHSM to generate the master key and data key
- E. Then use Boto 3 and Python to locally encrypt data before uploading the object Rotate the data key every 10 days or after 2¹⁶ objects have been Uploaded to Amazon S3
- F. Use server-side encryption with Amazon S3 managed encryption keys (SSE-S3) and set the master key to automatically rotate.

Answer: A

NEW QUESTION 51

- (Exam Topic 1)

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

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

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

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

Answer: C

NEW QUESTION 54

- (Exam Topic 1)

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

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

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

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

- D. Add an egress-only internet gateway to the VP
- E. Update the custom route table with a new route to the gateway

Answer: D

NEW QUESTION 59

- (Exam Topic 1)

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

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

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

Answer: AD

Explanation:

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

NEW QUESTION 61

- (Exam Topic 1)

A company is operating an open-source software platform that is internet facing. The legacy software platform no longer receives security updates. The software platform operates using Amazon route 53 weighted load balancing to send traffic to two Amazon EC2 instances that connect to an Amazon POS cluster a recent report suggests this software platform is vulnerable to SQL injection attacks. with samples of attacks provided. The company's security engineer must secure this system against SQL injection attacks within 24 hours. The secure, engineer's solution involve the least amount of effort and maintain normal operations during implementation.

What should the security engineer do to meet these requirements?

- A. Create an Application Load Balancer with the existing EC2 instances as a target group Create an IAM WAF web ACL containing rules that protect the application from this attack
- B. then apply it to the ALB Test to ensure the vulnerability has been mitigated, then redirect the Route 53 records to point to the ALB Update security groups on the EC2 instances to prevent direct access from the internet
- C. Create an Amazon CloudFront distribution specifying one EC2 instance as an origin Create an IAM WAF web ACL containing rules that protect the application from this attack, then apply it to the distribution Test to ensure the vulnerability has been mitigated, then redirect the Route 53 records to point to CloudFront
- D. Obtain the latest source code for the platform and make the necessary updates Test the updated code to ensure that the vulnerability has been mitigated, then deploy the patched version of the platform to the EC2 instances
- E. Update the security group that is attached to the EC2 instances, removing access from the internet to the TCP port used by the SQL database Create an IAM WAF web ACL containing rules that protect the application from this attack, then apply it to the EC2 instances Test to ensure the vulnerability has been mitigated
- F. then restore the security group to the original setting

Answer: A

NEW QUESTION 62

- (Exam Topic 1)

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

Which of the following troubleshooting steps should be performed?

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

Answer: C

NEW QUESTION 66

- (Exam Topic 1)

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

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

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

roles from all other accounts as the grantee principal.

L. Create a customer-managed CMK or an IAM managed CMK in the centralized account

M. Allow other applicable accounts to use that key for cryptographic operations by applying proper cross-account permissions in the key policy

N. Modify the access policy for the EC2 Auto Scaling roles to perform cryptographic operations against the centrally managed CMK.

Answer: B

NEW QUESTION 67

- (Exam Topic 1)

A financial institution has the following security requirements:

> Cloud-based users must be contained in a separate authentication domain.

> Cloud-based users cannot access on-premises systems.

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

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

A. Configure an IAM Managed Microsoft AD to manage the cloud resources.

B. Configure an additional on-premises Active Directory service to manage the cloud resources.

C. Establish a one-way trust relationship from the existing Active Directory to the new Active Directory service.

D. Establish a one-way trust relationship from the new Active Directory to the existing Active Directory service.

E. Establish a two-way trust between the new and existing Active Directory services.

Answer: AD

Explanation:

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

NEW QUESTION 71

- (Exam Topic 1)

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

Which solution will meet this requirement?

A. Import IAM CloudTrail logs from Amazon S3 into an Amazon Elasticsearch Service cluster, and search through the combined logs for CreateRole events.

B. Create a table in Amazon Athena for IAM CloudTrail event

C. Query the table in Amazon Athena for CreateRole events.

D. Use IAM Config to look up the configuration timeline for the additional IAM roles and view the linked IAM CloudTrail event.

E. Download the credentials report from the IAM console to view the details for each IAM entity, including the creation dates.

Answer: A

NEW QUESTION 72

- (Exam Topic 2)

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

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

A. Call the abort-vault-lock operation, fix the typo, and call the initiate-vault-lock again.

B. Copy the vault data to Amazon S3, delete the vault, and create a new vault with the data.

C. Update the policy, keeping the vault lock in place.

D. Update the policy and call initiate-vault-lock again to apply the new policy.

Answer: A

Explanation:

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

NEW QUESTION 74

- (Exam Topic 2)

An application running on EC2 instances must use a username and password to access a database. The developer has stored those secrets in the SSM

Parameter Store with type SecureString using the default KMS CMK. Which combination of configuration steps will allow the application to access the secrets via the API? Select 2 answers from the options below

Please select:

A. Add the EC2 instance role as a trusted service to the SSM service role.

B. Add permission to use the KMS key to decrypt to the SSM service role.

C. Add permission to read the SSM parameter to the EC2 instance role

D. .

E. Add permission to use the KMS key to decrypt to the EC2 instance role

F. Add the SSM service role as a trusted service to the EC2 instance role.

Answer: CD

Explanation:

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

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

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

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

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

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

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

Submit your Feedback/Queries to our Experts

NEW QUESTION 75

- (Exam Topic 2)

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

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

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

Answer: B

NEW QUESTION 77

- (Exam Topic 2)

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

Please select:

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

Answer: B

Explanation:

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

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

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

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

NEW QUESTION 81

- (Exam Topic 2)

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

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

Answer: C

Explanation:

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

Center for Internet security (CIS) Benchmarks

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

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

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

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NEW QUESTION 83

- (Exam Topic 2)

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

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

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

Answer: B

Explanation:

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

NEW QUESTION 85

- (Exam Topic 2)

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

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

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

Answer: C

NEW QUESTION 87

- (Exam Topic 2)

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

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

Why did GuardDuty fail to alert to this behavior?

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

Answer: B

Explanation:

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

NEW QUESTION 90

- (Exam Topic 2)

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

How can the security team fulfill these requirements?

Please select:

- A. Use Amazon QuickSight and Cloud Trail to generate the report of out of compliance instances/servers.Redeploy all out of compliance instances/servers using

an AMI with the latest patches.

B. Use Systems Manager Patch Manager to generate the report of out of compliance instances/ server

C. Use Systems Manager Patch Manager to install the missing patches.

D. Use Systems Manager Patch Manager to generate the report of out of compliance instances/ servers. Redeploy all out of 1 compliance instances/servers using an AMI with the latest patches.

E. Use Trusted Advisor to generate the report of out of compliance instances/server

F. Use Systems Manager Patch Manager to install the missing patches.

Answer: B

Explanation:

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

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

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

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

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

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

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

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

Submit your Feedback/Queries to our Experts

NEW QUESTION 91

- (Exam Topic 2)

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

A. Use the KMS direct encrypt function on the log data every time a CloudTrail log is generated.

B. Use the default Amazon S3 server-side encryption with S3-managed keys to encrypt and decrypt the CloudTrail logs.

C. Configure CloudTrail to use server-side encryption using KMS-managed keys to encrypt and decrypt CloudTrail logs.

D. Use encrypted API endpoints so that all IAM API calls generate encrypted CloudTrail log entries using the TLS certificate from the encrypted API call.

Answer: C

Explanation:

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

NEW QUESTION 94

- (Exam Topic 2)

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

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

A. Create a custom authorization service using IAM Lambda.

B. Configure a SAML identity provider in Amazon Cognito to map attributes to the Amazon Cognito user pool attributes.

C. Configure the SAML identity provider to add the Amazon Cognito user pool as a relying party.

D. Configure an Amazon Cognito identity pool to integrate with social login providers.

E. Update DynamoDB to store the user email addresses and passwords.

F. Update API Gateway to use a COGNITO_USER_POOLS authorizer.

Answer: BDE

NEW QUESTION 99

- (Exam Topic 2)

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

A. Create a scheduled process to copy the component's logs into Amazon S3. Use S3 events to trigger a Lambda function that updates Amazon CloudWatch metrics with the log data

B. Set up CloudWatch alerts based on the metrics.

C. Install and configure the Amazon CloudWatch Logs agent on the application's EC2 instance

D. Create a CloudWatch metric filter to monitor the application log

E. Set up CloudWatch alerts based on the metrics.

F. Create a scheduled process to copy the application log files to IAM CloudTrail

G. Use S3 events to trigger Lambda functions that update CloudWatch metrics with the log data

H. Set up CloudWatch alerts based on the metrics.

I. Create a file watcher that copies data to Amazon Kinesis when the application writes to the log file. Have Kinesis trigger a Lambda function to update Amazon CloudWatch metrics with the log data

J. Set up CloudWatch alerts based on the metrics.

Answer: B

Explanation:

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

NEW QUESTION 102

- (Exam Topic 2)

A company's security policy requires that VPC Flow Logs are enabled on all VPCs. A Security Engineer is looking to automate the process of auditing the VPC resources for compliance.

What combination of actions should the Engineer take? (Choose two.)

- A. Create an IAM Lambda function that determines whether Flow Logs are enabled for a given VPC.
- B. Create an IAM Config configuration item for each VPC in the company IAM account.
- C. Create an IAM Config managed rule with a resource type of IAM:: Lambda:: Function.
- D. Create an Amazon CloudWatch Event rule that triggers on events emitted by IAM Config.
- E. Create an IAM Config custom rule, and associate it with an IAM Lambda function that contains the evaluating logic.

Answer: AE

Explanation:

<https://medium.com/mudita-misra/how-to-audit-your-aws-resources-for-security-compliance-by-using-custom-l>

NEW QUESTION 104

- (Exam Topic 2)

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

How can the Application team's requirements be met?

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

Answer: A

NEW QUESTION 108

- (Exam Topic 2)

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

Which of the following options should the Security Engineer use?

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

Answer: C

Explanation:

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

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

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

NEW QUESTION 110

- (Exam Topic 2)

A Software Engineer wrote a customized reporting service that will run on a fleet of Amazon EC2 instances. The company security policy states that application logs for the reporting service must be centrally collected.

What is the MOST efficient way to meet these requirements?

- A. Write an IAM Lambda function that logs into the EC2 instance to pull the application logs from the EC2 instance and persists them into an Amazon S3 bucket.
- B. Enable IAM CloudTrail logging for the IAM account, create a new Amazon S3 bucket, and then configure Amazon CloudWatch Logs to receive the application logs from CloudTrail.
- C. Create a simple cron job on the EC2 instances that synchronizes the application logs to an Amazon S3 bucket by using rsync.
- D. Install the Amazon CloudWatch Logs Agent on the EC2 instances, and configure it to send the application logs to CloudWatch Logs.

Answer: D

Explanation:

<https://IAM.amazon.com/blogs/IAM/cloudwatch-log-service/>

NEW QUESTION 112

- (Exam Topic 2)

A Security Administrator is performing a log analysis as a result of a suspected IAM account compromise. The Administrator wants to analyze suspicious IAM CloudTrail log files but is overwhelmed by the volume of audit logs being generated.

What approach enables the Administrator to search through the logs MOST efficiently?

- A. Implement a "write-only" CloudTrail event filter to detect any modifications to the IAM account resources.
- B. Configure Amazon Macie to classify and discover sensitive data in the Amazon S3 bucket that contains the CloudTrail audit logs.
- C. Configure Amazon Athena to read from the CloudTrail S3 bucket and query the logs to examine account activities.
- D. Enable Amazon S3 event notifications to trigger an IAM Lambda function that sends an email alarm when there are new CloudTrail API entries.

Answer: C

NEW QUESTION 114

- (Exam Topic 2)

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

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

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

Answer: C

Explanation:

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

NEW QUESTION 119

- (Exam Topic 2)

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

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

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

Answer: D

Explanation:

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

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

NEW QUESTION 120

- (Exam Topic 2)

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

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

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

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

Which buckets can user "alice" access?

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

Answer: C

Explanation:

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

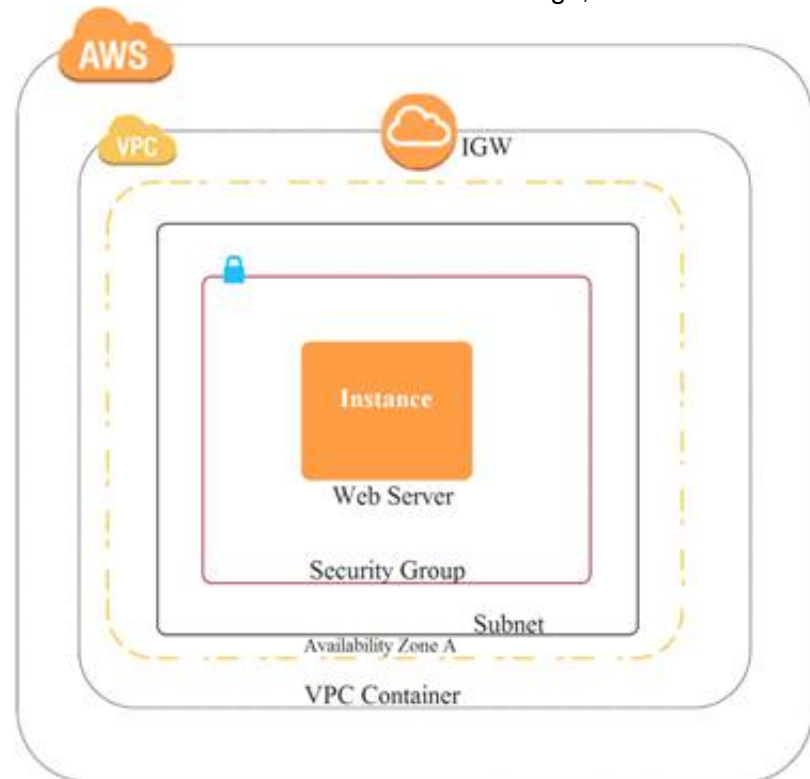
<https://IAM.amazon.com/blogs/security/iam-policies-and-bucket-policies-and-acls-oh-my-controlling-access-to>

NEW QUESTION 125

- (Exam Topic 2)

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

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



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

Answer: D

Explanation:

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

NEW QUESTION 126

- (Exam Topic 2)

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

Please select:







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

Answer: D

Explanation:

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

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

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

Option A is incorrect because this would give the list of production based resources and now all resources Option B is partially correct But this will just add more maintenance overhead.
Option C is incorrect because this can be used to log API activities but not give an account of all resou For more information on IAM Config, please visit the below URL: <https://docs.IAM.amazon.com/config/latest/developereuide/how-does-confie-work.html>
The correct answer is: Use IAM Config to get the list of all resources
Submit your Feedback/Queries to our Experts

NEW QUESTION 127

- (Exam Topic 2)

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

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

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

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

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

Answer: AB

NEW QUESTION 129

- (Exam Topic 2)

You have an Ec2 Instance in a private subnet which needs to access the KMS service. Which of the following methods can help fulfil this requirement, keeping security in perspective

Please select:

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

Answer: A

Explanation:

The IAM Documentation mentions the following

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

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

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

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

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

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

NEW QUESTION 133

- (Exam Topic 2)

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

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

Which of the following services meets these requirements?

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

Answer: B

NEW QUESTION 134

- (Exam Topic 2)

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

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

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

Answer: ACE

Explanation:

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

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

NEW QUESTION 138

- (Exam Topic 2)

A security alert has been raised for an Amazon EC2 instance in a customer account that is exhibiting strange behavior. The Security Engineer must first isolate the EC2 instance and then use tools for further investigation.

What should the Security Engineer use to isolate and research this event? (Choose three.)

- A. IAM CloudTrail
- B. Amazon Athena
- C. IAM Key Management Service (IAM KMS)
- D. VPC Flow Logs
- E. IAM Firewall Manager
- F. Security groups

Answer: ADF

Explanation:

https://github.com/IAMlabs/aws-well-architected-labs/blob/master/Security/300_Incident_Response_with_IAM

NEW QUESTION 142

- (Exam Topic 2)

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

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

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

Answer: A

NEW QUESTION 146

- (Exam Topic 2)

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

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

Answer: B

Explanation:

The IAM Documentation mentions the following

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

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

The correct answer is: Key pairs

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NEW QUESTION 150

- (Exam Topic 2)

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

How can this be accomplished?

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

Answer: A

Explanation:

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

NEW QUESTION 153

- (Exam Topic 2)

An application has a requirement to be resilient across not only Availability Zones within the application's primary region but also be available within another region altogether.

Which of the following supports this requirement for IAM resources that are encrypted by IAM KMS?

- A. Copy the application's IAM KMS CMK from the source region to the target region so that it can be used to decrypt the resource after it is copied to the target region.
- B. Configure IAM KMS to automatically synchronize the CMK between regions so that it can be used to decrypt the resource in the target region.
- C. Use IAM services that replicate data across regions, and re-wrap the data encryption key created in the source region by using the CMK in the target region so that the target region's CMK can decrypt the database encryption key.
- D. Configure the target region's IAM service to communicate with the source region's IAM KMS so that it can decrypt the resource in the target region.

Answer: C

NEW QUESTION 158

- (Exam Topic 2)

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

Please select:

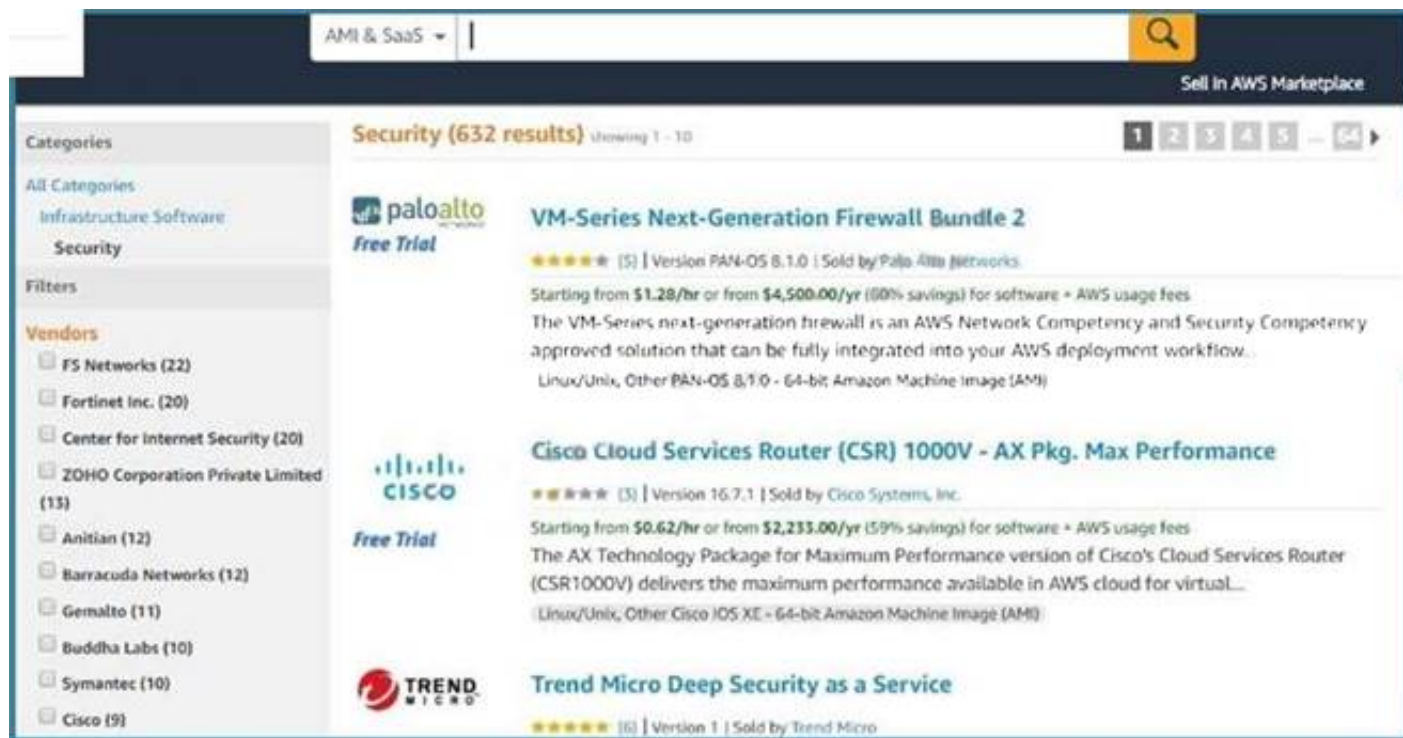
- A. Use IAM WAF to catch all intrusions occurring on the systems in the VPC
- B. Use a custom solution available in the IAM Marketplace
- C. Use VPC Flow logs to detect the issues and flag them accordingly.
- D. Use IAM Cloudwatch to monitor all traffic

Answer: B

Explanation:

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

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



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

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

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

NEW QUESTION 159

- (Exam Topic 2)

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

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

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

Answer: A

NEW QUESTION 161

- (Exam Topic 2)

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

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

Answer: D

Explanation:

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

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

NEW QUESTION 162

- (Exam Topic 2)

A company uses identity federation to authenticate users into an identity account (987654321987) where the users assume an IAM role named IdentityRole. The users then assume an IAM role named JobFunctionRole in the target IAM account (123456789123) to perform their job functions.

A user is unable to assume the IAM role in the target account. The policy attached to the role in the identity account is:


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

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

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

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

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

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

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

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

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

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

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

Answer: A

NEW QUESTION 164

- (Exam Topic 2)

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

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

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

Answer: D

Explanation:

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

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

NEW QUESTION 166

- (Exam Topic 2)

You have just recently set up a web and database tier in a VPC and hosted the application. When testing the app, you are not able to reach the home page for the app. You have verified the security groups. What can help you diagnose the issue.

Please select:

- A. Use the IAM Trusted Advisor to see what can be done.
- B. Use VPC Flow logs to diagnose the traffic
- C. Use IAM WAF to analyze the traffic
- D. Use IAM Guard Duty to analyze the traffic

Answer: B

Explanation:

Option A is invalid because this can be used to check for security issues in your account, but not verify as to why you cannot reach the home page for your application

Option C is invalid because this is used to protect your app against application layer attacks, but not verify as to why you cannot reach the home page for your application

Option D is invalid because this is used to protect your instance against attacks, but not verify as to why you cannot reach the home page for your application

The IAM Documentation mentions the following

VPC Flow Logs capture network flow information for a VPC, subnet or network interface and stores it in Amazon CloudWatch Logs. Flow log data can help customers troubleshoot network issues; for example, to diagnose why specific traffic is not reaching an instance, which might be a result of overly restrictive security group rules. Customers can also use flow logs as a security tool to monitor the traffic that reaches their instances, to profile network traffic, and to look for abnormal traffic behaviors.

For more information on IAM Security, please visit the following URL: <https://IAM.amazon.com/answers/networking/vpc-security-capabilities>

The correct answer is: Use VPC Flow logs to diagnose the traffic Submit your Feedback/Queries to our Experts

NEW QUESTION 171

- (Exam Topic 2)

IAM CloudTrail is being used to monitor API calls in an organization. An audit revealed that CloudTrail is failing to deliver events to Amazon S3 as expected.

What initial actions should be taken to allow delivery of CloudTrail events to S3? (Select two.)

- A. Verify that the S3 bucket policy allows CloudTrail to write objects.
- B. Verify that the IAM role used by CloudTrail has access to write to Amazon CloudWatch Logs.
- C. Remove any lifecycle policies on the S3 bucket that are archiving objects to Amazon Glacier.
- D. Verify that the S3 bucket defined in CloudTrail exists.
- E. Verify that the log file prefix defined in CloudTrail exists in the S3 bucket.

Answer: BD

Explanation:

<https://docs.IAM.amazon.com/IAMcloudtrail/latest/userguide/create-s3-bucket-policy-for-cloudtrail.html>

NEW QUESTION 173

- (Exam Topic 2)

Compliance requirements state that all communications between company on-premises hosts and EC2 instances be encrypted in transit. Hosts use custom proprietary protocols for their communication, and EC2 instances need to be fronted by a load balancer for increased availability.

Which of the following solutions will meet these requirements?

- A. Offload SSL termination onto an SSL listener on a Classic Load Balancer, and use a TCP connection between the load balancer and the EC2 instances.
- B. Route all traffic through a TCP listener on a Classic Load Balancer, and terminate the TLS connection on the EC2 instances.
- C. Create an HTTPS listener using an Application Load Balancer, and route all of the communication through that load balancer.
- D. Offload SSL termination onto an SSL listener using an Application Load Balancer, and re-spawn and SSL connection between the load balancer and the EC2 instances.

Answer: B

Explanation:

<https://IAM.amazon.com/blogs/compute/maintaining-transport-layer-security-all-the-way-to-your-container-usin>

NEW QUESTION 178

- (Exam Topic 2)

An organization receives an alert that indicates that an EC2 instance behind an ELB Classic Load Balancer has been compromised. What techniques will limit lateral movement and allow evidence gathering?

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

Answer: B

Explanation:

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

NEW QUESTION 181

- (Exam Topic 2)

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

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

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

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

Answer: A

NEW QUESTION 186

- (Exam Topic 2)

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

What is the SIMPLEST way to meet these requirements?

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

Answer: C

Explanation:

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

NEW QUESTION 191

- (Exam Topic 2)

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

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

Answer: A

Explanation:

A year's time is generally too long a gap for conducting security audits The IAM Documentation mentions the following

You should audit your security configuration in the following situations: On a periodic basis.

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

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

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

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

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

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

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

NEW QUESTION 192

- (Exam Topic 2)

A Security Analyst attempted to troubleshoot the monitoring of suspicious security group changes. The Analyst was told that there is an Amazon CloudWatch alarm in place for these IAM CloudTrail log events.

The Analyst tested the monitoring setup by making a configuration change to the security group but did not receive any alerts.

Which of the following troubleshooting steps should the Analyst perform?

- A. Ensure that CloudTrail and S3 bucket access logging is enabled for the Analyst's IAM account.
- B. Verify that a metric filter was created and then mapped to an alar
- C. Check the alarm notification action.
- D. Check the CloudWatch dashboards to ensure that there is a metric configured with an appropriate dimension for security group changes.
- E. Verify that the Analyst's account is mapped to an IAM policy that includes permissions for cloudwatch: GetMetricStatistics and Cloudwatch: ListMetrics.

Answer: B

Explanation:

MetricFilter:

Type: 'IAM::Logs::MetricFilter' Properties:

LogGroupName: " FilterPattern: >{ (\$.eventName = AuthorizeSecurityGroupIngress) || (\$.eventName = AuthorizeSecurityGroupEgress) || (\$.eventName = RevokeSecurityGroupIngress) || (\$.eventName = RevokeSecurityGroupEgress) || (\$.eventName = CreateSecurityGroup) || (\$.eventName = DeleteSecurityGroup) }

MetricTransformations:

- MetricValue: '1'

MetricNamespace: CloudTrailMetrics MetricName: SecurityGroupEventCount

NEW QUESTION 197

- (Exam Topic 2)

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

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

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

Answer: A

Explanation:

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

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

NEW QUESTION 198

- (Exam Topic 2)

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

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

- A. Create a new IAM user that has administrator permissions in the IAM accoun
- B. Delete the password for the IAM account root user.
- C. Create a new IAM user that has administrator permissions in the IAM accoun
- D. Modify the permissions for the existing IAM users.
- E. Replace the access key for the IAM account root use
- F. Delete the password for the IAM account root user.
- G. Create a new IAM user that has administrator permissions in the IAM accoun

H. Enable multi-factor authentication for the IAM account root user.

Answer: D

Explanation:

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

NEW QUESTION 200

- (Exam Topic 2)

A company has complex connectivity rules governing ingress, egress, and communications between Amazon EC2 instances. The rules are so complex that they cannot be implemented within the limits of the maximum number of security groups and network access control lists (network ACLs).

What mechanism will allow the company to implement all required network rules without incurring additional cost?

- A. Configure IAM WAF rules to implement the required rules.
- B. Use the operating system built-in, host-based firewall to implement the required rules.
- C. Use a NAT gateway to control ingress and egress according to the requirements.
- D. Launch an EC2-based firewall product from the IAM Marketplace, and implement the required rules in that product.

Answer: B

NEW QUESTION 204

- (Exam Topic 2)

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

What configuration is necessary to allow the virtual security appliance to route the traffic?

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

Answer: C

Explanation:

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

NEW QUESTION 206

- (Exam Topic 2)

A Security Engineer must design a system that can detect whether a file on an Amazon EC2 host has been modified. The system must then alert the Security Engineer of the modification.

What is the MOST efficient way to meet these requirements?

- A. Install antivirus software and ensure that signatures are up-to-date
- B. Configure Amazon CloudWatch alarms to send alerts for security events.
- C. Install host-based IDS software to check for file integrity
- D. Export the logs to Amazon CloudWatch Logs for monitoring and alerting.
- E. Export system log files to Amazon S3. Parse the log files using an IAM Lambda function that will send alerts of any unauthorized system login attempts through Amazon SNS.
- F. Use Amazon CloudWatch Logs to detect file system change
- G. If a change is detected, automatically terminate and recreate the instance from the most recent AMI
- H. Use Amazon SNS to send notification of the event.

Answer: B

NEW QUESTION 207

- (Exam Topic 3)

An auditor needs access to logs that record all API events on IAM. The auditor only needs read-only access to the log files and does not need access to each IAM account. The company has multiple IAM accounts, and the auditor needs access to all the logs for all the accounts. What is the best way to configure access for the auditor to view event logs from all accounts? Choose the correct answer from the options below

Please select:

- A. Configure the CloudTrail service in each IAM account, and have the logs delivered to an IAM bucket on each account, while granting the auditor permissions to the bucket via roles in the secondary accounts and a single primary IAM account that can assume a read-only role in the secondary IAM accounts.
- B. Configure the CloudTrail service in the primary IAM account and configure consolidated billing for all the secondary accounts
- C. Then grant the auditor access to the S3 bucket that receives the CloudTrail log files.
- D. Configure the CloudTrail service in each IAM account and enable consolidated logging inside of CloudTrail.
- E. Configure the CloudTrail service in each IAM account and have the logs delivered to a single IAM bucket in the primary account and grant the auditor access to that single bucket in the primary account.

Answer: D

Explanation:

Given the current requirements, assume the method of "least privilege" security design and only allow the auditor access to the minimum amount of IAM resources as possible

IAM CloudTrail is a service that enables governance, compliance, operational auditing, and risk auditing of your IAM account. With CloudTrail, you can log,

continuously monitor, and retain events related to API calls across your IAM infrastructure. CloudTrail provides a history of IAM API calls for your account including API calls made through the IAM Management Console, IAM SDKs, command line tools, and other IAM services. This history simplifies security analysis, resource change tracking, and troubleshooting

only be granted access in one location

Option Option A is incorrect since the auditor should B is incorrect since consolidated billing is not a key requirement as part of the question

Option C is incorrect since there is not consolidated logging

For more information on Cloudtrail please refer to the below URL: <https://IAM.amazon.com/cloudtrail>

(

The correct answer is: Configure the CloudTrail service in each IAM account and have the logs delivered to a single IAM bud in the primary account and grant the auditor access to that single bucket in the primary account.

Submit your Feedback/Queries to our Experts

NEW QUESTION 208

- (Exam Topic 3)

There is a set of Ec2 Instances in a private subnet. The application hosted on these EC2 Instances need to access a DynamoDB table. It needs to be ensured that traffic does not flow out to the internet. How can this be achieved?

Please select:

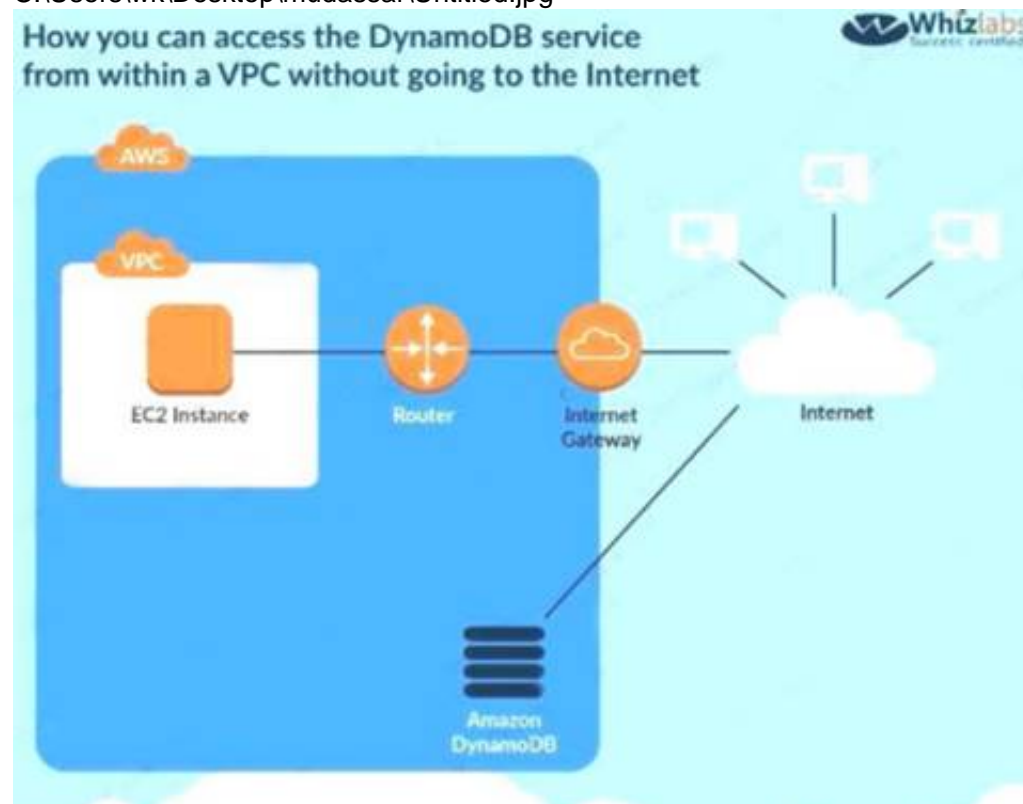
- A. Use a VPC endpoint to the DynamoDB table
- B. Use a VPN connection from the VPC
- C. Use a VPC gateway from the VPC
- D. Use a VPC Peering connection to the DynamoDB table

Answer: A

Explanation:

The following diagram from the IAM Documentation shows how you can access the DynamoDB service from within a V without going to the Internet This can be done with the help of a VPC endpoint

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



Option B is invalid because this is used for connection between an on-premise solution and IAM Option C is invalid because there is no such option

Option D is invalid because this is used to connect 2 VPCs

For more information on VPC endpointsfor DynamoDB, please visit the URL:

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

NEW QUESTION 209

- (Exam Topic 3)

You need to have a requirement to store objects in an S3 bucket with a key that is automatically managed and rotated. Which of the following can be used for this purpose?

Please select:

- A. IAM KMS
- B. IAM S3 Server side encryption
- C. IAM Customer Keys
- D. IAM Cloud HSM

Answer: B

Explanation:

The IAM Documentation mentions the following

Server-side encryption protects data at rest. Server-side encryption with Amazon S3-managed encryption keys (SSE-S3) uses strong multi-factor encryption. Amazon S3 encrypts each object with a unique key. As an additional safeguard, it encrypts the key itself with a master key that it rotates regularly. Amazon S3 server-side encryption uses one of the strongest block ciphers available, 256-bit Advanced Encryption Standard (AES-256), to encrypt your data.

All other options are invalid since here you need to ensure the keys are manually rotated since you manage the entire key set Using IAM S3 Server side encryption, IAM will manage the rotation of keys automatically.

For more information on Server side encryption, please visit the following URL:

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

The correct answer is: IAM S3 Server side encryption Submit your Feedback/Queries to our Experts

NEW QUESTION 212

- (Exam Topic 3)

What is the result of the following bucket policy?

```
{
  "Statement": [
    {
      "Sid": "Sid1",
      "Action": "s3:*",
      "Effect": "Allow",
      "Resource": "arn:aws:s3:::mybucket/*.",
      "Principal": {
        "AWS": ["arn:aws:iam::111111111:user/mark"]
      }
    },
    {
      "Sid": "Sid2",
      "Action": "s3:*",
      "Effect": "Deny",
      "Resource": "arn:aws:s3:::mybucket/*",
      "Principal": {
        "AWS": [
          "*"
        ]
      }
    }
  ]
}
```

Choose the correct Answer Please select:

- A. It will allow all access to the bucket mybucket
- B. It will allow the user mark from IAM account number 111111111 all access to the bucket but deny everyone else all access to the bucket
- C. It will deny all access to the bucket mybucket
- D. None of these

Answer: C

Explanation:

The policy consists of 2 statements, one is the allow for the user mark to the bucket and the next is the deny policy for all other users. The deny permission will override the allow and hence all users will not have access to the bucket.

Options A,B and D are all invalid because this policy is used to deny all access to the bucket mybucket For examples on S3 bucket policies, please refer to the below Link: <http://docs.IAM.amazon.com/AmazonS3/latest/dev/example-bucket-policies.html>

The correct answer is: It will deny all access to the bucket mybucket Submit your Feedback/Quenes to our Experts

NEW QUESTION 214

- (Exam Topic 3)

You have a set of Keys defined using the IAM KMS service. You want to stop using a couple of keys , but are not sure of which services are currently using the keys. Which of the following would be a safe option to stop using the keys from further usage.

Please select:

- A. Delete the keys since anyway there is a 7 day waiting period before deletion
- B. Disable the keys
- C. Set an alias for the key
- D. Change the key material for the key

Answer: B

Explanation:

Option A is invalid because once you schedule the deletion and waiting period ends, you cannot come back from the deletion process.

Option C and D are invalid because these will not check to see if the keys are being used or not The IAM Documentation mentions the following

Deleting a customer master key (CMK) in IAM Key Management Service (IAM KMS) is destructive and potentially dangerous. It deletes the key material and all metadata associated with the CMK, and is irreversible. After a CMK is deleted you can no longer decrypt the data that was encrypted under that CMK, which means that data becomes unrecoverable. You should delete a CMK only when you are sure that you don't need to use it anymore. If you are not sure, consider disabling the CMK instead of deleting it. You can re-enable a disabled CMK if you need to use it again later, but you cannot recover a deleted CMK.

For more information on deleting keys from KMS, please visit the below URL: <https://docs.IAM.amazon.com/kms/latest/developereuide/deleting-keys.html>

The correct answer is: Disable the keys Submit your Feedback/Queries to our Experts

NEW QUESTION 215

- (Exam Topic 3)

Your company is planning on developing an application in IAM. This is a web based application. The application user will use their facebook or google identities for

authentication. You want to have the ability to manage user profiles without having to add extra coding to manage this. Which of the below would assist in this. Please select:

- A. Create an OIDC identity provider in IAM
- B. Create a SAML provider in IAM
- C. Use IAM Cognito to manage the user profiles
- D. Use IAM users to manage the user profiles

Answer: C

Explanation:

The IAM Documentation mentions the following

A user pool is a user directory in Amazon Cognito. With a user pool, your users can sign in to your web or mobile app through Amazon Cognito. Your users can also sign in through social identity providers like Facebook or Amazon, and through SAML identity providers. Whether your users sign in directly or through a third party, all members of the user pool have a directory profile that you can access through an SDK.

User pools provide:

Sign-up and sign-in services.

A built-in, customizable web UI to sign in users.

Social sign-in with Facebook, Google, and Login with Amazon, as well as sign-in with SAML identity providers from your user pool.

User directory management and user profiles.

Security features such as multi-factor authentication (MFA), checks for compromised credentials, account takeover protection, and phone and email verification.

Customized workflows and user migration through IAM Lambda triggers. Options A and B are invalid because these are not used to manage users Option D is invalid because this would be a maintenance overhead

For more information on Cognito User Identity pools, please refer to the below Link: <https://docs.IAM.amazon.com/coenito/latest/developerguide/cognito-user-identity-pools.html>

The correct answer is: Use IAM Cognito to manage the user profiles Submit your Feedback/Queries to our Experts

NEW QUESTION 217

- (Exam Topic 3)

You are planning on using the IAM KMS service for managing keys for your application. For which of the following can the KMS CMK keys be used for encrypting?

Choose 2 answers from the options given below

Please select:

- A. Image Objects
- B. Large files
- C. Password
- D. RSA Keys

Answer: CD

Explanation:

The CMK keys themselves can only be used for encrypting data that is maximum 4KB in size. Hence it can be used for encryptii information such as passwords and RSA keys.

Option A and B are invalid because the actual CMK key can only be used to encrypt small amounts of data and not large amouii of data. You have to generate the data key from the CMK key in order to encrypt high amounts of data

For more information on the concepts for KMS, please visit the following URL: <https://docs.IAM.amazon.com/kms/latest/developereuide/concepts.html>

The correct answers are: Password, RSA Keys Submit your Feedback/Queries to our Experts

NEW QUESTION 220

- (Exam Topic 3)

You have a set of application , database and web servers hosted in IAM. The web servers are placed behind an ELB. There are separate security groups for the application, database and web servers. The network security groups have been defined accordingly. There is an issue with the communication between the application and database servers. In order to troubleshoot the issue between just the application and database server, what is the ideal set of MINIMAL steps you would take?

Please select:

- A. Check the Inbound security rules for the database security group Check the Outbound security rules forthe application security group
- B. Check the Outbound security rules for the database security group I Check the inbound security rules for the application security group
- C. Check the both the Inbound and Outbound security rules for the database security group Check the inbound security rules for the application security group
- D. Check the Outbound security rules for the database security groupCheck the both the Inbound and Outbound security rules for the application security group

Answer: A

Explanation:

Here since the communication would be established inward to the database server and outward from the application server, you need to ensure that just the Outbound rules for application server security groups are checked. And then just the Inbound rules for database server security groups are checked.

Option B can't be the correct answer. It says that we need to check the outbound security group which is not needed.

We need to check the inbound for DB SG and outbound of Application SG. Because, this two group need to communicate with each other to function properly.

Option C is invalid because you don't need to check for Outbound security rules for the database security group

Option D is invalid because you don't need to check for Inbound security rules for the application security group

For more information on Security Groups, please refer to below URL:

The correct answer is: Check the Inbound security rules for the database security group Check the Outbound security rules for the application security group

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NEW QUESTION 221

- (Exam Topic 3)

You want to ensure that you keep a check on the Active EBS Volumes, Active snapshots and Elastic IP addresses you use so that you don't go beyond the service limit. Which of the below services can help in this regard?

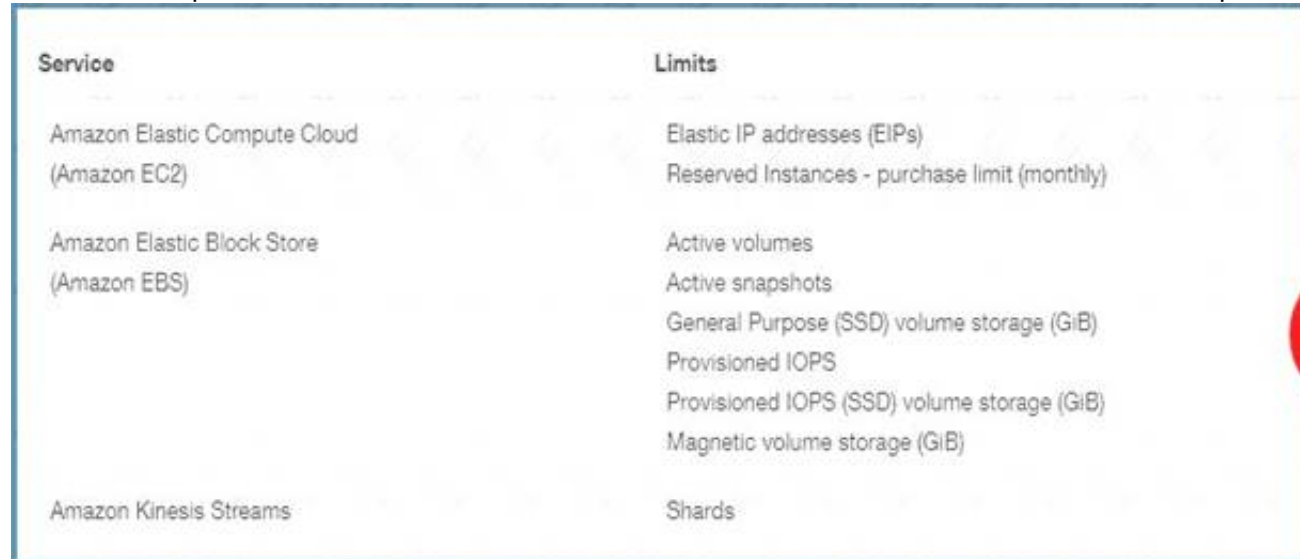
Please select:

- A. IAM Cloudwatch
- B. IAM EC2
- C. IAM Trusted Advisor
- D. IAM SNS

Answer: C

Explanation:

Below is a snapshot of the service limits that the Trusted Advisor can monitor C:\Users\wk\Desktop\mudassar\Untitled.jpg



Service	Limits
Amazon Elastic Compute Cloud (Amazon EC2)	Elastic IP addresses (EIPs) Reserved Instances - purchase limit (monthly)
Amazon Elastic Block Store (Amazon EBS)	Active volumes Active snapshots General Purpose (SSD) volume storage (GiB) Provisioned IOPS Provisioned IOPS (SSD) volume storage (GiB) Magnetic volume storage (GiB)
Amazon Kinesis Streams	Shards

Option A is invalid because even though you can monitor resources, it cannot be checked against the service limit.

Option B is invalid because this is the Elastic Compute cloud service Option D is invalid because it can be send notification but not check on service limit For more information on the Trusted Advisor monitoring, please visit the below URL:

<https://IAM.amazon.com/premiumsupport/ta-faqs>> The correct answer is: IAM Trusted Advisor Submit your Feedback/Queries to our Experts

NEW QUESTION 225

- (Exam Topic 3)

An application running on EC2 instances in a VPC must call an external web service via TLS (port 443). The instances run in public subnets.

Which configurations below allow the application to function and minimize the exposure of the instances? Select 2 answers from the options given below

Please select:

- A. A network ACL with a rule that allows outgoing traffic on port 443.
- B. A network ACL with rules that allow outgoing traffic on port 443 and incoming traffic on ephemeral ports
- C. A network ACL with rules that allow outgoing traffic on port 443 and incoming traffic on port 443.
- D. A security group with a rule that allows outgoing traffic on port 443
- E. A security group with rules that allow outgoing traffic on port 443 and incoming traffic on ephemeral ports.
- F. A security group with rules that allow outgoing traffic on port 443 and incoming traffic on port 443.

Answer: BD

Explanation:

Since here the traffic needs to flow outbound from the Instance to a web service on Port 443, the outbound rules on both the Network and Security Groups need to allow outbound traffic. The Incoming traffic should be allowed on ephermal ports for the Operating System on the Instance to allow a connection to be established on any desired or available port.

Option A is invalid because this rule alone is not enough. You also need to ensure incoming traffic on ephemeral ports

Option C is invalid because need to ensure incoming traffic on ephemeral ports and not only port 443 Option E and F are invalid since here you are allowing additional ports on Security groups which are not required

For more information on VPC Security Groups, please visit the below URL:

https://docs.IAM.amazon.com/AmazonVPC/latest/UserGuideA/PC_SecurityGroups.html

The correct answers are: A network ACL with rules that allow outgoing traffic on port 443 and incoming traffic on ephemeral ports, A security group with a rule that allows outgoing traffic on port 443

Submit your Feedback/Queries to our Experts

NEW QUESTION 228

- (Exam Topic 3)

Your company has many IAM accounts defined and all are managed via IAM Organizations. One IAM account has a S3 bucket that has critical data. How can we ensure that all the users in the IAM organisation have access to this bucket?

Please select:

- A. Ensure the bucket policy has a condition which involves IAM:PrincipalOrgID
- B. Ensure the bucket policy has a condition which involves IAM:AccountNumber
- C. Ensure the bucket policy has a condition which involves IAM:PrincipalID
- D. Ensure the bucket policy has a condition which involves IAM:OrgID

Answer: A

Explanation:

The IAM Documentation mentions the following

IAM Identity and Access Management (IAM) now makes it easier for you to control access to your IAM resources by using the IAM organization of IAM principals (users and roles). For some services, you grant permissions using resource-based policies to specify the accounts and principals that can access the resource and what actions they can perform on it. Now, you can use a new condition key, IAM:PrincipalOrgID, in these policies to require all principals accessing the resource to be from an account in the organization

Option B.C and D are invalid because the condition in the bucket policy has to mention IAM:PrincipalOrgID For more information on controlling access via Organizations, please refer to the below Link:

<https://IAM.amazon.com/blogs/security/control-access-to-IAM-resources-by-usins-the-IAM-organization-of-iam> (

The correct answer is: Ensure the bucket policy has a condition which involves IAM:PrincipalOrgID Submit your Feedback/Queries to our Experts

NEW QUESTION 231

- (Exam Topic 3)

A company has hired a third-party security auditor, and the auditor needs read-only access to all IAM resources and logs of all VPC records and events that have occurred on IAM. How can the company meet the auditor's requirements without comprising security in the IAM environment? Choose the correct answer from the options below

Please select:

- A. Create a role that has the required permissions for the auditor.
- B. Create an SNS notification that sends the CloudTrail log files to the auditor's email when CloudTrail delivers the logs to S3, but do not allow the auditor access to the IAM environment.
- C. The company should contact IAM as part of the shared responsibility model, and IAM will grant required access to th^ third-party auditor.
- D. Enable CloudTrail logging and create an IAM user who has read-only permissions to the required IAM resources, including the bucket containing the CloudTrail logs.

Answer: D

Explanation:

IAM CloudTrail is a service that enables governance, compliance, operational auditing, and risk auditing of your IAM account. With CloudTrail, you can log, continuously monitor, and retain events related to API calls across your IAM infrastructure. CloudTrail provides a history of IAM API calls for your account including API calls made through the IAM Management Console, IAM SDKs, command line tools, and other IAM services. This history simplifies security analysis, resource change tracking, and troubleshooting.

Option A and C are incorrect since Cloudtrail needs to be used as part of the solution Option B is incorrect since the auditor needs to have access to Cloudtrail

For more information on cloudtrail, please visit the below URL: <https://IAM.amazon.com/cloudtrail>

The correct answer is: Enable CloudTrail logging and create an IAM user who has read-only permissions to the required IAM resources, including the bucket containing the CloudTrail logs.

Submit your Feedback/Queries to our Experts

NEW QUESTION 233

- (Exam Topic 3)

Your application currently use IAM Cognito for authenticating users. Your application consists of different types of users. Some users are only allowed read access to the application and others are given contributor access. How wou you manage the access effectively?

Please select:

- A. Create different cognito endpoints, one for the readers and the other for the contributors.
- B. Create different cognito groups, one for the readers and the other for the contributors.
- C. You need to manage this within the application itself
- D. This needs to be managed via Web security tokens

Answer: B

Explanation:

The IAM Documentation mentions the following

You can use groups to create a collection of users in a user pool, which is often done to set the permissions for those users. For example, you can create separate groups for users who are readers, contributors, and editors of your website and app.

Option A is incorrect since you need to create cognito groups and not endpoints

Options C and D are incorrect since these would be overheads when you can use IAM Cognito For more information on IAM Cognito user groups please refer to the below Link:

<https://docs.IAM.amazon.com/coenito/latest/developersuide/cognito-user-pools-user-groups.html>

The correct answer is: Create different cognito groups, one for the readers and the other for the contributors. Submit your Feedback/Queries to our Experts

NEW QUESTION 236

- (Exam Topic 3)

You have a set of Customer keys created using the IAM KMS service. These keys have been used for around 6 months. You are now trying to use the new KMS features for the existing set of key's but are not able to do so. What could be the reason for this.

Please select:

- A. You have not explicitly given access via the key policy
- B. You have not explicitly given access via the IAM policy
- C. You have not given access via the IAM roles
- D. You have not explicitly given access via IAM users

Answer: A

Explanation:

By default, keys created in KMS are created with the default key policy. When features are added to KMS, you need to explii update the default key policy for these keys.

Option B,C and D are invalid because the key policy is the main entity used to provide access to the keys For more information on upgrading key policies please visit the following URL: <https://docs.IAM.ama20n.com/kms/latest/developerguide/key-policy-upgrading.html>

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The correct answer is: You have not explicitly given access via the key policy Submit your Feedback/Queries to our Experts

NEW QUESTION 238

- (Exam Topic 3)

You have just developed a new mobile application that handles analytics workloads on large scale datasets that are stored on Amazon Redshift. Consequently, the application needs to access Amazon Redshift tables. Which of the below methods would be the best both practically and security-wise, to access the tables?

Choose the correct answer from the options below

Please select:

- A. Create an IAM user and generate encryption keys for that use
- B. Create a policy for Redshift read-only acces
- C. Embed th keys in the application.
- D. Create an HSM client certificate in Redshift and authenticate using this certificate.
- E. Create a Redshift read-only access policy in IAM and embed those credentials in the application.
- F. Use roles that allow a web identity federated user to assume a role that allows access to the Redshift table by providing temporary credentials.

Answer: D

Explanation:

The IAM Documentation mentions the following

"When you write such an app, you'll make requests to IAM services that must be signed with an IAM access key. However, we strongly recommend that you do not embed or distribute long-term IAM credentials with apps that a user downloads t device, even in an encrypted store. Instead, build your app so that it requests temporary IAM security credentials dynamica when needed using web identify federation. The supplied temporary credentials map to an IAM role that has only the permissioi needed to perform the tasks required by the mobile app".

Option A.B and C are all automatically incorrect because you need to use IAM Roles for Secure access to services For more information on web identity federation please refer to the below Link:

> http://docs.IAM.amazon.com/IAM/latest/UserGuide/id_roles_providers_oidc.html

The correct answer is: Use roles that allow a web identity federated user to assume a role that allows access to the RedShift table by providing temporary credentials.

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NEW QUESTION 241

- (Exam Topic 3)

Your company has confidential documents stored in the simple storage service. Due to compliance requirements, you have to ensure that the data in the S3 bucket is available in a different geographical location.

As an architect what is the change you would make to comply with this requirement. Please select:

- A. Apply Multi-AZ for the underlying 53 bucket
- B. Copy the data to an EBS Volume in another Region
- C. Create a snapshot of the S3 bucket and copy it to another region
- D. Enable Cross region replication for the S3 bucket

Answer: D

Explanation:

This is mentioned clearly as a use case for S3 cross-region replication

You might configure cross-region replication on a bucket for various reasons, including the following:

- Compliance requirements - Although, by default Amazon S3 stores your data across multiple geographically distant Availability Zones, compliance requirements might dictate that you store data at even further distances. Cross-region replication allows you to replicate data between distant IAM Regions to satisfy these compliance requirements.

Option A is invalid because Multi-AZ cannot be used to S3 buckets

Option B is invalid because copying it to an EBS volume is not a recommended practice Option C is invalid because creating snapshots is not possible in S3

For more information on S3 cross-region replication, please visit the following URL: <https://docs.IAM.amazon.com/AmazonS3/latest/dev/crr.html>

The correct answer is: Enable Cross region replication for the S3 bucket Submit your Feedback/Queries to our Experts

NEW QUESTION 242

- (Exam Topic 3)

A company has a requirement to create a DynamoDB table. The company's software architect has provided the following CLI command for the DynamoDB table

```
--table-name Customers \
--attribute-definitions \
    AttributeName=ID,AttributeType=S \
    AttributeName=Name,AttributeType=S \
--key-schema \
    AttributeName=ID,KeyType=HASH \
    AttributeName=Name,KeyType=RANGE \
--provisioned-throughput \
    ReadCapacityUnits=10,WriteCapacityUnits=5 \
--sse-specification Enabled=true
```

Which of the following has been taken of from a security perspective from the above command? Please select:

- A. Since the ID is hashed, it ensures security of the underlying table.
- B. The above command ensures data encryption at rest for the Customer table
- C. The above command ensures data encryption in transit for the Customer table
- D. The right throughput has been specified from a security perspective

Answer: B

Explanation:

The above command with the "-sse-specification Enabled=true" parameter ensures that the data for the DynamoDB table is encrypted at rest.

Options A,C and D are all invalid because this command is specifically used to ensure data encryption at rest For more information on DynamoDB encryption, please visit the URL: <https://docs.IAM.amazon.com/amazondynamodb/latest/developerguide/encryption.tutorial.html>

The correct answer is: The above command ensures data encryption at rest for the Customer table

NEW QUESTION 244
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