

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)

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

How should this be accomplished?

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

Answer: A

NEW QUESTION 3

- (Exam Topic 1)

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

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

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

Answer: CD

NEW QUESTION 4

- (Exam Topic 1)

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

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

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

Answer: AE

NEW QUESTION 5

- (Exam Topic 1)

A company has a serverless application for internal users deployed on IAM. The application uses IAM Lambda for the front end and for business logic. The Lambda function accesses an Amazon RDS database inside a VPC The company uses IAM Systems Manager Parameter Store for storing database credentials.

A recent security review highlighted the following issues

- The Lambda function has internet access.

- > The relational database is publicly accessible.
- > The database credentials are not stored in an encrypted state.

Which combination of steps should the company take to resolve these security issues? (Select THREE)

- A. Disable public access to the RDS database inside the VPC
- B. Move all the Lambda functions inside the VPC.
- C. Edit the IAM role used by Lambda to restrict internet access.
- D. Create a VPC endpoint for Systems Manage
- E. Store the credentials as a string paramete
- F. Change the parameter type to an advanced parameter.
- G. Edit the IAM role used by RDS to restrict internet access.
- H. Create a VPC endpoint for Systems Manage
- I. Store the credentials as a SecureString parameter.

Answer: ABE

NEW QUESTION 6

- (Exam Topic 1)

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

- IAM IAM federated with on-premises Active Directory
- Amazon Cognito user pools to accessing an IAM Cloud application developed by the company Which combination o1 actions should the Security Engineer take to solve this issue? (Select TWO.)

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

Answer: AD

NEW QUESTION 7

- (Exam Topic 1)

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

How can this task be accomplished?

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

Answer: A

NEW QUESTION 8

- (Exam Topic 1)

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

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

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

Answer: C

NEW QUESTION 9

- (Exam Topic 1)

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

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

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

Answer: DE

NEW QUESTION 10

- (Exam Topic 1)

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

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

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

Answer: AB

NEW QUESTION 10

- (Exam Topic 1)

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

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

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

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

Answer: A

NEW QUESTION 12

- (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 multivalued answer routing to send traffic to the containers

Answer: A

NEW QUESTION 16

- (Exam Topic 1)

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

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

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

Answer: BDF

NEW QUESTION 18

- (Exam Topic 1)

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

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

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

Answer: BE

NEW QUESTION 19

- (Exam Topic 1)

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

How should a Security Engineer accomplish this?

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

Answer: C

NEW QUESTION 23

- (Exam Topic 1)

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

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

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

Answer: AE

NEW QUESTION 24

- (Exam Topic 1)

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

How should a security engineer resolve these issues?

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

Answer: D

Explanation:

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

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

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

NEW QUESTION 28

- (Exam Topic 1)

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

Which actions will meet the program requirements that address security?

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

Answer: B

NEW QUESTION 29

- (Exam Topic 1)

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

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

- A. Give consent to the IAM Security team to dump the memory core on the compromised instance and provide it to IAM Support for analysis.
- B. Review memory dump data that the IAM Systems Manager Agent sent to Amazon CloudWatch Logs.

- C. Download and run the EC2Rescue for Windows Server utility from IAM.
- D. Reboot the EC2 Windows Server, enter safe mode, and select memory dump.

Answer: C

Explanation:

<https://docs.IAM.amazon.com/IAMEC2/latest/WindowsGuide/ec2rw-cli.html>

NEW QUESTION 34

- (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 39

- (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 41

- (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 45

- (Exam Topic 1)

A company uses Microsoft Active Directory for access management for on-premises resources and wants to use the same mechanism for accessing its IAM accounts. Additionally, the development team plans to launch a public-facing application for which they need a separate authentication solution.

Which combination of the following would satisfy these requirements? (Select TWO)

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

Answer: CD

NEW QUESTION 46

- (Exam Topic 1)

A company uses multiple IAM accounts managed with IAM Organizations. Security engineers have created a standard set of security groups for all these accounts. The security policy requires that these security groups be used for all applications and delegates modification authority to the security team only.

A recent security audit found that the security groups are inconsistently implemented across accounts and that unauthorized changes have been made to the security groups. A security engineer needs to recommend a solution to improve consistency and to prevent unauthorized changes in the individual accounts in the future.

Which solution should the security engineer recommend?

- A. Use IAM Resource Access Manager to create shared resources for each required security group and apply an IAM policy that permits read-only access to the

security groups only.

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

Answer: B

NEW QUESTION 51

- (Exam Topic 1)

A company's security team has defined a set of IAM Config rules that must be enforced globally in all IAM accounts the company owns. What should be done to provide a consolidated compliance overview for the security team?

- A. Use IAM Organizations to limit IAM Config rules to the appropriate Regions, and then consolidate the Amazon CloudWatch dashboard into one IAM account.
- B. Use IAM Config aggregation to consolidate the views into one IAM account, and provide role access to the security team.
- C. Consolidate IAM Config rule results with an IAM Lambda function and push data to Amazon SQ
- D. Use Amazon SNS to consolidate and alert when some metrics are triggered.
- E. Use Amazon GuardDuty to load data results from the IAM Config rules compliance status, aggregate GuardDuty findings of all IAM accounts into one IAM account, and provide role access to the security team.

Answer: B

NEW QUESTION 53

- (Exam Topic 1)

A security engineer is asked to update an AW3 CloudTrail log file prefix for an existing trail. When attempting to save the change in the CloudTrail console, the security engineer receives the following error message. "There is a problem with the bucket policy"

What will enable the security engineer to saw the change?

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

Answer: C

Explanation:

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

NEW QUESTION 58

- (Exam Topic 1)

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

Which policy should the security engineer apply?

- A.

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

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

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

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

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

Answer: A

NEW QUESTION 63

- (Exam Topic 1)

Users report intermittent availability of a web application hosted on IAM. Monitoring systems report an excess of abnormal network traffic followed by high CPU utilization on the application web tier. Which of the following techniques will improve the availability of the application? (Select TWO.)

- A. Deploy IAM WAF to block all unsecured web applications from accessing the internet.
- B. Deploy an Intrusion Detection/Prevention System (IDS/IPS) to monitor or block unusual incoming network traffic.
- C. Configure security groups to allow outgoing network traffic only from hosts that are protected with up-to-date antivirus software.
- D. Create Amazon CloudFront distribution and configure IAM WAF rules to protect the web applications from malicious traffic.
- E. Use the default Amazon VPC for external-facing systems to allow IAM to actively block malicious network traffic affecting Amazon EC2 instances.

Answer: BD

NEW QUESTION 67

- (Exam Topic 1)

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

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

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

Answer: D

NEW QUESTION 70

- (Exam Topic 1)

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

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

- A. Create a NACL to allow access on TCP port 443 from the 1,500 subsidiary CIDR block ranges. Associate the NACL to both the NLB and EC2 instances
- B. Create an IAM security group to allow access on TCP port 443 from the 1,500 subsidiary CIDR block range
- C. Associate the security group to the NLB
- D. Create a second security group for EC2 instances with access on TCP port 443 from the NLB security group.
- E. Create an IAM PrivateLink endpoint service in the parent company account attached to the NLB
- F. Create an IAM security group for the instances to allow access on TCP port 443 from the IAM PrivateLink endpoint

- G. Use IAM PrivateLink interface endpoints in the 1,500 subsidiary IAM accounts to connect to the data processing application.
- H. Create an IAM security group to allow access on TCP port 443 from the 1,500 subsidiary CIDR block range
- I. Associate the security group with EC2 instances.

Answer: D

NEW QUESTION 74

- (Exam Topic 1)

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

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

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

Answer: D

Explanation:

References:

<https://docs.IAM.amazon.com/AmazonS3/latest/dev/serv-side-encryption.html>

Server-Side Encryption with Amazon S3-Managed Keys (SSE-S3) When you use Server-Side Encryption with Amazon S3-Managed Keys (SSE-S3), each object is encrypted with a unique key. Server-Side Encryption with Customer Master Keys (CMKs) Stored in IAM Key Management Service (SSE-KMS) is similar to SSE-S3, but with some additional benefits and charges for using this service.

When you use SSE-KMS to protect your data without an S3 Bucket Key, Amazon S3 uses an individual IAM KMS data key for every object. It makes a call to IAM KMS every time a request is made against a

KMS-encrypted object. <https://docs.IAM.amazon.com/AmazonS3/latest/dev/bucket-key.html>

<https://docs.IAM.amazon.com/kms/latest/developerguide/symmetric-asymmetric.html>

NEW QUESTION 79

- (Exam Topic 1)

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

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

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

Answer: B

Explanation:

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

NEW QUESTION 83

- (Exam Topic 1)

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

Which set of steps should the software engineering team take?

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

Answer: A

NEW QUESTION 85

- (Exam Topic 1)

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

What could be causing these terminations?

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

Answer: B

Explanation:

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

NEW QUESTION 90

- (Exam Topic 1)

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

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

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

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

Answer: AD

NEW QUESTION 93

- (Exam Topic 1)

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

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

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

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

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

Answer: D

NEW QUESTION 98

- (Exam Topic 1)

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

Which solution would meet these requirements?

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

Answer: A

NEW QUESTION 102

- (Exam Topic 1)

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

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

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

Answer: A

Explanation:

"To turn off access to instance metadata on an existing instance....." <https://docs.IAM.amazon.com/IAMEC2/latest/UserGuide/configuring-instance-metadata-service.html> You can disable the service for existing (running or stopped) EC2 instances. <https://docs.IAM.amazon.com/cli/latest/reference/ec2/modify-instance->

metadata-options.html

NEW QUESTION 104

- (Exam Topic 1)

A company has several workloads running on IAM. Employees are required to authenticate using on-premises ADFS and SSO to access the IAM Management Console. Developers migrated an existing legacy web application to an Amazon EC2 instance. Employees need to access this application from anywhere on the internet, but currently, there is no authentication system built into the application.

How should the Security Engineer implement employee-only access to this system without changing the application?

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

Answer: A

Explanation:

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

- Authenticate users through social IdPs, such as Amazon, Facebook, or Google, through the user pools supported by Amazon Cognito.
- Authenticate users through corporate identities, using SAML, LDAP, or Microsoft AD, through the user pools supported by Amazon Cognito.

NEW QUESTION 105

- (Exam Topic 1)

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

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

Answer: A

NEW QUESTION 106

- (Exam Topic 1)

A company's Security Officer is concerned about the risk of IAM account root user logins and has assigned a Security Engineer to implement a notification solution for near-real-time alerts upon account root user logins.

How should the Security Engineer meet these requirements?

- A. Create a cron job that runs a script lo download the IAM IAM security credentials W
- B. parse the file for account root user logins and email the Security team's distribution 1st
- C. Run IAM CloudTrail logs through Amazon CloudWatch Events to detect account roo4 user logins and trigger an IAM Lambda function to send an Amazon SNS notification to the Security team's distribution list.
- D. Save IAM CloudTrail logs to an Amazon S3 bucket in the Security team's account Process the CloudTrail logs with the Security Engineer's logging solution for account root user logins Send an Amazon SNS notification to the Security team upon encountering the account root user login events
- E. Save VPC Plow Logs to an Amazon S3 bucket in the Security team's account and process the VPC Flow Logs with their logging solutions for account root user logins Send an Amazon SNS notification to the Security team upon encountering the account root user login events

Answer: B

NEW QUESTION 108

- (Exam Topic 1)

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

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

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

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

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

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

- F. Log in to the IAM Fargate instance, create a script to read the secret value from IAM Secret Manager, and inject the environment variable
- G. Ask the application team to redeploy the application.

Answer: BEF

NEW QUESTION 111

- (Exam Topic 1)

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

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

Answer: B

NEW QUESTION 113

- (Exam Topic 1)

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

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

Answer: B

NEW QUESTION 116

- (Exam Topic 1)

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

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

Answer: B

NEW QUESTION 119

- (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 maximum 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 CMK
- 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 121

- (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 acces
- 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 123

- (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 125

- (Exam Topic 1)

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

What should the security engineer recommend?

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

Answer: B

NEW QUESTION 130

- (Exam Topic 1)

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

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

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

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

Answer: D

Explanation:

https://docs.IAM.amazon.com/organizations/latest/APIReference/API_DetachPolicy.html

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

NEW QUESTION 133

- (Exam Topic 1)

A company hosts its public website on Amazon EC2 instances behind an Application Load Balancer (ALB). The instances are in an EC2 Auto Scaling group across multiple Availability Zones. The website is under a DDoS attack by a specific IoT device brand that is visible in the user agent A security engineer needs to mitigate the attack without impacting the availability of the public website.

What should the security engineer do to accomplish this?

- A. Configure a web ACL rule for IAM WAF to block requests with a string match condition for the user agent of the IoT device
- B. Associate the v/eb ACL with the ALB.
- C. Configure an Amazon CloudFront distribution to use the ALB as an origin
- D. Configure a web ACL rule for IAM WAF to block requests with a string match condition for the user agent of the IoT device
- E. Associate the web ACL with the ALB Change the public DNS entry of the website to point to the CloudFront distribution.
- F. Configure an Amazon CloudFront distribution to use a new ALB as an origin
- G. Configure a web ACL rule for IAM WAF to block requests with a string match condition for the user agent of the IoT device
- H. Change the ALB security group to allow access from CloudFront IP address ranges only Change the public DNS entry of the website to point to the CloudFront distribution.
- I. Activate IAM Shield Advanced to enable DDoS protection
- J. Apply an IAM WAF ACL to the AL
- K. and configure a listener rule on the ALB to block IoT devices based on the user agent.

Answer: D

NEW QUESTION 135

- (Exam Topic 1)

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

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

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

- A. Create a customer managed CMK Copy the EBS snapshot encrypting the destination snapshot using the new CMK.
- B. Allow forensics accounting principals to use the CMK by modifying its policy.
- C. Create an Amazon EC2 instance
- D. Attach the encrypted and suspicious EBS volume
- E. Copy data from the suspicious volume to an unencrypted volume
- F. Snapshot the unencrypted volume
- G. Copy the EBS snapshot to the new decrypted snapshot
- H. Restore a volume from the suspicious EBS snapshot
- I. Create an unencrypted EBS volume of the same size.
- J. Share the target EBS snapshot with the forensics account.

Answer: ABF

NEW QUESTION 140

- (Exam Topic 1)

An employee accidentally exposed an IAM access key and secret access key during a public presentation. The company Security Engineer immediately disabled the key.

How can the Engineer assess the impact of the key exposure and ensure that the credentials were not misused? (Choose two.)

- A. Analyze IAM CloudTrail for activity.
- B. Analyze Amazon CloudWatch Logs for activity.
- C. Download and analyze the IAM Use report from IAM Trusted Advisor.
- D. Analyze the resource inventory in IAM Config for IAM user activity.
- E. Download and analyze a credential report from IAM.

Answer: AD

Explanation:

https://docs.IAM.amazon.com/IAM/latest/UserGuide/id_credentials_getting-report.html

NEW QUESTION 142

- (Exam Topic 1)

A company's security information events management (SIEM) tool receives new IAM CloudTrail logs from an Amazon S3 bucket that is configured to send all object created event notification to an Amazon SNS topic. An Amazon SQS queue is subscribed to this SNS topic. The company's SEM tool then ports this SQS queue for new messages using an IAM role and fetches new log events from the S3 bucket based on the SQS messages. After a recent security review that resulted in restricted permissions, the SEM tool has stopped receiving new CloudTrail logs. Which of the following are possible causes of this issue? (Select THREE)

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

Answer: ADF

NEW QUESTION 147

- (Exam Topic 1)

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

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

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

Answer: BC

NEW QUESTION 151

- (Exam Topic 1)

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

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

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

Answer: D

NEW QUESTION 152

- (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 CMK
- 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 156

- (Exam Topic 1)

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

How can the Security Engineer accomplish this using IAM services?

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

Answer: A

Explanation:

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

NEW QUESTION 160

- (Exam Topic 1)

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

- A. Configuring IAM Organizations to monitor root user API calls on the paying account
- B. Creating an Amazon CloudWatch Events rule that will trigger when any API call from the root user is reported
- C. Configuring Amazon Inspector to scan the IAM account for any root user activity
- D. Configuring IAM Trusted Advisor to send an email to the Security team when the root user logs in to the console
- E. Using Amazon SNS to notify the target group

Answer: BE

NEW QUESTION 163

- (Exam Topic 2)

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

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

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

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

Answer: AC

Explanation:

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

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

NEW QUESTION 166

- (Exam Topic 2)

A company wants to control access to its IAM resources by using identities and groups that are defined in its existing Microsoft Active Directory. What must the company create in its IAM account to map permissions for IAM services to Active Directory user attributes?

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

Answer: C

Explanation:

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

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

NEW QUESTION 167

- (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 168

- (Exam Topic 2)

You have a web site that is sitting behind IAM Cloudfront. You need to protect the web site against threats such as SQL injection and Cross site scripting attacks. Which of the following service can help in such a scenario Please select:

- A. IAM Trusted Advisor
- B. IAM WAF
- C. IAM Inspector
- D. IAM Config

Answer: B

Explanation:

The IAM Documentation mentions the following

IAM WAF is a web application firewall that helps detect and block malicious web requests targeted at your web applications. IAM WAF allows you to create rules that can help protect against common web exploits like SQL injection and cross-site scripting. With IAM WAF you first identify the resource (either an Amazon CloudFront distribution or an Application Load Balancer) that you need to protect.

Option A is invalid because this will only give advise on how you can better the security in your IAM account but not protect against threats mentioned in the question.

Option C is invalid because this can be used to scan EC2 Instances for vulnerabilities but not protect against threats mentioned in the question.

Option D is invalid because this can be used to check config changes but not protect against threats mentioned in the quest

For more information on IAM WAF, please visit the following URL: <https://IAM.amazon.com/waf/details>;

The correct answer is: IAM WAF

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NEW QUESTION 173

- (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 AML 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 177

- (Exam Topic 2)

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

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

How can the Security Engineer address the issue?

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

Answer: B

Explanation:

Trusted IP lists consist of IP addresses that you have whitelisted for secure communication with your IAM infrastructure and applications. GuardDuty does not generate findings for IP addresses on trusted IP lists. At any given time, you can have only one uploaded trusted IP list per IAM account per region.

NEW QUESTION 178

- (Exam Topic 2)

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

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

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

Answer: D

Explanation:

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

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

NEW QUESTION 183

- (Exam Topic 2)

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

Pattern: "randomID_datestamp_PII.csv" Example:

"1234567_12302017_000-00-0000.csv"

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

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

Answer: C

Explanation:

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

NEW QUESTION 188

- (Exam Topic 2)

The Security Engineer for a mobile game has to implement a method to authenticate users so that they can save their progress. Because most of the users are part of the same OpenID-Connect compatible social media website, the Security Engineer would like to use that as the identity provider.

Which solution is the SIMPLEST way to allow the authentication of users using their social media identities?

- A. Amazon Cognito
- B. AssumeRoleWithWebIdentity API
- C. Amazon Cloud Directory
- D. Active Directory (AD) Connector

Answer: A

NEW QUESTION 193

- (Exam Topic 2)

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

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

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

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

Answer: A

Explanation:

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

NEW QUESTION 194

- (Exam Topic 2)

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

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

Answer: C

Explanation:

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

NEW QUESTION 196

- (Exam Topic 2)

A Security Engineer must implement mutually authenticated TLS connections between containers that communicate inside a VPC. Which solution would be MOST secure and easy to maintain?

- A. Use IAM Certificate Manager to generate certificates from a public certificate authority and deploy them to all the containers.
- B. Create a self-signed certificate in one container and use IAM Secrets Manager to distribute the certificate to the other containers to establish trust.
- C. Use IAM Certificate Manager Private Certificate Authority (ACM PCA) to create a subordinate certificate authority, then create the private keys in the containers and sign them using the ACM PCA API.
- D. Use IAM Certificate Manager Private Certificate Authority (ACM PCA) to create a subordinate certificate authority, then use IAM Certificate Manager to generate the private certificates and deploy them to all the containers.

Answer: D

NEW QUESTION 197

- (Exam Topic 2)

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

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

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

Answer: AC

Explanation:

The IAM Documentation mentions the following

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

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

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

<https://docs.IAM.amazon.com/IAMcloudtrail/latest/userguide/cloudtrail-log-file-validation-intro.html> For more information on delivering Cloudtrail logs from multiple accounts, please visit the below URL:

<https://docs.IAM.amazon.com/IAMcloudtrail/latest/userguide/cloudtrail-receive-logs-from-multiple-accounts.html>

The correct answers are: Create an S3 bucket in a dedicated log account and grant the other accounts write only access. Deliver all log files from every account to this S3 bucket, Enable Cloud Trail log file integrity validation

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NEW QUESTION 199

- (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.amazonaws.com/AmazonCloudWatch/latest/logs/QuickStartEC2Instance.html>

NEW QUESTION 201

- (Exam Topic 2)

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

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

Answer: CE

NEW QUESTION 205

- (Exam Topic 2)

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

How can this be accomplished? (Choose two.)



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

Answer: BD

Explanation:

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

NEW QUESTION 209

- (Exam Topic 2)

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

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

The IAM user policy is as follows:


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

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

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

Answer: CE

Explanation:

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

NEW QUESTION 214

- (Exam Topic 2)

Which of the following are valid event sources that are associated with web access control lists that trigger IAM WAF rules? (Choose two.)

- A. Amazon S3 static web hosting
- B. Amazon CloudFront distribution
- C. Application Load Balancer
- D. Amazon Route 53
- E. VPC Flow Logs

Answer: BC

Explanation:

A web access control list (web ACL) gives you fine-grained control over the web requests that your Amazon API Gateway API, Amazon CloudFront distribution or Application Load Balancer responds to.

NEW QUESTION 217

- (Exam Topic 2)

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

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

- A. The Amazon WorkMail and Amazon SES services have delegated KMS encrypt and decrypt permissions to the ExampleUser principal in the 111122223333

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

Answer: C

NEW QUESTION 221

- (Exam Topic 2)

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

Which of the following mitigations should be recommended?

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

Answer: A

Explanation:

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

NEW QUESTION 222

- (Exam Topic 2)

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

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

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

What steps should the Engineer perform to prevent this outcome?

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

Answer: B

NEW QUESTION 224

- (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 225

- (Exam Topic 2)

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

What is causing this situation?

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

Answer: D

Explanation:

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

NEW QUESTION 226

- (Exam Topic 2)

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

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

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

Answer: D

Explanation:

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

The IAM Documentation additionally mentions the following

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

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

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

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

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

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

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

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

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NEW QUESTION 231

- (Exam Topic 2)

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

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

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

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

Answer: B

NEW QUESTION 235

- (Exam Topic 2)

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

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

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

Answer: D

Explanation:

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

NEW QUESTION 237

- (Exam Topic 2)

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

Please select:

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

Answer: B

Explanation:

The IAM Documentation mentions the following.

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

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

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

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

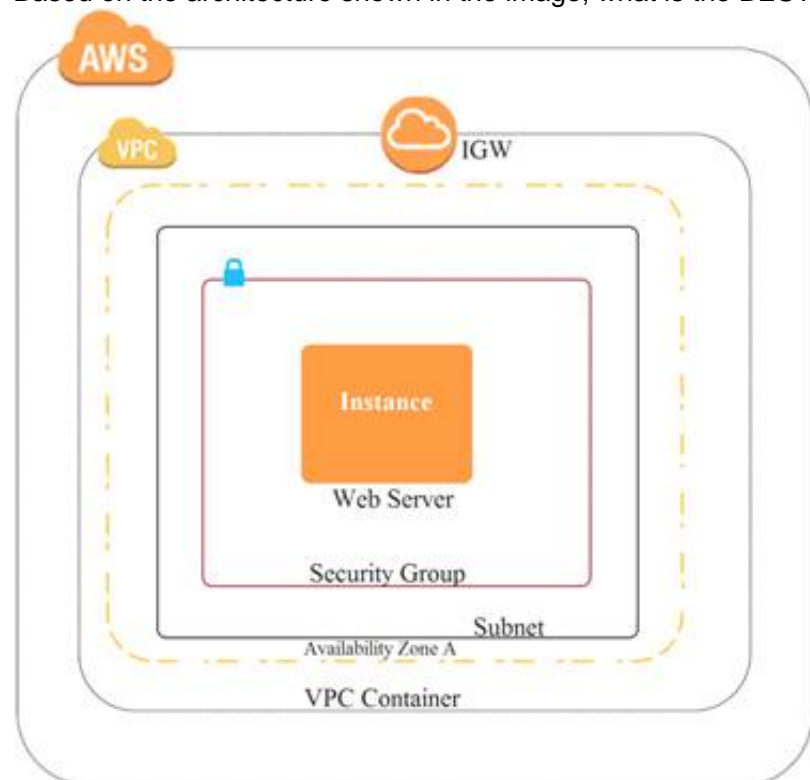
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NEW QUESTION 238

- (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 240

- (Exam Topic 2)

A company has a forensic logging use case whereby several hundred applications running on Docker on EC2 need to send logs to a central location. The Security Engineer must create a logging solution that is able to perform real-time analytics on the log files, grants the ability to replay events, and persists data.

Which IAM Services, together, can satisfy this use case? (Select two.)

- A. Amazon Elasticsearch
- B. Amazon Kinesis
- C. Amazon SQS
- D. Amazon CloudWatch
- E. Amazon Athena

Answer: AB

Explanation:

<https://docs.aws.amazon.com/whitepapers/latest/IAM-overview/analytics.html#amazon-athena>

NEW QUESTION 245

- (Exam Topic 2)

A company has deployed a custom DNS server in IAM. The Security Engineer wants to ensure that Amazon EC2 instances cannot use the Amazon-provided DNS.

How can the Security Engineer block access to the Amazon-provided DNS in the VPC?

- A. Deny access to the Amazon DNS IP within all security groups.
- B. Add a rule to all network access control lists that deny access to the Amazon DNS IP.
- C. Add a route to all route tables that black holes traffic to the Amazon DNS IP.

D. Disable DNS resolution within the VPC configuration.

Answer: D

Explanation:

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

NEW QUESTION 249

- (Exam Topic 2)

An organization has a system in IAM that allows a large number of remote workers to submit data files. File sizes vary from a few kilobytes to several megabytes. A recent audit highlighted a concern that data files are not encrypted while in transit over untrusted networks. Which solution would remediate the audit finding while minimizing the effort required?

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

Answer: C

NEW QUESTION 251

- (Exam Topic 2)

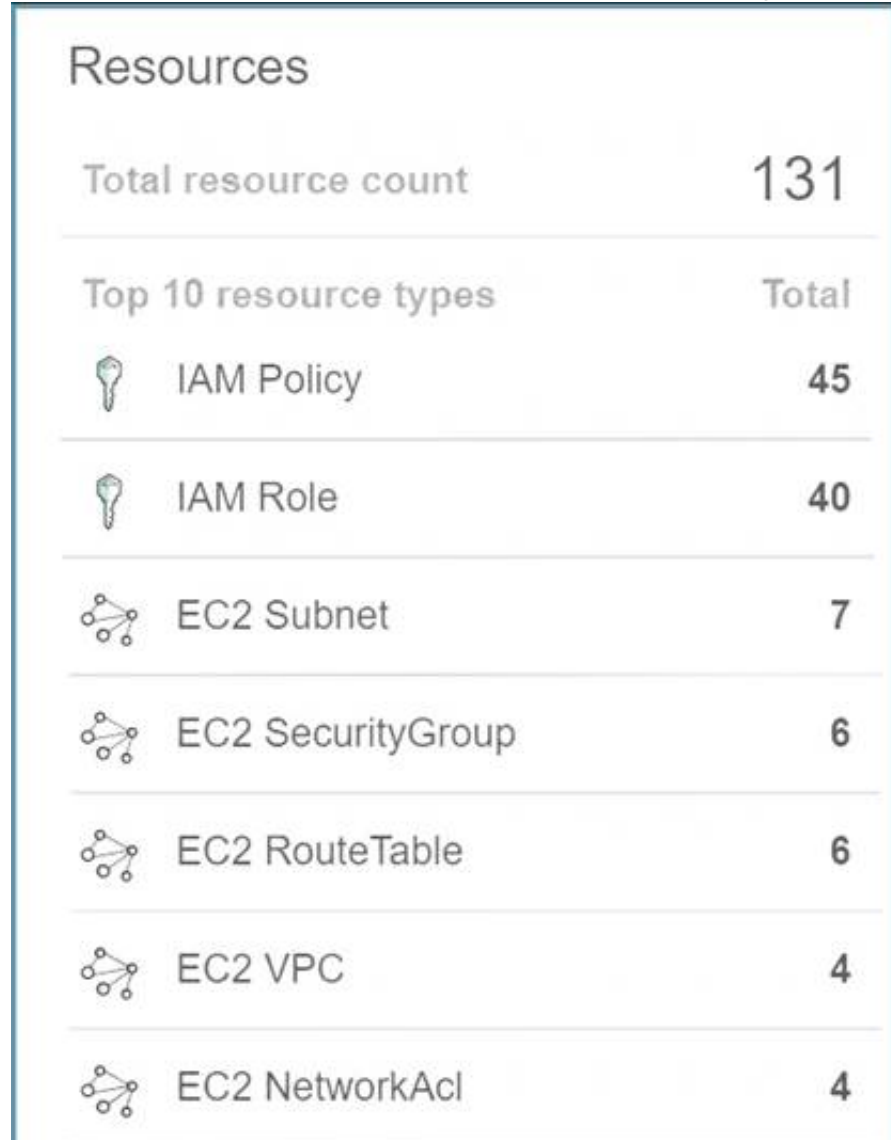
Your company has a set of resources defined in the IAM Cloud. Their IT audit department has requested to get a list of resources that have been defined across the account. How can this be achieved in the easiest manner? Please select:








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

Answer: D

Explanation:

The most feasible option is to use IAM Config. When you turn on IAM Config, you will get a list of resources defined in your IAM Account. A sample snapshot of the resources dashboard in IAM Config is shown below C:\Users\wk\Desktop\mudassar\Untitled.jpg



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

Option A is incorrect because this would give the list of production based resources and now all resources Option B is partially correct But this will just add more maintenance overhead.
 Option C is incorrect because this can be used to log API activities but not give an account of all resou For more information on IAM Config, please visit the below URL: <https://docs.IAM.amazon.com/config/latest/developereuide/how-does-confie-work.html>
 The correct answer is: Use IAM Config to get the list of all resources
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NEW QUESTION 253

- (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 257

- (Exam Topic 2)

A company maintains sensitive data in an Amazon S3 bucket that must be protected using an IAM KMS

CMK. The company requires that keys be rotated automatically every year. How should the bucket be configured?

- A. Select server-side encryption with Amazon S3-managed keys (SSE-S3) and select an IAM-managed CMK.
- B. Select Amazon S3-IAM KMS managed encryption keys (S3-KMS) and select a customer-managed CMK with key rotation enabled.
- C. Select server-side encryption with Amazon S3-managed keys (SSE-S3) and select a customer-managed CMK that has imported key material.
- D. Select server-side encryption with IAM KMS-managed keys (SSE-KMS) and select an alias to an IAM-managed CMK.

Answer: B

NEW QUESTION 258

- (Exam Topic 2)

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

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

Please select:

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

Answer: A

Explanation:

Your answer is incorrect Answer-A

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

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

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

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

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

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

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NEW QUESTION 263

- (Exam Topic 2)

You are devising a policy to allow users to have the ability to access objects in a bucket called appbucket. You define the below custom bucket policy

```
{ "ID": "Policy1502987489630",  
  "Version": "2012-10-17",  
  "Statement": [  
    {  
      "Sid": "Stmt1502987487640",  
      "Action": [  
        "s3:GetObject",  
        "s3:GetObjectVersion"  
      ],  
      "Effect": "Allow",  
      "Resource": "arn:aws:s3:::appbucket",  
      "Principal": "*"   
    }  
  ]  
}
```

But when you try to apply the policy you get the error "Action does not apply to any resource(s) in statement." What should be done to rectify the error Please select:

- A. Change the IAM permissions by applying PutBucketPolicy permissions.
- B. Verify that the policy has the same name as the bucket nam
- C. If no
- D. make it the same.
- E. Change the Resource section to "arn:IAM:s3:::appbucket/*".
- F. Create the bucket "appbucket" and then apply the policy.

Answer: C

Explanation:

When you define access to objects in a bucket you need to ensure that you specify to which objects in the bucket access needs to be given to. In this case, the * can be used to assign the permission to all objects in the bucket

Option A is invalid because the right permissions are already provided as per the question requirement Option B is invalid because it is not necessary that the policy has the same name as the bucket

Option D is invalid because this should be the default flow for applying the policy For more information on bucket policies please visit the below URL:

<https://docs.IAM.amazon.com/AmazonS3/latest/dev/example-bucket-policies.html>

The correct answer is: Change the Resource section to "arn:IAM:s3:::appbucket/" Submit your Feedback/Queries to our Experts

NEW QUESTION 265

- (Exam Topic 2)

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

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

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

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

Answer: A

Explanation:

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

NEW QUESTION 266

- (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 268

- (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 270

- (Exam Topic 2)

An organization is using Amazon CloudWatch Logs with agents deployed on its Linux Amazon EC2 instances. The agent configuration files have been checked and the application log files to be pushed are configured correctly. A review has identified that logging from specific instances is missing. Which steps should be taken to troubleshoot the issue? (Choose two.)

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

Answer: AB

Explanation:

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

NEW QUESTION 273

- (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 275

- (Exam Topic 2)

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

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

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

Answer: B

Explanation:

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

NEW QUESTION 278

- (Exam Topic 2)

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

How can the Security Engineer further protect currently running instances?

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

Answer: C

NEW QUESTION 281

- (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 283

- (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:

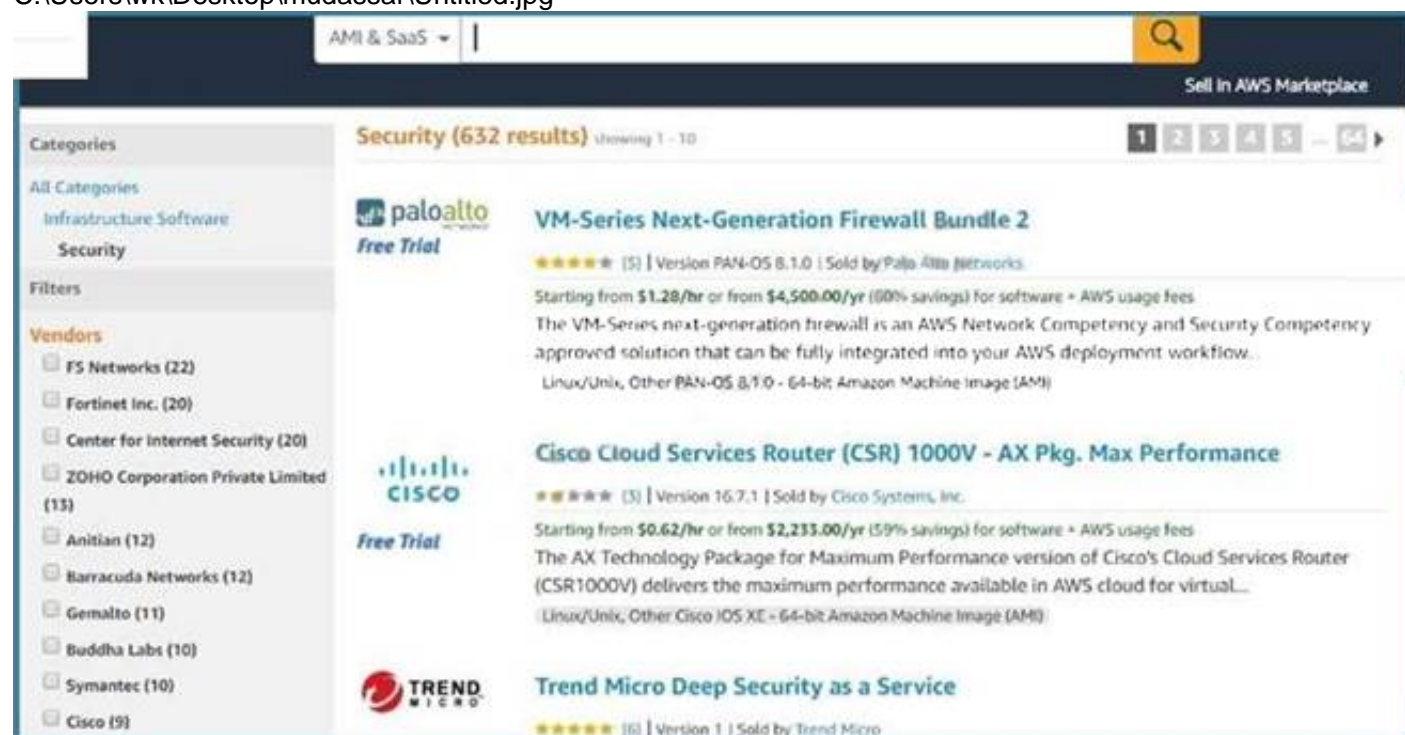
- A. Use IAM WAF to catch all intrusions occurring on the systems in the VPC
- B. Use a custom solution available in the IAM Marketplace
- C. Use VPC Flow logs to detect the issues and flag them accordingly.
- D. Use IAM Cloudwatch to monitor all traffic

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 284

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