Amazon-Web-Services

Exam Questions SCS-C03

AWS Certified Security - Specialty

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NEW QUESTION 1
A company??s developers are using AWS Lambda function URLs to invoke functions directly. The company must ensure that developers cannot configure or deploy unauthenticated functions inproduction accounts. The company wants to meet this requirement by using AWS Organizations. The solution must not require additional work for the developers.
Which solution will meet these requirements?

A. Require the developers to configure all function URLs to support cross-origin resource sharing (CORS) when the functions are called from a different domain.
B. Use an AWS WAF delegated administrator account to view and block unauthenticated access to function URLs in production accounts, based on the OU of accounts that are using the functions.
C. Use SCPs to allow all lambda:CreateFunctionUrlConfig and lambda:UpdateFunctionUrlConfig actions that have a lambda:FunctionUrlAuthType condition key value of AWS_IAM.
D. Use SCPs to deny all lambda:CreateFunctionUrlConfig and lambda:UpdateFunctionUrlConfig actions that have a lambda:FunctionUrlAuthType condition key value of NONE.

Answer: D

NEW QUESTION 2
A company is attempting to conduct forensic analysis on an Amazon EC2 instance, but the company is unable to connect to the instance by using AWS Systems Manager Session Manager. The company has installed AWS Systems Manager Agent (SSM Agent) on the EC2 instance.
The EC2 instance is in a subnet in a VPC that does not have an internet gateway attached. The company has associated a security group with the EC2 instance. The security group does not have inbound or outbound rules. The subnet??s network ACL allows all inbound and outbound traffic.
Which combination of actions will allow the company to conduct forensic analysis on the EC2 instance without compromising forensic data? (Select THREE.)
A. Update the EC2 instance security group to add a rule that allows outbound traffic on port 443 for 0.0.0.0/0.
B. Update the EC2 instance security group to add a rule that allows inbound traffic on port 443 to the VPC's CIDR range.
C. Create an EC2 key pai
D. Associate the key pair with the EC2 instance.
E. Create a VPC interface endpoint for Systems Manager in the VPC where the EC2 instance is located.
F. Attach a security group to the VPC interface endpoin
G. Allow inbound traffic on port 443 to the VPC's CIDR range.
H. Create a VPC interface endpoint for the EC2 instance in the VPC where the EC2 instance is located.

Answer: ADE

NEW QUESTION 3
A company needs to identify the root cause of security findings and investigate IAM roles involved in those findings. The company has enabled VPC Flow Logs, Amazon GuardDuty, and AWS CloudTrail.
Which solution will meet these requirements?

A. Use Amazon Detective to investigate IAM roles and visualize findings.
B. Use Amazon Inspector and CloudWatch dashboards.
C. Export GuardDuty findings to S3 and analyze with Athena.
D. Use Security Hub custom actions to investigate IAM roles.

Answer: A

NEW QUESTION 4
A company has decided to move its fleet of Linux-based web server instances to an Amazon EC2 Auto Scaling group. Currently, the instances are static and are launched manually. When an administrator needs to view log files, the administrator uses SSH to establish a connection to the instances and retrieves the logs manually.
The company often needs to query the logs to produce results about application sessions and user issues. The company does not want its new automatically scaling architecture to result in the loss of any log files when instances are scaled in.
Which combination of steps should a security engineer take to meet these requirements MOST cost-effectively? (Select TWO.)

A. Configure a cron job on the instances to forward the log files to Amazon S3 periodically.
B. Configure AWS Glue and Amazon Athena to query the log files.
C. Configure the Amazon CloudWatch agent on the instances to forward the logs to Amazon CloudWatch Logs.
D. Configure Amazon CloudWatch Logs Insights to query the log files.
E. Configure the instances to write the logs to an Amazon Elastic File System (Amazon EFS) volume.

Answer: CD

NEW QUESTION 5
An application is running on an Amazon EC2 instance that has an IAM role attached. The IAM role provides access to an AWS Key Management Service (AWS KMS) customer managed key and an Amazon S3 bucket. The key is used to access 2 TB of sensitive data that is stored in the S3 bucket. A security engineer discovers a potential vulnerability on the EC2 instance that could result in the compromise of the sensitive data. Due to other critical operations, the security engineer cannot immediately shut down the EC2 instance for vulnerability patching.
What is the FASTEST way to prevent the sensitive data from being exposed?

A. Download the data from the existing S3 bucket to a new EC2 instanc
B. Then delete the data from the S3 bucke
C. Re-encrypt the data with a client-based ke
D. Upload the data to a new S3 bucket.
E. Block access to the public range of S3 endpoint IP addresses by using a host-based firewal
F. Ensure that internet-bound traffic from the affected EC2 instance is routed through the host-based firewall.
G. Revoke the IAM role??s active session permission
H. Update the S3 bucket policy to deny access to the IAM rol

I. Remove the IAM role from the EC2 instance profile.
J. Disable the current ke
K. Create a new KMS key that the IAM role does not have access to, and re-encrypt all the data with the new ke
L. Schedule the compromised key for deletion.

Answer: C

NEW QUESTION 6
A company has a VPC that has no internet access and has the private DNS hostnames option enabled. An Amazon Aurora database is running inside the VPC. A security engineer wants to use AWS Secrets Manager to automatically rotate the credentials for the Aurora database. The security engineer configures the Secrets Manager default AWS Lambda rotation function to run inside the same VPC that the Aurora database uses. However, the security engineer determines that the password cannot be rotated properly because the Lambda function cannot communicate with the Secrets Manager endpoint.
What is the MOST secure way that the security engineer can give the Lambda function the ability to communicate with the Secrets Manager endpoint?

A. Add a NAT gateway to the VPC to allow access to the Secrets Manager endpoint.
B. Add a gateway VPC endpoint to the VPC to allow access to the Secrets Manager endpoint.
C. Add an interface VPC endpoint to the VPC to allow access to the Secrets Manager endpoint.
D. Add an internet gateway for the VPC to allow access to the Secrets Manager endpoint.

Answer: C

NEW QUESTION 7
A security engineer has designed a VPC to segment private traffic from public traffic. The VPC includes two Availability Zones. Each Availability Zone contains one public subnet and one private subnet. Three route tables exist: one for the public subnets and one for each private subnet.
The security engineer discovers that all four subnets are routing traffic through the internet gateway that is attached to the VPC.
Which combination of steps should the security engineer take to remediate this scenario? (Select TWO.)

A. Verify that a NAT gateway has been provisioned in the public subnet in each Availability Zone.
B. Verify that a NAT gateway has been provisioned in the private subnet in each Availability Zone.
C. Modify the route tables for the public subnets to add a local route to the VPC CIDR range.
D. Modify the route tables for the private subnets to route 0.0.0.0/0 to the NAT gateway in the public subnet of the same Availability Zone.
E. Modify the route tables for the private subnets to route 0.0.0.0/0 to the internet gateway.

Answer: AD

NEW QUESTION 8
A company is running its application on AWS. The company has a multi-environment setup, and each environment is isolated in a separate AWS account. The company has an organization in AWS Organizations to manage the accounts. There is a single dedicated security account for the organization. The company must create an inventory of all sensitive data that is stored in Amazon S3 buckets across the organization's accounts. The findings must be visible from a single location.
Which solution will meet these requirements?

A. Set the security account as the delegated administrator for Amazon Macie and AWS Security Hu
B. Enable and configure Macie to publish sensitive data findings to Security Hub.
C. Set the security account as the delegated administrator for AWS Security Hu
D. In each account, configure Amazon Inspector to scan the S3 buckets for sensitive dat
E. Publish sensitive data findings to Security Hub.
F. In each account, configure Amazon Inspector to scan the S3 buckets for sensitive dat
G. Enable Amazon Inspector integration with AWS Trusted Adviso
H. Publish sensitive data findings to Trusted Advisor.
I. In each account, enable and configure Amazon Macie to detect sensitive dat
J. Enable Macie integration with AWS Trusted Adviso
K. Publish sensitive data findings to Trusted Advisor.

Answer: A

NEW QUESTION 9
A company is building a secure solution that relies on an AWS Key Management Service (AWS KMS) customer managed key. The company wants to allow AWS Lambda to use the KMS key. However, the company wants to prevent Amazon EC2 from using the key.
Which solution will meet these requirements?

A. Use IAM explicit deny for EC2 instance profiles and allow for Lambda roles.
B. Use a KMS key policy with kms:ViaService conditions to allow Lambda usage and deny EC2 usage.
C. Use aws:SourceIp and aws:AuthorizedService condition keys in the KMS key policy.
D. Use an SCP to deny EC2 and allow Lambda.

Answer: B

NEW QUESTION 10
A company has security requirements for Amazon Aurora MySQL databases regarding encryption, deletion protection, public access, and audit logging. The company needs continuous monitoring and real-time visibility into compliance status.
Which solution will meet these requirements?

A. Use AWS Audit Manager with a custom framework.
B. Enable AWS Config and use managed rules to monitor Aurora MySQL compliance.
C. Use AWS Security Hub configuration policies.
D. Use EventBridge and Lambda with custom metrics.

Answer: B

NEW QUESTION 10
A company has several Amazon S3 buckets that do not enforce encryption in transit. A security engineer must implement a solution that enforces encryption in transit for all the company's existing and future S3 buckets.
Which solution will meet these requirements?

A. Enable AWS Confi
B. Create a proactive AWS Config Custom Policy rul
C. Create aGuard clause to evaluate the S3 bucket policies to check for a value of True for the aws:SecureTransport condition ke
D. If the AWS Config rule evaluates to NON_COMPLIANT, block resource creation.
E. Enable AWS Confi
F. Configure the s3-bucket-ssl-requests-only AWS Config managed rule and set the rule trigger type to Hybri
G. Create an AWS Systems Manager Automation runbook that applies a bucket policy to deny requests when the value of the aws:SecureTransport condition key is Fals
H. Configure automatic remediatio
I. Set the runbook as the target of the rule.
J. Enable Amazon Inspecto
K. Create a custom AWS Lambda rul
L. Create a Lambda function that applies a bucket policy to deny requests when the value of the aws:SecureTransport condition key is Fals
M. Set the Lambda function as the target of the rule.
N. Create an AWS CloudTrail trai
O. Enable S3 data events on the trai
P. Create an AWS Lambda function that applies a bucket policy to deny requests when the value of the aws:SecureTransport condition key is Fals
Q. Configure the CloudTrail trail to invoke the Lambda function.

Answer: B

NEW QUESTION 14
A security engineer discovers that a company's user passwords have no required minimum length. The company uses the following identity providers (IdPs):
• AWS Identity and Access Management (IAM) federated with on-premises Active Directory
• Amazon Cognito user pools that contain the user database for an AWS Cloud application Which combination of actions should the security engineer take to implement a required minimum password length? (Select TWO.)

A. Update the password length policy in the IAM configuration.
B. Update the password length policy in the Amazon Cognito configuration.
C. Update the password length policy in the on-premises Active Directory configuration.
D. Create an SCP in AWS Organizations to enforce minimum password length.
E. Create an IAM policy with a minimum password length condition.

Answer: BC

NEW QUESTION 18
A company has an AWS account that hosts a production application. The company receives an email notification that Amazon GuardDuty has detected an Impact:IAMUser/AnomalousBehavior finding in the account. A security engineer needs to run the investigation playbook for this security incident and must collect and analyze the information without affecting the application.
Which solution will meet these requirements MOST quickly?

A. Log in to the AWS account by using read-only credential
B. Review the GuardDuty finding for details about the IAM credentials that were use
C. Use the IAM console to add a DenyAll policy to the IAM principal.
D. Log in to the AWS account by using read-only credential
E. Review the GuardDuty finding to determine which API calls initiated the findin
F. Use Amazon Detective to review the API calls in context.
G. Log in to the AWS account by using administrator credential
H. Review the GuardDuty finding for details about the IAM credentials that were use
I. Use the IAM console to add a DenyAll policy to the IAM principal.
J. Log in to the AWS account by using read-only credential
K. Review the GuardDuty finding to determine which API calls initiated the findin
L. Use AWS CloudTrail Insights and AWS CloudTrail Lake to review the API calls in context.

Answer: B

NEW QUESTION 21
A company is using AWS CloudTrail and Amazon CloudWatch to monitor resources in an AWS account. The company??s developers have been using an IAM role in the account for the last 3 months.
A security engineer needs to refine the customer managed IAM policy attached to the role to ensure that the role provides least privilege access.
Which solution will meet this requirement with the LEAST effort?

A. Implement AWS IAM Access Analyzer policy generation on the role.
B. Implement AWS IAM Access Analyzer policy validation on the role.
C. Search CloudWatch logs to determine the actions the role invoked and to evaluate the permissions.
D. Use AWS Trusted Advisor to compare the policies assigned to the role against AWS best practices.

Answer: A

NEW QUESTION 22
A company stores infrastructure and application code in web-based, third-party, Git- compatible code repositories outside of AWS. The company wants to give the code repositories the ability to securely authenticate and assume an existing IAM role within the company's AWS account by using OpenID Connect (OIDC).
Which solution will meet these requirements?

A. Create an OIDC identity provider (IdP) by using AWS Identity and Access Management (IAM) federatio
B. Modify the trust policy of the IAM role to allow the code repositories to assume the IAM role.
C. Use AWS Identity and Access Management (IAM) Roles Anywhere to create a trust anchor that uses OID
D. Modify the trust policy of the IAM role to allow the code repositories to assume the IAM role.
E. Set up an account instance of AWS IAM Identity Cente
F. Configure access to the code repositories as a customer managed OIDC applicatio
G. Grant the application access to the IAM role.
H. Use AWS Resource Access Manager (AWS RAM) to create a new resource share that uses OID
I. Limit the resource share to the specified code repositorie
J. Grant the IAM role access to the resource share.

Answer: A

NEW QUESTION 23
A company has a PHP-based web application that uses Amazon S3 as an object store for user files. The S3 bucket is configured for server-side encryption with Amazon S3 managed keys (SSE-S3). New requirements mandate full control of encryption keys.
Which combination of steps must a security engineer take to meet these requirements? (Select THREE.)

A. Create a new customer managed key in AWS Key Management Service (AWS KMS).
B. Change the SSE-S3 configuration on the S3 bucket to server-side encryption with customer-provided keys (SSE-C).
C. Configure the PHP SDK to use the SSE-S3 key before upload.
D. Create an AWS managed key for Amazon S3 in AWS KMS.
E. Change the SSE-S3 configuration on the S3 bucket to server-side encryption with AWS KMS managed keys (SSE-KMS).
F. Change all the S3 objects in the bucket to use the new encryption key.

Answer: AEF

NEW QUESTION 27
A company is using AWS Organizations with nested OUs to manage AWS accounts. The company has a custom compliance monitoring service for the accounts. The monitoring service runs as an AWS Lambda function and is invoked by Amazon EventBridge Scheduler.
The company needs to deploy the monitoring service in all existing and future accounts in the organization. The company must avoid using the organization's management account when the management account is not required.
Which solution will meet these requirements?

A. Create a CloudFormation stack set in the organization's management account andmanually add new accounts.
B. Configure a delegated administrator account for AWS CloudFormatio
C. Create a CloudFormation StackSet in the delegated administrator account targeting the organization root with automatic deployment enabled.
D. Use Systems Manager delegated administration and Automation to deploy the Lambda function and schedule.
E. Create a Systems Manager Automation runbook in the management account and share it to accounts.

Answer: B

NEW QUESTION 28
A company runs a global ecommerce website using Amazon CloudFront. The company must block traffic from specific countries to comply with data regulations.
Which solution will meet these requirements MOST cost-effectively?

A. Use AWS WAF IP match rules.
B. Use AWS WAF geo match rules.
C. Use CloudFront geo restriction to deny the countries.
D. Use geolocation headers in CloudFront.

Answer: C

NEW QUESTION 30
A company uploads data files as objects into an Amazon S3 bucket. A vendor downloads the objects to perform data processing.
A security engineer must implement a solution that prevents objects from residing in the S3 bucket for longer than 72 hours.

A. Configure S3 Versioning to expire object versions that have been in the bucket for 72 hours.
B. Configure an S3 Lifecycle configuration rule on the bucket to expire objects after 72 hours.
C. Use the S3 Intelligent-Tiering storage class and configure expiration after 72 hours.
D. Generate presigned URLs that expire after 72 hours.

Answer: B

NEW QUESTION 32
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 must also handle volatile traffic patterns.
Which solution would have the MOST scalability and LOWEST latency?

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

Answer: C

NEW QUESTION 36

A company has a web application that reads from and writes to an Amazon S3 bucket. The company needs to authenticate all S3 API calls with AWS credentials.
Which solution will provide the application with AWS credentials?

A. Use Amazon Cognito identity pools and the GetId API.
B. Use Amazon Cognito identity pools and AssumeRoleWithWebIdentity.
C. Use Amazon Cognito user pools with ID tokens.
D. Use Amazon Cognito user pools with access tokens.

Answer: B

NEW QUESTION 38
A company uses AWS Organizations and has an SCP at the root that prevents sharing resources with external accounts. The company now needs to allow only the marketing account to share resources externally while preventing all other accounts from doing so. All accounts are in the same OU.
Which solution will meet these requirements?

A. Create a new SCP in the marketing account to explicitly allow sharing.
B. Edit the existing SCP to add a condition that excludes the marketing account.
C. Edit the SCP to include an Allow statement for the marketing account.
D. Use a permissions boundary in the marketing account.

Answer: B

NEW QUESTION 40
A company needs to detect unauthenticated access to its Amazon Elastic Kubernetes Service (Amazon EKS) clusters. The solution must require no additional configuration of the existing EKS deployment.
Which solution will meet these requirements with the LEAST operational effort?

A. Install a third-party security add-on.
B. Enable AWS Security Hub and monitor Kubernetes findings.
C. Monitor CloudWatch Container Insights metrics for EKS.
D. Enable Amazon GuardDuty and use EKS Audit Log Monitoring.

Answer: D

NEW QUESTION 41
A security engineer needs to control access to data that is encrypted with an AWS Key Management Service (AWS KMS) customer managed key. The security engineer also needs to use additional authenticated data (AAD) to prevent tampering with ciphertext.
Which solution will meet these requirements?

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

Answer: C

NEW QUESTION 46
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