

Exam Questions AWS-Certified-Security-Specialty

Amazon AWS Certified Security - Specialty

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NEW QUESTION 1

- (Exam Topic 1)

A company has an AWS account and allows a third-party contractor who uses another AWS account, to assume certain IAM roles. The company wants to ensure that IAM roles can be assumed by the contractor only if the contractor has multi-factor authentication enabled on their IAM user accounts. What should the company do to accomplish this?

A)

Add the following condition to the IAM policy attached to all IAM roles.

```
"Effect" : "Deny",  
"Condition" : { "BoolIfExists" : { "aws:MultiFactorAuthPresent" : false } }
```

B)

Add the following condition to the IAM policy attached to all IAM roles.

```
"Effect" : "Deny",  
"Condition" : { "Bool" : { "aws:MultiFactorAuthPresent" : false } }
```

C)

Add the following condition to the IAM policy attached to all IAM roles.

```
"Effect" : "Allow",  
"Condition" : { "Null" : { "aws:MultiFactorAuthPresent" : false } }
```

D)

Add the following condition to the IAM policy attached to all IAM roles.

```
"Effect" : "Allow",  
"Condition" : { "BoolIfExists" : { "aws:MultiFactorAuthPresent" : false } }
```

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

Answer: A

NEW QUESTION 2

- (Exam Topic 1)

A company has an encrypted Amazon S3 bucket. An Application Developer has an IAM policy that allows access to the S3 bucket, but the Application Developer is unable to access objects within the bucket. What is a possible cause of the issue?

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

Answer: C

NEW QUESTION 3

- (Exam Topic 1)

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

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

Answer: B

NEW QUESTION 4

- (Exam Topic 1)

A company has hundreds of AWS accounts, and a centralized Amazon S3 bucket used to collect AWS CloudTrail for all of these accounts. A security engineer wants to create a solution that will enable the company to run ad hoc queries against its CloudTrail logs dating back 3 years from when the trails were first enabled in the company's AWS account.

How should the company accomplish this with the least amount of administrative overhead?

- A. Run an Amazon EMP cluster that uses a MapReduce job to be examine the CloudTrail trails.
- B. Use the events history/feature of the CloudTrail console to query the CloudTrail trails.
- C. Write an AWS Lambda function to query the CloudTrail trails. Configure the Lambda function to be executed whenever a new file is created in the CloudTrail S3 bucket.
- D. Create an Amazon Athena table that tools at the S3 bucket the CloudTrail trails are being written to. Use Athena to run queries against the trails.

Answer: D

NEW QUESTION 5

- (Exam Topic 1)

A company uses a third-party identity provider and SAML-based SSO for its AWS accounts. After the third-party identity provider renewed an expired signing certificate, users saw the following message when trying to log in:

```
Error: Response Signature Invalid (Service: AWSSecurityTokenService; Status Code: 400; Error Code: InvalidIdentityToken)
```

A security engineer needs to provide a solution that corrects the error and minimizes operational overhead. Which solution meets these requirements?

- A. Upload the third-party signing certificate's new private key to the AWS identity provider entity defined in AWS Identity and Access Management (IAM) by using the AWS Management Console.
- B. Sign the identity provider's metadata file with the new public key. Upload the signature to the AWS identity provider entity defined in AWS Identity and Access Management (IAM) by using the AWS CLI.
- C. Download the updated SAML metadata file from the identity service provider. Update the file in the AWS identity provider entity defined in AWS Identity and Access Management (IAM) by using the AWS CLI.
- D. Configure the AWS identity provider entity defined in AWS Identity and Access Management (IAM) to synchronously fetch the new public key by using the AWS Management Console.

Answer: C

NEW QUESTION 6

- (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 AWS 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 7

- (Exam Topic 1)

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

How should the security engineer do this?

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

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

Answer: A

NEW QUESTION 8

- (Exam Topic 1)

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

How can this task be accomplished?

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

Answer: A

NEW QUESTION 9

- (Exam Topic 1)

A global company that deals with international finance is investing heavily in cryptocurrencies and wants to experiment with mining technologies using AWS. The company's security team has enabled Amazon

GuardDuty and is concerned by the number of findings being generated by the accounts. The security team wants to minimize the possibility of GuardDuty finding false negatives for compromised instances that are performing mining.

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

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

Answer: A

NEW QUESTION 10

- (Exam Topic 1)

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

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

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

Answer: D

NEW QUESTION 10

- (Exam Topic 1)

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

What could be causing these terminations?

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

Answer: C

NEW QUESTION 12

- (Exam Topic 1)

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

Which solution would meet these requirements?

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

Answer: A

NEW QUESTION 17

- (Exam Topic 1)

A company's on-premises data center forwards DNS logs to a third-party security incident events management (SIEM) solution that alerts on suspicious behavior. The company wants to introduce a similar capability to its AWS accounts that includes automatic remediation. The company expects to double in size within the next few months.

Which solution meets the company's current and future logging requirements?

- A. Enable Amazon GuardDuty and AWS Security Hub in all Regions and all accounts.
- B. Designate a master security account to receive all alerts from the child account.
- C. Set up specific rules within Amazon EventBridge to trigger an AWS Lambda function for remediation steps.
- D. Ingest all AWS CloudTrail logs, VPC Flow Logs, and DNS logs into a single Amazon S3 bucket in a designated security account.
- E. Use the current on-premises SIEM to monitor the logs and send a notification to an Amazon SNS topic to alert the security team of remediation steps.
- F. Ingest all AWS CloudTrail logs, VPC Flow Logs, and DNS logs into a single Amazon S3 bucket in a designated security account.
- G. Launch an Amazon EC2 instance and install the current SIEM to monitor the logs and send a notification to an Amazon SNS topic to alert the security team of remediation steps.
- H. Enable Amazon GuardDuty and AWS Security Hub in all Regions and all accounts.
- I. Designate a master security account to receive all alerts from the child account.
- J. Create an AWS Organizations SCP that denies access to certain API calls that are on an ignore list.

Answer: A

NEW QUESTION 22

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

Answer: B

NEW QUESTION 27

- (Exam Topic 1)

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

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

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

Answer: C

NEW QUESTION 32

- (Exam Topic 1)

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

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

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

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

Answer: D

NEW QUESTION 37

- (Exam Topic 1)

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

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

Answer: ACD

NEW QUESTION 41

- (Exam Topic 1)

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

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

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

Answer: B

NEW QUESTION 42

- (Exam Topic 1)

Unapproved changes were previously made to a company's Amazon S3 bucket. A security engineer configured AWS Config to record configuration changes made

to the company's S3 buckets. The engineer discovers there are S3 configuration changes being made, but no Amazon SNS notifications are being sent. The engineer has already checked the configuration of the SNS topic and has confirmed the configuration is valid. Which combination of steps should the security engineer take to resolve the issue? (Select TWO.)

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

Answer: BE

NEW QUESTION 45

- (Exam Topic 1)

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

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

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

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

Answer: B

NEW QUESTION 49

- (Exam Topic 1)

A company's architecture requires that its three Amazon EC2 instances run behind an Application Load Balancer (ALB). The EC2 instances transmit sensitive data between each other. Developers use SSL certificates to encrypt the traffic between the public users and the ALB. However, the Developers are unsure of how to encrypt the data in transit between the ALB and the EC2 instances and the traffic between the EC2 instances. Which combination of activities must the company implement to meet its encryption requirements? (Select TWO.)

- A. Configure SSL/TLS on the EC2 instances and configure the ALB target group to use HTTPS
- B. Ensure that all resources are in the same VPC so the default encryption provided by the VPC is used to encrypt the traffic between the EC2 instances.
- C. In the ALB
- D. select the default encryption to encrypt the traffic between the ALB and the EC2 instances
- E. In the code for the application, include a cryptography library and encrypt the data before sending it between the EC2 instances
- F. Configure AWS Direct Connect to provide an encrypted tunnel between the EC2 instances

Answer: BC

NEW QUESTION 54

- (Exam Topic 1)

A company is collecting AWS CloudTrail log data from multiple AWS accounts by managing individual trails in each account and forwarding log data to a centralized Amazon S3 bucket residing in a log archive account. After CloudTrail introduced support for AWS Organizations trails, the company decided to further centralize management and automate deployment of the CloudTrail logging capability across all of its AWS accounts.

The company's security engineer created an AWS Organizations trail in the master account, enabled server-side encryption with AWS KMS managed keys (SSE-KMS) for the log files, and specified the same bucket as the storage location. However, the engineer noticed that logs recorded by the new trail were not delivered to the bucket.

Which factors could cause this issue? (Select TWO.)

- A. The CMK key policy does not allow CloudTrail to make encrypt and decrypt API calls against the key.
- B. The CMK key policy does not allow CloudTrail to make `GenerateDataKey` API calls against the key.

- C. The IAM role used by the CloudTrail trail does not have permissions to make PutObject API calls against a folder created for the Organizations trail.
- D. The S3 bucket policy does not allow CloudTrail to make PutObject API calls against a folder created for the Organizations trail.
- E. The CMK key policy does not allow the IAM role used by the CloudTrail trail to use the key for crypto graphical operations.

Answer: AD

NEW QUESTION 59

- (Exam Topic 1)

A company's development team is designing an application using AWS Lambda and Amazon Elastic Container Service (Amazon ECS). The development team needs to create IAM roles to support these systems. The company's security team wants to allow the developers to build IAM roles directly, but the security team wants to retain control over the permissions the developers can delegate to those roles. The development team needs access to more permissions than those required for the application's AWS services. The solution must minimize management overhead.

How should the security team prevent privilege escalation for both teams?

- A. Enable AWS CloudTrail
- B. Create a Lambda function that monitors the event history for privilege escalation events and notifies the security team.
- C. Create a managed IAM policy for the permissions require
- D. Reference the IAM policy as a permissions boundary within the development team's IAM role.
- E. Enable AWS Organizations Create an SCP that allows the IAM CreateUser action but that has a condition that prevents API calls other than those required by the development team
- F. Create an IAM policy with a deny on the IAMCreateUser action and assign the policy to the development tea
- G. Use a ticket system to allow the developers to request new IAM roles for their application
- H. The IAM roles will then be created by the security team.

Answer: A

NEW QUESTION 60

- (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 AWS account was compromised and Amazon EBS snapshots were deleted.

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

Answer: A

NEW QUESTION 61

- (Exam Topic 1)

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

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

Answer: C

NEW QUESTION 65

- (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:

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

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

Answer: AD

NEW QUESTION 67

- (Exam Topic 1)

A company uses multiple AWS accounts managed with AWS 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 inconsistency 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 AWS 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 AWS 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 AWS Firewall Manager to create a security group policy, enable the policy feature to identify and revert local changes, and enable automatic remediation.
- D. Use AWS Control Tower to edit the account factory template to enable the shared 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 71

- (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 AWS 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 73

- (Exam Topic 1)

A company has multiple AWS accounts that are part of AWS Organizations. The company's Security team wants to ensure that even those Administrators with full access to the company's AWS 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 76

- (Exam Topic 1)

A company has a serverless application for internal users deployed on AWS. The application uses AWS Lambda for the front end and for business logic. The Lambda function accesses an Amazon RDS database inside a VPC. The company uses AWS 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 Manager.
- E. Store the credentials as a string parameter.
- 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 Manager.
- I. Store the credentials as a SecureString parameter.

Answer: ABE

NEW QUESTION 77

- (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 AWS WAF to block requests with a string match condition for the user agent of the IoT device.
- B. Associate the web ACL with the ALB.
- C. Configure an Amazon CloudFront distribution to use the ALB as an origin.
- D. Configure a web ACL rule for AWS 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 AWS 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 AWS Shield Advanced to enable DDoS protectio
- J. Apply an AWS 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 80

- (Exam Topic 1)

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

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

- A. Use AWS 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 AWS 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 AWS 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 81

- (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 83

- (Exam Topic 1)

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

- A. Use AWS Organizations to limit AWS Config rules to the appropriate Regions, and then consolidate the Amazon CloudWatch dashboard into one AWS account.
- B. Use AWS Config aggregation to consolidate the views into one AWS account, and provide role access to the security team.
- C. Consolidate AWS Config rule results with an AWS 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 AWS Config rules compliance status, aggregate GuardDuty findings of all AWS accounts into one AWS account, and provide role access to the security team.

Answer: B

NEW QUESTION 86

- (Exam Topic 2)

You have a web site that is sitting behind AWS 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. AWS Trusted Advisor
- B. AWS WAF
- C. AWS Inspector
- D. AWS Config

Answer: B

Explanation:

The AWS Documentation mentions the following

AWS WAF is a web application firewall that helps detect and block malicious web requests targeted at your web applications. AWS WAF allows you to create rules that can help protect against common web exploits like SQL injection and cross-site scripting. With AWS 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 AWS 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 AWS WAF, please visit the following URL: <https://aws.amazon.com/waf/details>;

The correct answer is: AWS WAF

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NEW QUESTION 88

- (Exam Topic 2)

A company will store sensitive documents in three Amazon S3 buckets based on a data classification scheme of "Sensitive," "Confidential," and "Restricted."

The security solution must meet all of the following requirements:

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

Which of the following meets these requirements?

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

Answer: A

Explanation:

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

NEW QUESTION 90

- (Exam Topic 2)

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

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

What should the Security Engineer do to meet these requirements?

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

Answer: D

NEW QUESTION 91

- (Exam Topic 2)

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

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

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

Answer: ACE

Explanation:

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

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

NEW QUESTION 92

- (Exam Topic 2)

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

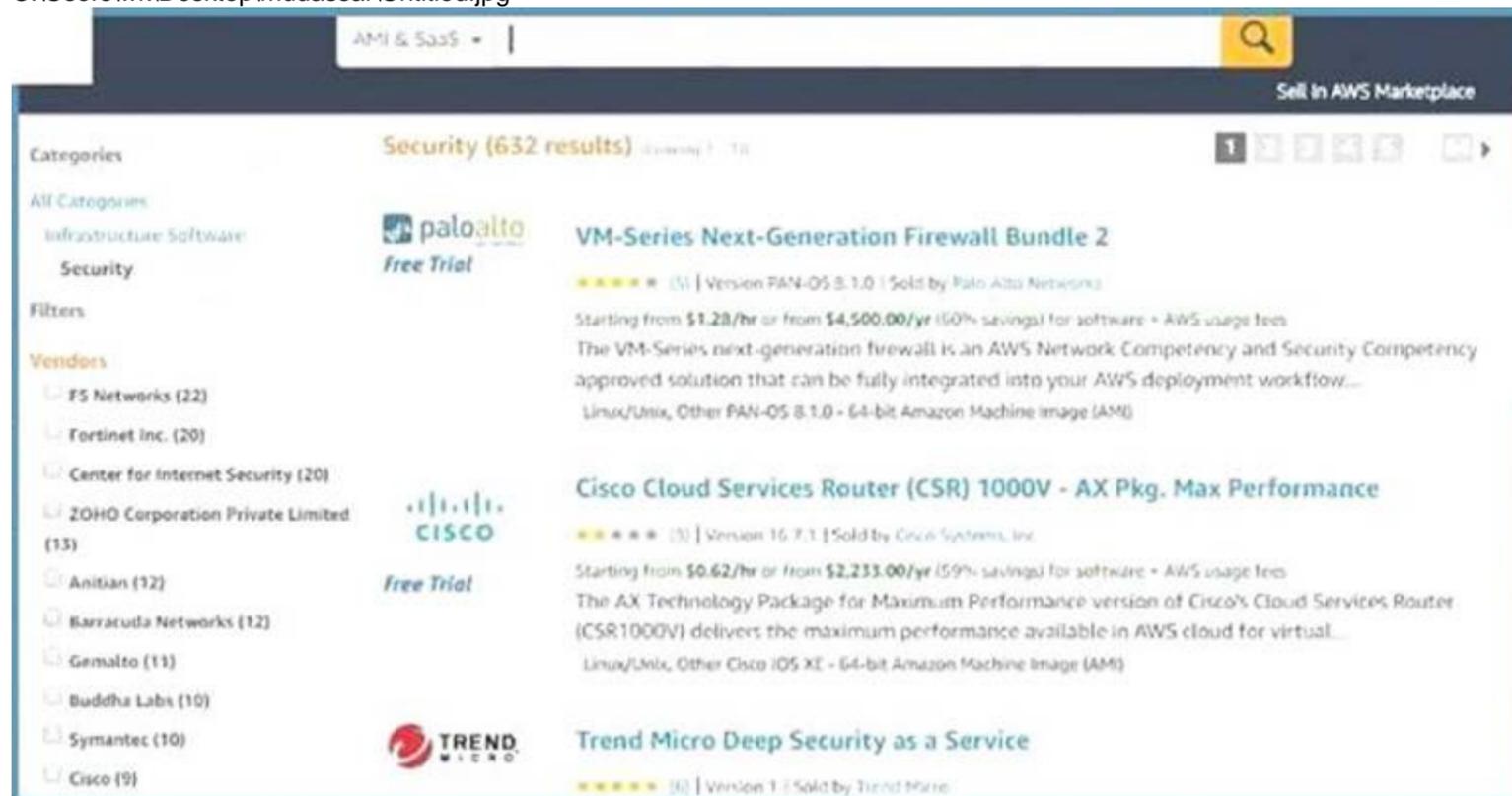
Please select:

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

Answer: B**Explanation:**

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

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



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

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

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

NEW QUESTION 95

- (Exam Topic 2)

A Security Engineer is trying to determine whether the encryption keys used in an AWS service are in compliance with certain regulatory standards. Which of the following actions should the Engineer perform to get further guidance?

- A. Read the AWS Customer Agreement.
- B. Use AWS Artifact to access AWS compliance reports.
- C. Post the question on the AWS Discussion Forums.
- D. Run AWS Config and evaluate the configuration outputs.

Answer: A**Explanation:**<https://aws.amazon.com/artifact/>**NEW QUESTION 96**

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

Answer: ADF**Explanation:**https://github.com/awslabs/aws-well-architected-labs/blob/master/Security/300_Incident_Response_with_AWS

NEW QUESTION 97

- (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 AWS 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 AWS Support to recover the S3 encrypted data.
- D. Make a request to AWS Support to restore the deleted CMK, and use it to recover the data.

Answer: C

NEW QUESTION 98

- (Exam Topic 2)

While analyzing a company's security solution, a Security Engineer wants to secure the AWS account root user. What should the Security Engineer do to provide the highest level of security for the account?

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

Answer: D

Explanation:

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

NEW QUESTION 101

- (Exam Topic 2)

The AWS Systems Manager Parameter Store is being used to store database passwords used by an AWS Lambda function. Because this is sensitive data, the parameters are stored as type SecureString and protected by an AWS KMS key that allows access through IAM. When the function executes, this parameter cannot be retrieved as the result of an access denied error.

Which of the following actions will resolve the access denied error?

- A. Update the ssm.amazonaws.com principal in the KMS key policy to allow kms: Decrypt.
- B. Update the Lambda configuration to launch the function in a VPC.
- C. Add a policy to the role that the Lambda function uses, allowing kms: Decrypt for the KMS key.
- D. Add lambda.amazonaws.com as a trusted entity on the IAM role that the Lambda function uses.

Answer: C

Explanation:

https://docs.amazonaws.cn/en_us/AmazonRDS/latest/AuroraUserGuide/AuroraMySQL.Integrating.Authorizing

NEW QUESTION 104

- (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 106

- (Exam Topic 2)

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

What steps should the team document in the plan? Please select:

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

Answer: A

Explanation:

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

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



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

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

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

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

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NEW QUESTION 109

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

NEW QUESTION 113

- (Exam Topic 2)

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

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

Answer: D

Explanation:

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

<https://docs.aws.amazon.com/sdkfornet/latest/apidocs/items/MKeyManagementServiceKeyManagementService>

NEW QUESTION 115

- (Exam Topic 2)

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

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

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

Answer: B

Explanation:

<https://docs.aws.amazon.com/AmazonCloudFront/latest/DeveloperGuide/private-content-restricting-access-to-s3>

NEW QUESTION 119

- (Exam Topic 2)

Your company has a set of resources defined in the AWS 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 AWS CL
- B. Query for all resources with the tag of production.
- C. Create a bash shell script with the AWS 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 AWS Config to get the list of all resources

Answer: D**Explanation:**

The most feasible option is to use AWS Config. When you turn on AWS Config, you will get a list of resources defined in your AWS Account. A sample snapshot of the resources dashboard in AWS 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 AWS Config, please visit the below URL: <https://docs.aws.amazon.com/config/latest/developereuide/how-does-confie-work.html>

The correct answer is: Use AWS Config to get the list of all resources Submit your Feedback/Queries to our Experts

NEW QUESTION 120

- (Exam Topic 2)

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

What is the SIMPLEST way to meet these requirements?

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

Answer: C**NEW QUESTION 121**

- (Exam Topic 2)

Your company has a requirement to monitor all root user activity by notification. How can this best be achieved? Choose 2 answers from the options given below. Each answer forms part of the solution

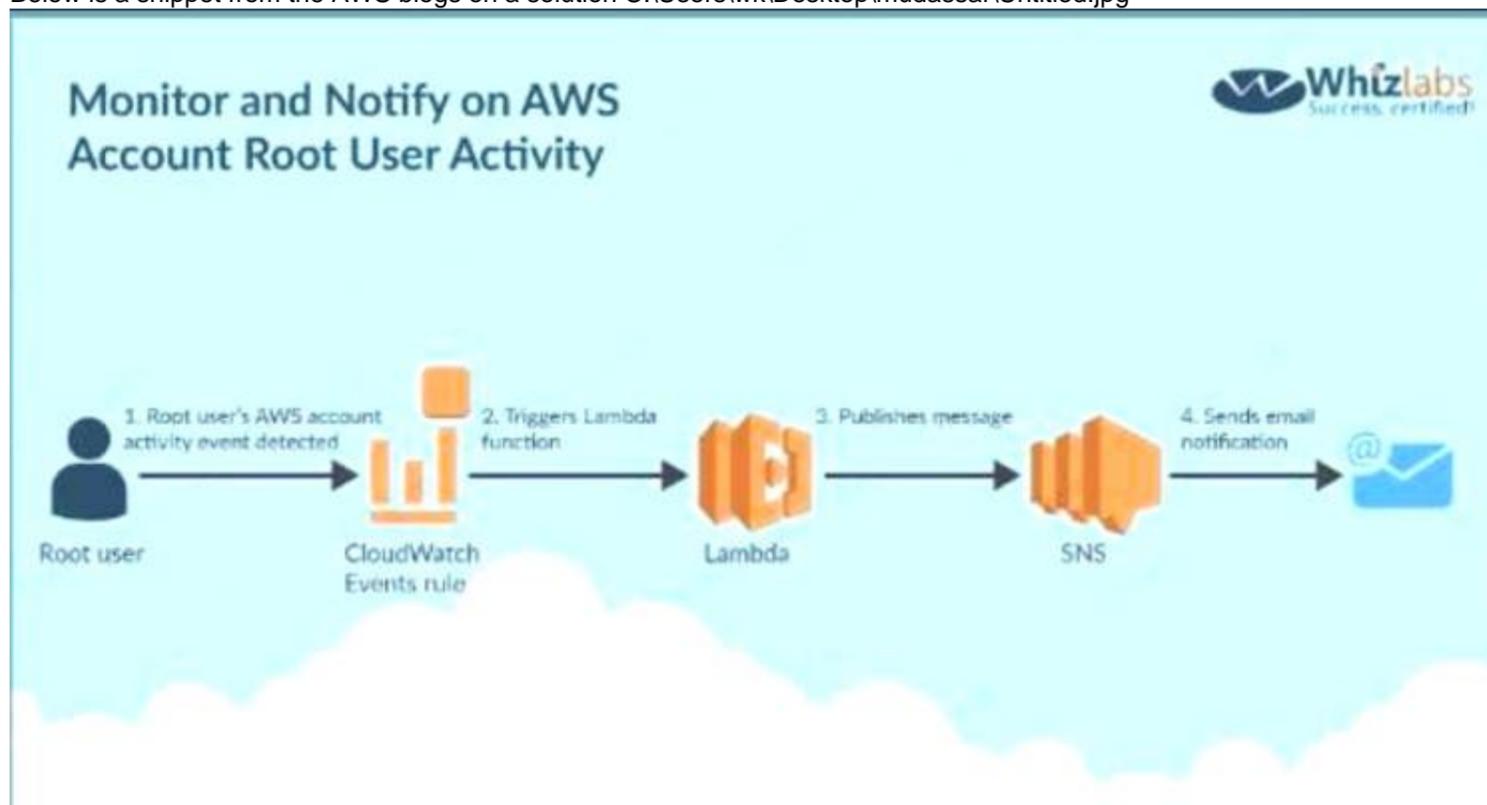
Please select:

- A. Create a Cloudwatch Events Rule s
- B. Create a Cloudwatch Logs Rule
- C. Use a Lambda function
- D. Use Cloudtrail API call

Answer: AC

Explanation:

Below is a snippet from the AWS blogs on a solution C:\Users\wk\Desktop\mudassar\Untitled.jpg



Option B is invalid because you need to create a Cloudwatch Events Rule and there is such thing as a Cloudwatch Logs Rule Option D is invalid because Cloud Trail API calls can be recorded but cannot be used to send across notifications For more information on this blog article, please visit the following URL: <https://aws.amazon.com/blogs/mt/monitor-and-notify-on-aws-account-root-user-activity> The correct answers are: Create a Cloudwatch Events Rule, Use a Lambda function Submit your Feedback/Queries to our Experts

NEW QUESTION 124

- (Exam Topic 2)

When you enable automatic key rotation for an existing CMK key where the backing key is managed by AWS, after how long is the key rotated?

Please select:

- A. After 30 days
- B. After 128 days
- C. After 365 days
- D. After 3 years

Answer: D

Explanation:

The AWS Documentation states the following

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

Note: AWS-managed CMKs are rotated every 3yrs, Customer-Managed CMKs are rotated every 365-days from when rotation is enabled.

Option A, B, C are invalid because the dettings for automatic key rotation is not changeable. For more information on key rotation please visit the below URL

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

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

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

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

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

The AWS services that integrate with AWS KMS can use it in many different ways. Some services create AWS managed CMKs in your account. Other services require that you specify a customer managed CMK that you have created. And, others support both types of CMKs to allow you the ease of an AWS managed CMK or the control of a customer-managed CMK

Rotation period for CMKs is as follows:

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

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

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

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NEW QUESTION 125

- (Exam Topic 2)

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

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

- A. Create a custom authorization service using AWS Lambda.
- B. Configure a SAML identity provider in Amazon Cognito to map attributes to the Amazon Cognito user pool attributes.
- C. Configure the SAML identity provider to add the Amazon Cognito user pool as a relying party.
- D. Configure an Amazon Cognito identity pool to integrate with social login providers.

- E. Update DynamoDB to store the user email addresses and passwords.
- F. Update API Gateway to use a COGNITO_USER_POOLS authorizer.

Answer: BDE

NEW QUESTION 129

- (Exam Topic 2)

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

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

Answer: B

Explanation:

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

NEW QUESTION 130

- (Exam Topic 2)

An application has been written that publishes custom metrics to Amazon CloudWatch. Recently, IAM changes have been made on the account and the metrics are no longer being reported. Which of the following is the LEAST permissive solution that will allow the metrics to be delivered?

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

Answer: C

Explanation:

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

NEW QUESTION 133

- (Exam Topic 2)

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

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

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

Answer: D

NEW QUESTION 134

- (Exam Topic 2)

During a security event, it is discovered that some Amazon EC2 instances have not been sending Amazon CloudWatch logs. Which steps can the Security Engineer take to troubleshoot this issue? (Select two.)

- A. Connect to the EC2 instances that are not sending the appropriate logs and verify that the CloudWatch Logs agent is running.
- B. Log in to the AWS account and select CloudWatch Log
- C. Check for any monitored EC2 instances that are in the "Alerting" state and restart them using the EC2 console.
- D. Verify that the EC2 instances have a route to the public AWS API endpoints.
- E. Connect to the EC2 instances that are not sending log
- F. Use the command prompt to verify that the right permissions have been set for the Amazon SNS topic.
- G. Verify that the network access control lists and security groups of the EC2 instances have the access to send logs over SNMP.

Answer: AB

Explanation:

<https://docs.aws.amazon.com/AmazonCloudWatch/latest/monitoring/cloudwatch-and-interface-VPC.html>

NEW QUESTION 139

- (Exam Topic 2)

An application uses Amazon Cognito to manage end users' permissions when directly accessing AWS resources, including Amazon DynamoDB. A new feature request reads as follows:

Provide a mechanism to mark customers as suspended pending investigation or suspended permanently. Customers should still be able to log in when suspended, but should not be able to make changes.

The priorities are to reduce complexity and avoid potential for future security issues. Which approach will meet these requirements and priorities?

- A. Create a new database field "suspended_status" and modify the application logic to validate that field when processing requests.

- B. Add suspended customers to second Cognito user pool and update the application login flow to check both user pools.
- C. Use Amazon Cognito Sync to push out a "suspension_status" parameter and split the IAM policy into normal users and suspended users.
- D. Move suspended customers to a second Cognito group and define an appropriate IAM access policy for the group.

Answer: D

Explanation:

<https://aws.amazon.com/blogs/aws/new-amazon-cognito-groups-and-fine-grained-role-based-access-control-2/>

NEW QUESTION 143

- (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 147

- (Exam Topic 2)

A Security Engineer has created an Amazon CloudWatch event that invokes an AWS Lambda function daily. The Lambda function runs an Amazon Athena query that checks AWS CloudTrail logs in Amazon S3 to detect whether any IAM user accounts or credentials have been created in the past 30 days. The results of the Athena query are created in the same S3 bucket. The Engineer runs a test execution of the Lambda function via the AWS Console, and the function runs successfully.

After several minutes, the Engineer finds that his Athena query has failed with the error message: "Insufficient Permissions". The IAM permissions of the Security Engineer and the Lambda function are shown below:

Security Engineer

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": [
        "s3:*",
        "iam:*",
        "lambda:*",
        "athena:Get*",
        "athena:List*",
        "cloudwatch:*"
      ],
      "Resource": "*"
    }
  ]
}
```

Lambda function execution role

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": [
        "athena:*",
        "cloudwatch:*"
      ],
      "Resource": "*"
    }
  ]
}
```

What is causing the error?

- A. The Lambda function does not have permissions to start the Athena query execution.
- B. The Security Engineer does not have permissions to start the Athena query execution.
- C. The Athena service does not support invocation through Lambda.
- D. The Lambda function does not have permissions to access the CloudTrail S3 bucket.

Answer: D

NEW QUESTION 151

- (Exam Topic 2)

A company maintains sensitive data in an Amazon S3 bucket that must be protected using an AWS 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 AWS-managed CMK.
- B. Select Amazon S3-AWS 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 AWS KMS-managed keys (SSE-KMS) and select an alias to an AWS-managed CMK.

Answer: B

NEW QUESTION 155

- (Exam Topic 3)

An employee keeps terminating EC2 instances on the production environment. You've determined the best way to ensure this doesn't happen is to add an extra layer of defense against terminating the instances. What is the best method to ensure the employee does not terminate the production instances? Choose the 2 correct answers from the options below

Please select:

- A. Tag the instance with a production-identifying tag and add resource-level permissions to the employee user with an explicit deny on the terminate API call to instances with the production tag
- B. <
- C. Tag the instance with a production-identifying tag and modify the employees group to allow only start stop, and reboot API calls and not the terminate instance call.
- D. Modify the IAM policy on the user to require MFA before deleting EC2 instances and disable MFA access to the employee
- E. Modify the IAM policy on the user to require MFA before deleting EC2 instances

Answer: AB

Explanation:

Tags enable you to categorize your AWS resources in different ways, for example, by purpose, owner, or environment. This is useful when you have many resources of the same type — you can quickly identify a specific resource based on the tags you've assigned to it. Each tag consists of a key and an optional value, both of which you define

Options C&D are incorrect because it will not ensure that the employee cannot terminate the instance. For more information on tagging answer resources please refer to the below URL: http://docs.aws.amazon.com/AWSEC2/latest/UserGuide/Using_Tags.html

The correct answers are: Tag the instance with a production-identifying tag and add resource-level permissions to the employee user with an explicit deny on the terminate API call to instances with the production tag.. Tag the instance with a production-identifying tag and modify the employees group to allow only start stop, and reboot API calls and not the terminate instance

Submit your Feedback/Queries to our Experts

NEW QUESTION 158

- (Exam Topic 3)

A security engineer needs to create an AWS Key Management Service (AWS KMS) key that will be used to encrypt all data stored in a company's Amazon S3 Buckets in the us-west-1 Region. The key will use server-side encryption. Usage of the key must be limited to requests coming from Amazon S3 within the company's account.

Which statement in the KMS key policy will meet these requirements?

A)

```
{
  "Effect": "Allow",
  "Principal": {
    "AWS": "*"
  },
  "Action": [
    "kms:Encrypt",
    "kms:Decrypt",
    "kms:ReEncrypt*",
    "kms:GenerateDataKey*",
    "kms:DescribeKey"
  ],
  "Resource": "*",
  "Condition": {
    "StringEquals": {
      "kms:ViaService": "s3.us-west-1.amazonaws.com",
      "kms:CallerAccount": "<CustomerAccountID>"
    }
  }
}
```

B)

```
{
  "Effect": "Allow",
  "Principal": {
    "AWS": "s3.us-west-1.amazonaws.com"
  },
  "Action": [
    "kms:Encrypt",
    "kms:Decrypt",
    "kms:ReEncrypt*",
    "kms:GenerateDataKey*",
    "kms:DescribeKey"
  ],
  "Resource": "*",
  "Condition": {
    "StringEquals": {
      "kms:CallerAccount": "<CustomerAccountID>"
    }
  }
}
```

C)

```
{
  "Effect": "Allow",
  "Principal": {
    "AWS": "*"
  },
  "Action": [
    "kms:Encrypt",
    "kms:Decrypt",
    "kms:ReEncrypt*",
    "kms:GenerateDataKey*",
    "kms:DescribeKey"
  ],
  "Resource": "*",
  "Condition": {
    "StringEquals": {
      "kms:EncryptionContext:aws:s3:arn": [
        "arn:aws:s3:::*"
      ]
    }
  }
}
```

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

Answer: C**NEW QUESTION 161**

- (Exam Topic 3)

Your organization is preparing for a security assessment of your use of AWS. In preparation for this assessment, which three IAM best practices should you consider implementing?

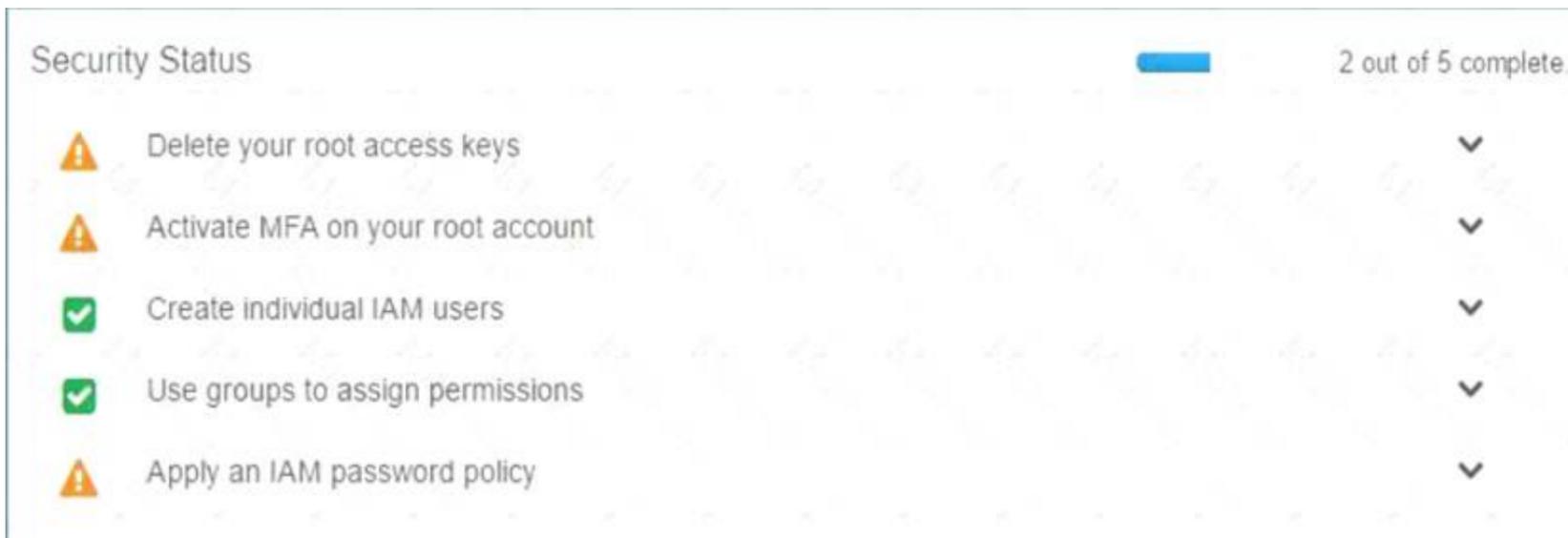
Please select:

- A. Create individual IAM users
- B. Configure MFA on the root account and for privileged IAM users
- C. Assign IAM users and groups configured with policies granting least privilege access
- D. Ensure all users have been assigned and are frequently rotating a password, access ID/secret key, and X.509 certificate

Answer: ABC**Explanation:**

When you go to the security dashboard, the security status will show the best practices for initiating the first level of security.

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



Option D is invalid because as per the dashboard, this is not part of the security recommendation. For more information on best security practices please visit the URL:

<https://aws.amazon.com/whitepapers/aws-security-best-practices;>

The correct answers are: Create individual IAM users, Configure MFA on the root account and for privileged IAM users. Assign IAM users and groups configured with policies granting least privilege access.

Submit your Feedback/Queries to our Experts

NEW QUESTION 163

- (Exam Topic 3)

You need to ensure that objects in an S3 bucket are available in another region. This is because of the criticality of the data that is hosted in the S3 bucket. How can you achieve this in the easiest way possible?

Please select:

- A. Enable cross region replication for the bucket
- B. Write a script to copy the objects to another bucket in the destination region
- C. Create an S3 snapshot in the destination region
- D. Enable versioning which will copy the objects to the destination region

Answer: A

Explanation:

Option B is partially correct but a big maintenance overhead to create and maintain a script when the functionality is already available in S3.

Option C is invalid because snapshots are not available in S3. Option D is invalid because versioning will not replicate objects. The AWS Documentation mentions the following:

Cross-region replication is a bucket-level configuration that enables automatic, asynchronous copying of objects across buckets in different AWS Regions.

For more information on Cross region replication in the Simple Storage Service, please visit the below URL:

<https://docs.aws.amazon.com/AmazonS3/latest/dev/crr.html>

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

NEW QUESTION 164

- (Exam Topic 3)

A company uses Amazon RDS for MySQL as a database engine for its applications. A recent security audit revealed an RDS instance that is not compliant with company policy for encrypting data at rest. A security engineer at the company needs to ensure that all existing RDS databases are encrypted using server-side encryption and that any future deviations from the policy are detected.

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

- A. Create an AWS Config rule to detect the creation of unencrypted RDS database
- B. Create an Amazon EventBridge (Amazon CloudWatch Events) rule to trigger on the AWS Config rules compliance state change and use Amazon Simple Notification Service (Amazon SNS) to notify the security operations team.
- C. Use AWS System Manager State Manager to detect RDS database encryption configuration drift
- D. Create an Amazon EventBridge (Amazon CloudWatch Events) rule to track state changes and use Amazon Simple Notification Service (Amazon SNS) to notify the security operations team.
- E. Create a read replica for the existing unencrypted RDS database and enable replica encryption in the process
- F. Once the replica becomes active, promote it into a standalone database instance and terminate the unencrypted database instance.
- G. Take a snapshot of the unencrypted RDS database
- H. Copy the snapshot and enable snapshot encryption in the process
- I. Restore the database instance from the newly created encrypted snapshot
- J. Terminate the unencrypted database instance.
- K. Enable encryption for the identified unencrypted RDS instance by changing the configurations of the existing database

Answer: AD

NEW QUESTION 169

- (Exam Topic 3)

A company has a set of resources defined in AWS. It is mandated that all API calls to the resources be monitored. Also all API calls must be stored for lookup purposes. Any log data greater than 6 months must be archived. Which of the following meets these requirements? Choose 2 answers from the options given below. Each answer forms part of the solution.

Please select:

- A. Enable CloudTrail logging in all accounts into S3 buckets
- B. Enable CloudTrail logging in all accounts into Amazon Glacier
- C. Ensure a lifecycle policy is defined on the S3 bucket to move the data to EBS volumes after 6 months.

D. Ensure a lifecycle policy is defined on the S3 bucket to move the data to Amazon Glacier after 6 months.

Answer: AD

Explanation:

Cloudtrail publishes the trail of API logs to an S3 bucket

Option B is invalid because you cannot put the logs into Glacier from CloudTrail

Option C is invalid because lifecycle policies cannot be used to move data to EBS volumes For more information on Cloudtrail logging, please visit the below URL:

<https://docs.aws.amazon.com/awsccloudtrail/latest/userguide/cloudtrail-find-log-files.html>

You can then use Lifecycle policies to transfer data to Amazon Glacier after 6 months For more information on S3 lifecycle policies, please visit the below URL:

<https://docs.aws.amazon.com/AmazonS3/latest/dev/object-lifecycle-mgmt.html>

The correct answers are: Enable CloudTrail logging in all accounts into S3 buckets. Ensure a lifecycle policy is defined on the bucket to move the data to Amazon Glacier after 6 months.

Submit your Feedback/Queries to our Experts

NEW QUESTION 171

- (Exam Topic 3)

An application running on EC2 instances in a VPC must access sensitive data in the data center. The access must be encrypted in transit and have consistent low latency. Which hybrid architecture will meet these requirements?

Please select:

- A. Expose the data with a public HTTPS endpoint.
- B. A VPN between the VPC and the data center over a Direct Connect connection
- C. A VPN between the VPC and the data center.
- D. A Direct Connect connection between the VPC and data center

Answer: B

Explanation:

Since this is required over a consistency low latency connection, you should use Direct Connect. For encryption, you can make use of a VPN

Option A is invalid because exposing an HTTPS endpoint will not help all traffic to flow between a VPC and the data center.

Option C is invalid because low latency is a key requirement Option D is invalid because only Direct Connect will not suffice

For more information on the connection options please see the below Link: <https://aws.amazon.com/answers/networking/aws-multiple-vpc-vpn-connection-sharint>

The correct answer is: A VPN between the VPC and the data center over a Direct Connect connection Submit your Feedback/Queries to our Experts

NEW QUESTION 172

- (Exam Topic 3)

A company wants to ensure that its AWS resources can be launched only in the us-east-1 and us-west-2 Regions.

What is the MOST operationally efficient solution that will prevent developers from launching Amazon EC2 instances in other Regions?

- A. Enable Amazon GuardDuty in all Region
- B. Create alerts to detect unauthorized activity outside us-east-1 and us-west-2.
- C. Use an organization in AWS Organization
- D. Attach an SCP that allows all actions when the aws: Requested Region condition key is either us-east-1 or us-west-2. Delete the FullAWSAccess policy.
- E. Provision EC2 resources by using AWS Cloud Formation templates through AWS CodePipelin
- F. Allow only the values of us-east-1 and us-west-2 in the AWS CloudFormation template's parameters.
- G. Create an AWS Config rule to prevent unauthorized activity outside us-east-1 and us-west-2.

Answer: C

NEW QUESTION 177

- (Exam Topic 3)

Your company has been using AWS for hosting EC2 Instances for their web and database applications. They want to have a compliance check to see the following

Whether any ports are left open other than admin ones like SSH and RDP

Whether any ports to the database server other than ones from the web server security group are open Which of the following can help achieve this in the easiest way possible. You don't want to carry out an extra configuration changes?

Please select:

- A. AWS Config
- B. AWS Trusted Advisor
- C. AWS Inspector D.AWSGuardDuty

Answer: B

Explanation:

Trusted Advisor checks for compliance with the following security recommendations:

Limited access to common administrative ports to only a small subset of addresses. This includes ports 22 (SSH), 23 (Telnet) 3389 (RDP), and 5500 (VNC).

Limited access to common database ports. This includes ports 1433 (MSSQL Server), 1434 (MSSQL Monitor), 3306 (MySQL), Oracle (1521) and 5432 (PostgreSQL).

Option A is partially correct but then you would need to write custom rules for this. The AWS trusted advisor can give you all o these checks on its dashboard

Option C is incorrect. Amazon Inspector needs a software agent to be installed on all EC2 instances that are included in th.

assessment target, the security of which you want to evaluate with Amazon Inspector. It monitors the behavior of the EC2 instance on which it is installed, including network, file system, and process activity, and collects a wide set of behavior and configuration data (telemetry), which it then passes to the Amazon Inspector service.

Our question's requirement is to choose a choice that is easy to implement. Hence Trusted Advisor is more appropriate for this question.

Options D is invalid because this service dont provide these details.

For more information on the Trusted Advisor, please visit the following URL <https://aws.amazon.com/premiumsupport/trustedadvisor>

The correct answer is: AWS Trusted Advisor Submit your Feedback/Queries to our Experts

NEW QUESTION 182

- (Exam Topic 3)

Which of the below services can be integrated with the AWS Web application firewall service. Choose 2 answers from the options given below
 Please select:

- A. AWS Cloudfront
- B. AWS Lambda
- C. AWS Application Load Balancer
- D. AWS Classic Load Balancer

Answer: AC

Explanation:

The AWS documentation mentions the following on the Application Load Balancer

AWS WAF can be deployed on Amazon CloudFront and the Application Load Balancer (ALB). As part of Amazon CloudFront it can be part of your Content Distribution Network (CDN) protecting your resources and content at the Edge locations and as part of the Application Load Balancer it can protect your origin web servers running behind the ALBs.

Options B and D are invalid because only Cloudfront and the Application Load Balancer services are supported by AWS WAF.

For more information on the web application firewall please refer to the below URL: <https://aws.amazon.com/waf/faq>;

The correct answers are: AWS Cloudfront AWS Application Load Balancer Submit your Feedback/Queries to our Experts

NEW QUESTION 187

- (Exam Topic 3)

A security engineer needs to create an Amazon S3 bucket policy to grant least privilege read access to IAM user accounts that are named User1, User2, and User3. These IAM user accounts are members of the AuthorizedPeople IAM group. The security engineer drafts the following S3 bucket policy:

```
{
  "Version": "2012-10-17",
  "Id": "AuthorizedPeoplePolicy",
  "Statement": [
    {
      "Sid": "Actions-Authorized-People",
      "Effect": "Allow",
      "Action": [
        "s3:GetObject"
      ],
      "Resource": "arn:aws:s3:::authorized-people-bucket/*"
    }
  ]
}
```

When the security engineer tries to add the policy to the S3 bucket, the following error message appears: "Missing required field Principal." The security engineer is adding a Principal element to the policy. The addition must provide read access to only User1, User2, and User3. Which solution meets these requirements?

A)

```
"Principal": {
  "AWS": [
    "arn:aws:iam::1234567890:user/User1",
    "arn:aws:iam::1234567890:user/User2",
    "arn:aws:iam::1234567890:user/User3"
  ]
}
```

B)

```
"Principal": {
  "AWS": [
    "arn:aws:iam::1234567890:root"
  ]
}
```

C)

```
"Principal": {
  "AWS": [
    "*"
  ]
}
```

D)

```
"Principal": {
  "AWS": "arn:aws:iam::1234567890:group/AuthorizedPeople"
}
```

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

Answer: A

NEW QUESTION 190

- (Exam Topic 3)

Your company is planning on developing an application in AWS. This is a web based application. The application user will use their facebook or google identities for authentication. You want to have the ability to manage user profiles without having to add extra coding to manage this. Which of the below would assist in this. Please select:

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

Answer: C

Explanation:

The AWS Documentation mentions the following

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

User pools provide:

Sign-up and sign-in services.

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

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

User directory management and user profiles.

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

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

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

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

NEW QUESTION 193

- (Exam Topic 3)

You have a set of 100 EC2 Instances in an AWS account. You need to ensure that all of these instances are patched and kept to date. All of the instances are in a private subnet. How can you achieve this. Choose 2 answers from the options given below

Please select:

- A. Ensure a NAT gateway is present to download the updates
- B. Use the Systems Manager to patch the instances
- C. Ensure an internet gateway is present to download the updates
- D. Use the AWS inspector to patch the updates

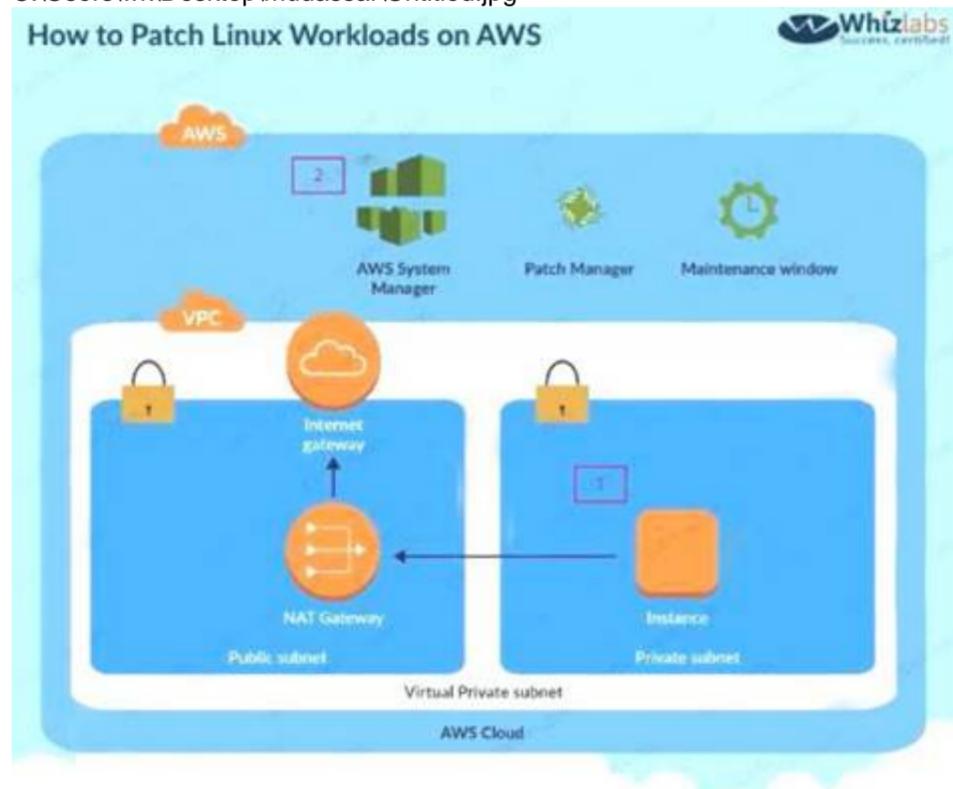
Answer: AB

Explanation:

Option C is invalid because the instances need to remain in the private: Option D is invalid because AWS inspector can only detect the patches

One of the AWS Blogs mentions how patching of Linux servers can be accomplished. Below is the diagram representation of the architecture setup

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



For more information on patching Linux workloads in AWS, please refer to the Lin. <https://aws.amazon.com/blogs/security/how-to-patch-linux-workloads-on-aws/>

The correct answers are: Ensure a NAT gateway is present to download the updates. Use the Systems Manager to patch the instances

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NEW QUESTION 194

- (Exam Topic 3)

A company's application team needs to host a MySQL database on AWS. According to the company's security policy, all data that is stored on AWS must be encrypted at rest. In addition, all cryptographic material must be compliant with FIPS 140-2 Level 3 validation.

The application team needs a solution that satisfies the company's security requirements and minimizes operational overhead.

Which solution will meet these requirements?

- A. Host the database on Amazon RD
- B. Use Amazon Elastic Block Store (Amazon EBS) for encryption. Use an AWS Key Management Service (AWS KMS) custom key store that is backed by AWS CloudHSM for key management.
- C. Host the database on Amazon RD
- D. Use Amazon Elastic Block Store (Amazon EBS) for encryption. Use an AWS managed CMK in AWS Key Management Service (AWS KMS) for key management.
- E. Host the database on an Amazon EC2 instanc
- F. Use Amazon Elastic Block Store (Amazon EBS) for encryptio
- G. Use a customer managed CMK in AWS Key Management Service (AWS KMS) for key management.
- H. Host the database on an Amazon EC2 instanc
- I. Use Transparent Data Encryption (TDE) for encryption and key management.

Answer: B

NEW QUESTION 195

- (Exam Topic 3)

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

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

Answer: B

Explanation:

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

NEW QUESTION 196

- (Exam Topic 3)

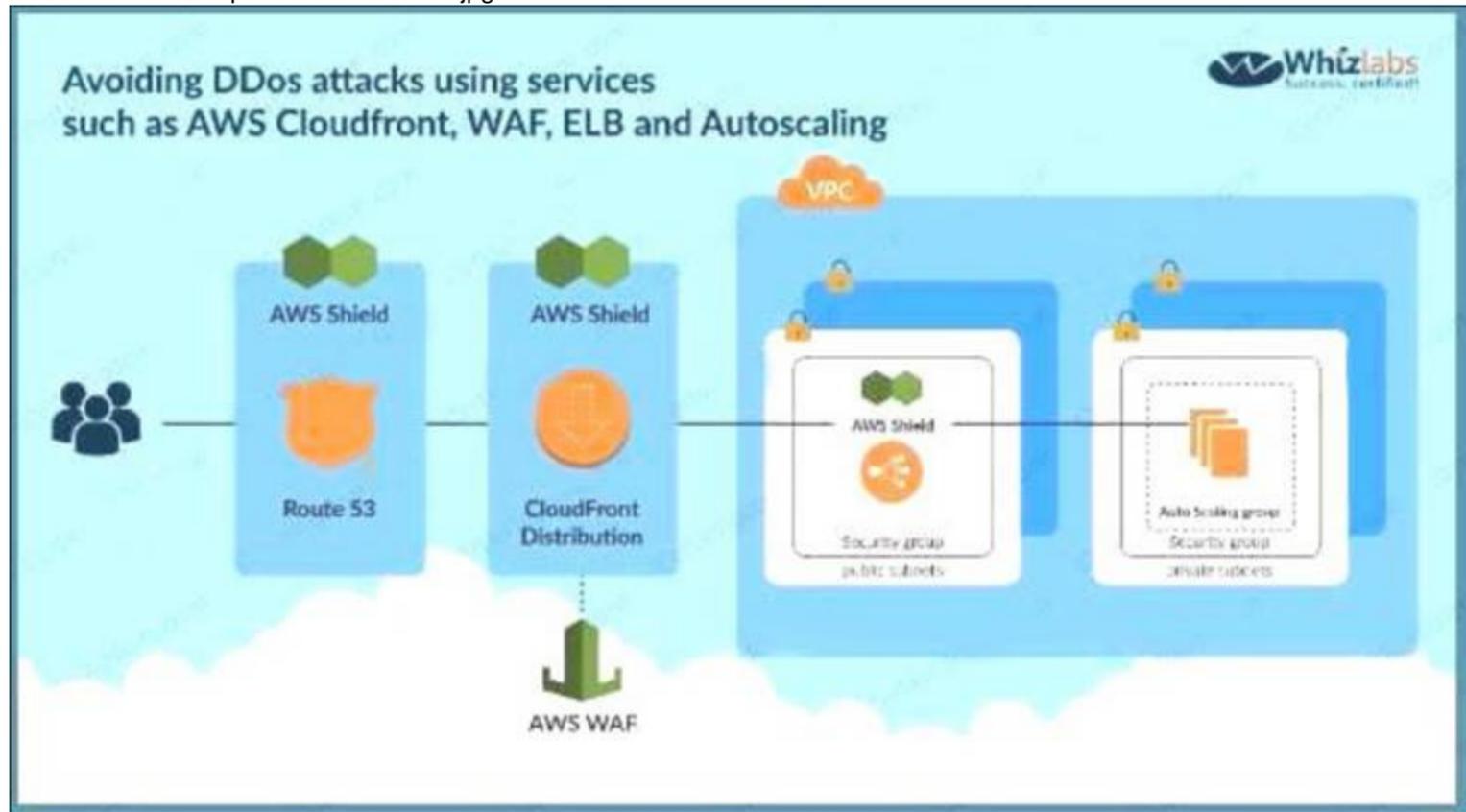
A company is deploying a new web application on AWS. Based on their other web applications, they anticipate being the target of frequent DDoS attacks. Which steps can the company use to protect their application? Select 2 answers from the options given below. Please select:

- A. Associate the EC2 instances with a security group that blocks traffic from blacklisted IP addresses.
- B. Use an ELB Application Load Balancer and Auto Scaling group to scale to absorb application layer traffic.
- C. Use Amazon Inspector on the EC2 instances to examine incoming traffic and discard malicious traffic.
- D. Use CloudFront and AWS WAF to prevent malicious traffic from reaching the application
- E. Enable GuardDuty to block malicious traffic from reaching the application

Answer: BD

Explanation:

The below diagram from AWS shows the best case scenario for avoiding DDoS attacks using services such as AWS Cloudfro WAF, ELB and Autoscaling



Option A is invalid because by default security groups don't allow access Option C is invalid because AWS Inspector cannot be used to examine traffic Option E is invalid because this can be used for attacks on EC2 Instances but not against DDoS attacks on the entire application For more information on DDoS mitigation from AWS, please visit the below URL:

<https://aws.amazon.com/answers/networking/aws-ddos-attack-mitiation/>

The correct answers are: Use an ELB Application Load Balancer and Auto Scaling group to scale to absorb application layer traffic., Use CloudFront and AWS

WAF to prevent malicious traffic from reaching the application
Submit your Feedback/Queries to our Experts

NEW QUESTION 198

- (Exam Topic 3)

Your company has confidential documents stored in the simple storage service. Due to compliance requirements, you have to ensure that the data in the S3 bucket is available in a different geographical location. As an architect what is the change you would make to comply with this requirement. Please select:

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

Answer: D

Explanation:

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

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

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

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

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

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

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

NEW QUESTION 200

- (Exam Topic 3)

A developer is building a serverless application hosted on AWS that uses Amazon Redshift in a data store. The application has separate modules for read/write and read-only functionality. The modules need their own database users for compliance reasons.

Which combination of steps should a security engineer implement to grant appropriate access? (Select TWO)

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

Answer: AE

NEW QUESTION 205

- (Exam Topic 3)

A website currently runs on Amazon EC2, with mostly static content on the site. Recently the site was subjected to a DDoS attack a security engineer was asked to redesign the edge security to help mitigate this risk in the future.

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

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

Answer: BDF

NEW QUESTION 210

- (Exam Topic 3)

A web application runs in a VPC on EC2 instances behind an ELB Application Load Balancer. The application stores data in an RDS MySQL DB instance. A Linux bastion host is used to apply schema updates to the database - administrators connect to the host via SSH from a corporate workstation. The following security groups are applied to the infrastructure

* sgLB - associated with the ELB

* sgWeb - associated with the EC2 instances.

* sgDB - associated with the database

* sgBastion - associated with the bastion host Which security group configuration will allow the application to be secure and functional?

Please select:

- A. sgLB :allow port 80 and 443 traffic from 0.0.0.0/0 sgWeb :allow port 80 and 443 traffic from 0.0.0.0/0 sgDB :allow port 3306 traffic from sgWeb and sgBastion sgBastion: allow port 22 traffic from the corporate IP address range
- B. sgLB :allow port 80 and 443 traffic from 0.0.0.0/0 sgWeb :allow port 80 and 443 traffic from sgLB sgDB :allow port 3306 traffic from sgWeb and sgLBsgBastion: allow port 22 traffic from the VPC IP address range
- C. sgLB :allow port 80 and 443 traffic from 0.0.0.0/0 sgWeb :allow port 80 and 443 traffic from sgLBsgDB :allow port 3306 traffic from sgWeb and sgBastion sgBastion: allow port 22 traffic from the VPC IP address range
- D. sgLB :allow port 80 and 443 traffic from 0.0.0.0/0 sgWeb :allow port 80 and 443 traffic from sgLBsgDB :allow port 3306 traffic from sgWeb and sgBastion sgBastion: allow port 22 traffic from the corporate IP address range

Answer: D

Explanation:

The Load Balancer should accept traffic on port 80 and 443 traffic from 0.0.0.0/0 The backend EC2 Instances should accept traffic from the Load Balancer
The database should allow traffic from the Web server
And the Bastion host should only allow traffic from a specific corporate IP address range Option A is incorrect because the Web group should only allow traffic from the Load balancer For more information on AWS Security Groups, please refer to below URL: <https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/usins-network-security.html>
The correct answer is: sgLB :allow port 80 and 443 traffic from 0.0.0.0/0 sgWeb :allow port 80 and 443 traffic from sgLB
sgDB :allow port 3306 traffic from sgWeb and sgBastion
sgBastion: allow port 22 traffic from the corporate IP address range Submit your Feedback/Queries to our Experts

NEW QUESTION 213

- (Exam Topic 3)

You have setup a set of applications across 2 VPC's. You have also setup VPC Peering. The applications are still not able to communicate across the Peering connection. Which network troubleshooting steps should be taken to resolve the issue?

Please select:

- A. Ensure the applications are hosted in a public subnet
- B. Check to see if the VPC has an Internet gateway attached.
- C. Check to see if the VPC has a NAT gateway attached.
- D. Check the Route tables for the VPC's

Answer: D

Explanation:

After the VPC peering connection is established, you need to ensure that the route tables are modified to ensure traffic can between the VPCs
Option A ,B and C are invalid because allowing access the Internet gateway and usage of public subnets can help for Inter, access, but not for VPC Peering.
For more information on VPC peering routing, please visit the below URL: [com/AmazonVPC/latest/Peeri](https://docs.aws.amazon.com/AmazonVPC/latest/Peeri)
The correct answer is: Check the Route tables for the VPCs Submit your Feedback/Queries to our Experts

NEW QUESTION 215

- (Exam Topic 3)

Your company has a requirement to work with a DynamoDB table. There is a security mandate that all data should be encrypted at rest. What is the easiest way to accomplish this for DynamoDB.

Please select:

- A. Use the AWS SDK to encrypt the data before sending it to the DynamoDB table
- B. Encrypt the DynamoDB table using KMS during its creation
- C. Encrypt the table using AWS KMS after it is created
- D. Use S3 buckets to encrypt the data before sending it to DynamoDB

Answer: B

Explanation:

The most easiest option is to enable encryption when the DynamoDB table is created. The AWS Documentation mentions the following
Amazon DynamoDB offers fully managed encryption at rest. DynamoDB encryption at rest provides enhanced security by encrypting your data at rest using an AWS Key Management Service (AWS KMS) managed encryption key for DynamoDB. This functionality eliminates the operational burden and complexity involved in protecting sensitive data.

Option A is partially correct, you can use the AWS SDK to encrypt the data, but the easier option would be to encrypt the table before hand.

Option C is invalid because you cannot encrypt the table after it is created

Option D is invalid because encryption for S3 buckets is for the objects in S3 only.

For more information on securing data at rest for DynamoDB please refer to below URL:

<https://docs.aws.amazon.com/amazondynamodb/latest/developerguide/EncryptionAtRest.html> The correct answer is: Encrypt the DynamoDB table using KMS during its creation Submit your Feedback/Queries to our Experts

NEW QUESTION 218

- (Exam Topic 3)

Your company hosts critical data in an S3 bucket. There is a requirement to ensure that all data is encrypted. There is also metadata about the information stored in the bucket that needs to be encrypted as well. Which of the below measures would you take to ensure that the metadata is encrypted?

Please select:

- A. Put the metadata as metadata for each object in the S3 bucket and then enable S3 Server side encryption.
- B. Put the metadata as metadata for each object in the S3 bucket and then enable S3 Server KMS encryption.
- C. Put the metadata in a DynamoDB table and ensure the table is encrypted during creation time.
- D. Put the metadata in the S3 bucket itself.

Answer: C

Explanation:

Option A ,B and D are all invalid because the metadata will not be encrypted in any case and this is a key requirement from the question.

One key thing to note is that when the S3 bucket objects are encrypted, the meta data is not encrypted. So the best option is to use an encrypted DynamoDB table
Important

All GET and PUT requests for an object protected by AWS KMS will fail if they are not made via SSL or by using SigV4. SSE-KMS encrypts only the object data.

Any object metadata is not encrypted. For more information on using KMS encryption for S3, please refer to below URL: 1

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

The correct answer is: Put the metadata in a DynamoDB table and ensure the table is encrypted during creation time. Submit your Feedback/Queries to our Experts

NEW QUESTION 220

- (Exam Topic 3)

A company's Security Team received an email notification from the Amazon EC2 Abuse team that one or more of the company's Amazon EC2 instances may have been compromised

Which combination of actions should the Security team take to respond to (be current modem? (Select TWO.)

- A. Open a support case with the AWS Security team and ask them to remove the malicious code from the affected instance
- B. Respond to the notification and list the actions that have been taken to address the incident
- C. Delete all IAM users and resources in the account
- D. Detach the internet gateway from the VPC remove aft rules that contain 0.0.0.0V0 from the security groups, and create a NACL rule to deny all traffic Inbound from the internet
- E. Delete the identified compromised instances and delete any associated resources that the Security team did not create.

Answer: DE

NEW QUESTION 222

- (Exam Topic 3)

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

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

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

Answer: BD

Explanation:

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

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

Option C is invalid because need to ensure incoming traffic on ephemeral ports and not only port 443

Option E and F are invalid since here you are allowing additional ports on Security groups which are not required

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

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

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

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NEW QUESTION 226

- (Exam Topic 3)

A company has two AWS accounts within AWS Organizations. In Account-1. Amazon EC2 Auto Scaling is launched using a service-linked role. In Account-2. Amazon EBS volumes are encrypted with an AWS KMS key A Security Engineer needs to ensure that the service-linked role can launch instances with these encrypted volumes

Which combination of steps should the Security Engineer take in both accounts? (Select TWO.)

- A. Allow Account-1 to access the KMS key in Account-2 using a key policy
- B. Attach an IAM policy to the service-linked role in Account-1 that allows these actions CreateGrant, DescribeKey, Encrypt, GenerateDataKey, Decrypt, and ReEncrypt
- C. Create a KMS grant for the service-linked role with these actions CreateGrant, DescribeKey, Encrypt, GenerateDataKey, Decrypt, and ReEncrypt
- D. Attach an IAM policy to the role attached to the EC2 instances with KMS actions and then allow Account-1 in the KMS key policy.
- E. Attach an IAM policy to the user who is launching EC2 instances and allow the user to access the KMS key policy of Account-2.

Answer: CD

NEW QUESTION 227

- (Exam Topic 3)

A company has a legacy application that outputs all logs to a local text file. Logs from all applications running on AWS must be continually monitored for security related messages.

What can be done to allow the company to deploy the legacy application on Amazon EC2 and still meet the monitoring requirement? Please select:

- A. Create a Lambda function that mounts the EBS volume with the logs and scans the logs for security incident
- B. Trigger the function every 5 minutes with a scheduled Cloudwatch event.
- C. Send the local text log files to CloudWatch Logs and configure a CloudWatch metric filter
- D. Trigger cloudwatch alarms based on the metrics.
- E. Install the Amazon inspector agent on any EC2 instance running the legacy applicatio
- F. Generate CloudWatch alerts a based on any Amazon inspector findings.
- G. Export the local text log files to CloudTrai
- H. Create a Lambda function that queries the CloudTrail logs for security ' incidents using Athena.

Answer: B

Explanation:

One can send the log files to Cloudwatch Logs. Log files can also be sent from On-premise servers. You can then specify metrii to search the logs for any specific values. And then create alarms based on these metrics.

Option A is invalid because this will be just a long over drawn process to achieve this requirement Option C is invalid because AWS Inspector cannot be used to monitor for security related messages.

Option D is invalid because files cannot be exported to AWS Cloudtrail

For more information on Cloudwatch logs agent please visit the below URL:

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

The correct answer is: Send the local text log files to Cloudwatch Logs and configure a Cloudwatch metric filter. Trigger cloudwatch alarms based on the metrics.

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NEW QUESTION 229

- (Exam Topic 3)

You want to launch an EC2 Instance with your own key pair in AWS. How can you achieve this? Choose 3 answers from the options given below.

Please select:

- A. Use a third party tool to create the Key pair
- B. Create a new key pair using the AWS CLI
- C. Import the public key into EC2
- D. Import the private key into EC2

Answer: ABC

Explanation:

This is given in the AWS Documentation Creating a Key Pair

You can use Amazon EC2 to create your key pair. For more information, see Creating a Key Pair Using Amazon EC2.

Alternatively, you could use a third-party tool and then import the public key to Amazon EC2. For more information, see Importing Your Own Public Key to Amazon EC2.

Option B is Correct, because you can use the AWS CLI to create a new key pair 1 <https://docs.aws.amazon.com/cli/latest/userguide/cli-ec2-keypairs.html>

Option D is invalid because the public key needs to be stored in the EC2 Instance For more information on EC2 Key pairs, please visit the below URL:

* <https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ec2-key-pairs>

The correct answers are: Use a third party tool to create the Key pair. Create a new key pair using the AWS CLI, Import the public key into EC2

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NEW QUESTION 234

- (Exam Topic 3)

An audit determined that a company's Amazon EC2 instance security group violated company policy by allowing unrestricted incoming SSH traffic. A security engineer must implement a near-real-time monitoring and alerting solution that will notify administrators of such violations.

Which solution meets these requirements with the MOST operational efficiency?

- A. Create a recurring Amazon Inspector assessment run that runs every day and uses the Network Reachability packag
- B. Create an Amazon CloudWatch rule that invokes an AWS Lambda function when an assessment run start
- C. Configure the Lambda function to retrieve and evaluate the assessment run report when it complete
- D. Configure the Lambda function also to publish an Amazon Simple Notification Service (Amazon SNS) notification if there are any violations for unrestricted incoming SSH traffic.
- E. Use the restricted-ssh AWS Config managed rule that is invoked by security group configuration changes that are not complian
- F. Use the AWS Config remediation feature to publish a message to an Amazon Simple Notification Service (Amazon SNS) topic.
- G. Configure VPC Flow Logs for the VP
- H. and specify an Amazon CloudWatch Logs grou
- I. Subscribe the CloudWatch Logs group to an AWS Lambda function that parses new log entries, detects successful connections on port 22, and publishes a notification through Amazon Simple Notification Service (Amazon SNS).
- J. Create a recurring Amazon Inspector assessment run that runs every day and uses the Security Best Practices packag
- K. Create an Amazon CloudWatch rule that invokes an AWS Lambda function when an assessment run start
- L. Configure the Lambda function to retrieve and evaluate the assessment run report when it complete
- M. Configure the Lambda function also to publish an Amazon Simple Notification Service (Amazon SNS) notification if there are any violations for unrestricted incoming SSH traffic.

Answer: A

NEW QUESTION 238

- (Exam Topic 3)

A company deploys a distributed web application on a fleet of Amazon EC2 instances. The fleet is behind an Application Load Balancer (ALB) that will be configured to terminate the TLS connection. All TLS traffic to the ALB must stay secure, even if the certificate private key is compromised.

How can a security engineer meet this requirement?

- A. Create an HTTPS listener that uses a certificate that is managed by AWS Certificate Manager (ACM).
- B. Create an HTTPS listener that uses a security policy that uses a cipher suite with perfect toward secrecy (PFS).
- C. Create an HTTPS listener that uses the Server Order Preference security feature.
- D. Create a TCP listener that uses a custom security policy that allows only cipher suites with perfect forward secrecy (PFS).

Answer: A

NEW QUESTION 243

- (Exam Topic 3)

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

Please select:

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

Answer: A

Explanation:

The AWS Documentation mentions the following

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

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

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

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

NEW QUESTION 248

- (Exam Topic 3)

Your development team is using access keys to develop an application that has access to S3 and DynamoDB. A new security policy has outlined that the credentials should not be older than 2 months, and should be rotated. How can you achieve this?

Please select:

- A. Use the application to rotate the keys in every 2 months via the SDK
- B. Use a script to query the creation date of the key
- C. If older than 2 months, create new access key and update all applications to use it inactivate the old key and delete it.
- D. Delete the user associated with the keys after every 2 month
- E. Then recreate the user again.
- F. Delete the IAM Role associated with the keys after every 2 month
- G. Then recreate the IAM Role again.

Answer: B

Explanation:

One can use the CLI command `list-access-keys` to get the access keys. This command also returns the "CreateDate" of the keys. If the CreateDate is older than 2 months, then the keys can be deleted.

The Returns `list-access-keys` CLI command returns information about the access key IDs associated with the specified IAM user. If there are none, the action returns an empty list

Option A is incorrect because you might as use a script for such maintenance activities Option C is incorrect because you would not rotate the users themselves

Option D is incorrect because you don't use IAM roles for such a purpose For more information on the CLI command, please refer to the below Link:

<http://docs.aws.amazon.com/cli/latest/reference/iam/list-access-keys.html>

The correct answer is: Use a script to query the creation date of the keys. If older than 2 months, create new access key and update all applications to use it inactivate the old key and delete it.

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NEW QUESTION 250

- (Exam Topic 3)

DDoS attacks that happen at the application layer commonly target web applications with lower volumes of traffic compared to infrastructure attacks. To mitigate these types of attacks, you should probably want to include a WAF (Web Application Firewall) as part of your infrastructure. To inspect all HTTP requests, WAFs sit in-line with your application traffic. Unfortunately, this creates a scenario where WAFs can become a point of failure or bottleneck. To mitigate this problem, you need the ability to run multiple WAFs on demand during traffic spikes. This type of scaling for WAF is done via a "WAF sandwich." Which of the following statements best describes what a "WAF sandwich" is? Choose the correct answer from the options below

Please select:

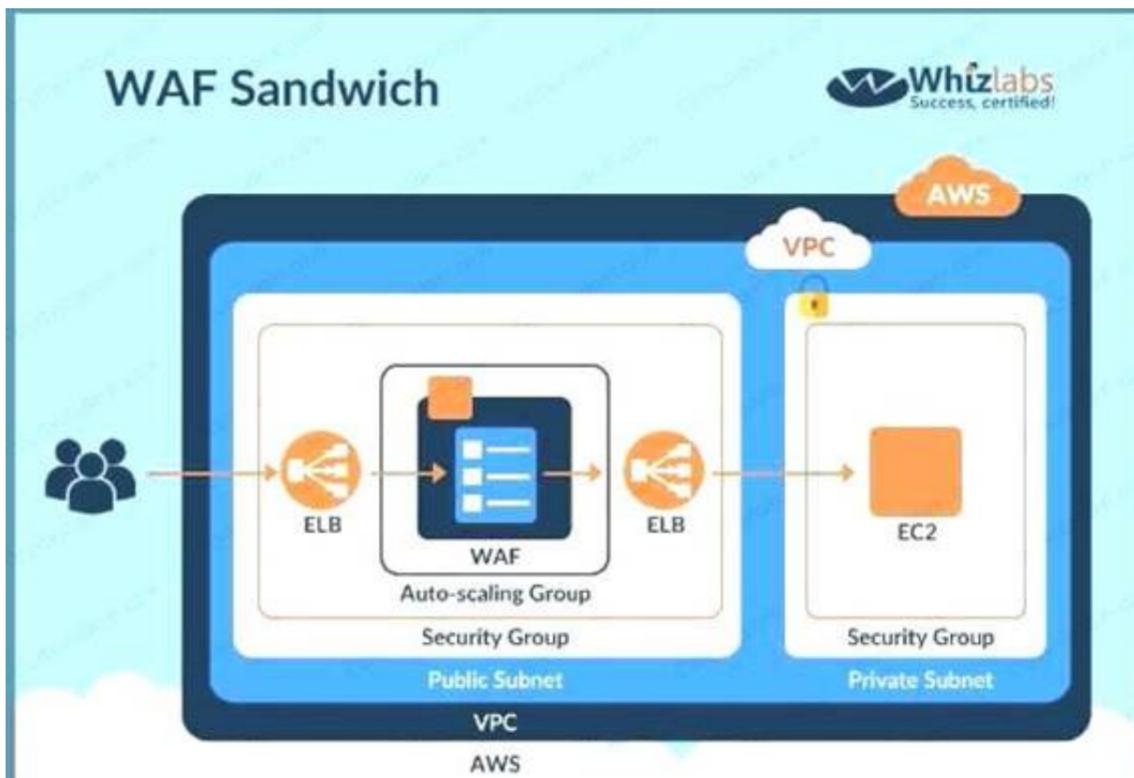
- A. The EC2 instance running your WAF software is placed between your private subnets and any NATed connections to the internet.
- B. The EC2 instance running your WAF software is placed between your public subnets and your Internet Gateway.
- C. The EC2 instance running your WAF software is placed between your public subnets and your private subnets.
- D. The EC2 instance running your WAF software is included in an Auto Scaling group and placed in between two Elastic load balancers.

Answer: D

Explanation:

The below diagram shows how a WAF sandwich is created. Its the concept of placing the Ec2 instance which hosts the WAF software in between 2 elastic load balancers.

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



Option A,B and C are incorrect since the EC2 Instance with the WAF software needs to be placed in an Autoscaling Group For more information on a WAF sandwich please refer to the below Link:

<https://www.cloudaxis.com/2016/11/21/waf-sandwich/>

The correct answer is: The EC2 instance running your WAF software is included in an Auto Scaling group and placed in between two Elastic load balancers. Submit your Feedback/Queries to our Experts

NEW QUESTION 252

- (Exam Topic 3)

A company needs to retain tog data archives for several years to be compliant with regulations. The tog data is no longer used but It must be retained What Is the MOST secure and cost-effective solution to meet these requirements?

- A. Archive the data to Amazon S3 and apply a restrictive bucket policy to deny the s3 DeleteOotect API
- B. Archive the data to Amazon S3 Glacier and apply a Vault Lock policy
- C. Archive the data to Amazon S3 and replicate it to a second bucket in a second AWS Region Choose the S3 Standard-Infrequent Access (S3 Standard-1A) storage class and apply a restrictive bucket policy to deny the s3 DeleteObject API
- D. Migrate the log data to a 16 T8 Amazon Elastic Block Store (Amazon EBS) volume Create a snapshot of the EBS volume

Answer: B

NEW QUESTION 253

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