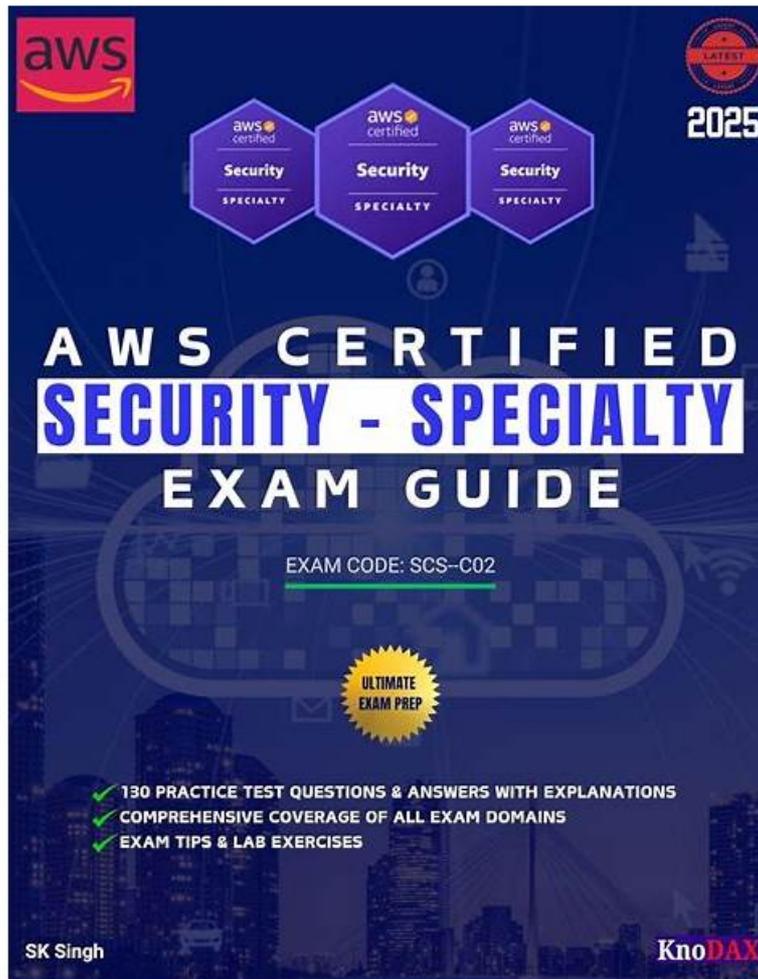


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Amazon AWS Certified Security - Specialty Sample Questions (Q122-Q127):

NEW QUESTION # 122

A company is deploying an Amazon EC2-based application. The application will include a custom health-checking component that produces health status data in JSON format. A Security Engineer must implement a secure solution to monitor application availability in near-real time by analyzing the health status data.

Which approach should the Security Engineer use?

- A. Generate events from the health-checking component and send them to Amazon CloudWatch Events. Include the status data as event payloads. Use CloudWatch Events rules to invoke an IAM Lambda function that analyzes the data.
- B. Run the Amazon Kinesis Agent to write the status data to Amazon Kinesis Data Firehose. Store the streaming data from Kinesis Data Firehose in Amazon Redshift. (then run a script on the pool data and analyze the data in Amazon Redshift)
- C. Use Amazon CloudWatch monitoring to capture Amazon EC2 and networking metrics. Visualize metrics using Amazon CloudWatch dashboards.
- D. Write the status data directly to a public Amazon S3 bucket from the health-checking component. Configure S3 events to invoke an IAM Lambda function that analyzes the data.

Answer: C

Explanation:

Amazon CloudWatch monitoring is a service that collects and tracks metrics from AWS resources and applications, and provides visualization tools and alarms to monitor performance and availability¹. The health status data in JSON format can be sent to CloudWatch as custom metrics², and then displayed in CloudWatch dashboards³. The other options are either inefficient or insecure for monitoring application availability in near-real time.

NEW QUESTION # 123

A company uses infrastructure as code (IaC) to create AWS infrastructure. The company writes the code as AWS CloudFormation templates to deploy the infrastructure. The company has an existing CI/CD pipeline that the company can use to deploy these templates.

After a recent security audit, the company decides to adopt a policy-as-code approach to improve the company's security posture on AWS. The company must prevent the deployment of any infrastructure that would violate a security policy, such as an unencrypted Amazon Elastic Block Store (Amazon EBS) volume.

Which solution will meet these requirements?

- A. Create rule sets in AWS CloudFormation Guard. Run validation checks for CloudFormation templates as a phase of the CI/CD process.
- B. Turn on AWS Trusted Advisor. Configure security notifications as webhooks in the preferences section of the CI/CD pipeline.
- C. Create rule sets as SCPs. Integrate the SCPs as a part of validation control in a phase of the CI/CD process.
- D. Turn on AWS Config. Use the prebuilt rules or customized rules. Subscribe the CI/CD pipeline to an Amazon Simple Notification Service (Amazon SNS) topic that receives notifications from AWS Config.

Answer: A

Explanation:

The correct answer is C. Create rule sets in AWS CloudFormation Guard. Run validation checks for CloudFormation templates as a phase of the CI/CD process.

This answer is correct because AWS CloudFormation Guard is a tool that helps you implement policy-as-code for your CloudFormation templates. You can use Guard to write rules that define your security policies, such as requiring encryption for EBS volumes, and then validate your templates against those rules before deploying them. You can integrate Guard into your CI/CD pipeline as a step that runs the validation checks and prevents the deployment of any non-compliant templates^{1,2}.

The other options are incorrect because:

* A. Turning on AWS Trusted Advisor and configuring security notifications as webhooks in the preferences section of the CI/CD pipeline is not a solution, because AWS Trusted Advisor is not a policy-as-code tool, but a service that provides recommendations to help you follow AWS best practices. Trusted Advisor does not allow you to define your own security policies or validate your CloudFormation templates against them³.

* B. Turning on AWS Config and using the prebuilt or customized rules is not a solution, because AWS Config is not a policy-as-code tool, but a service that monitors and records the configuration changes of your AWS resources. AWS Config does not allow you to validate your CloudFormation templates before deploying them, but only evaluates the compliance of your resources after

they are created⁴.

* D. Creating rule sets as SCPs and integrating them as a part of validation control in a phase of the CI/CD process is not a solution, because SCPs are not policy-as-code tools, but policies that you can use to manage permissions in your AWS Organizations. SCPs do not allow you to validate your CloudFormation templates, but only restrict the actions that users and roles can perform in your accounts⁵.

References:

1: What is AWS CloudFormation Guard? 2: Introducing AWS CloudFormation Guard 2.0 3: AWS Trusted Advisor 4: What Is AWS Config? 5: Service control policies - AWS Organizations

NEW QUESTION # 124

A security administrator has enabled AWS Security Hub for all the AWS accounts in an organization in AWS Organizations. The security team wants near-real-time response and remediation for deployed AWS resources that do not meet security standards. All changes must be centrally logged for auditing purposes.

The organization has reached the quotas for the number of SCPs attached to an OU and SCP document size. The team wants to avoid making any changes to any of the SCPs. The solution must maximize scalability and cost-effectiveness.

Which combination of actions should the security administrator take to meet these requirements?

(Choose three.)

- A. Create a Security Hub custom action to reference in an Amazon EventBridge event rule in the delegated administrator AWS account.
- B. Create an Amazon EventBridge event rule to Invoke an AWS Lambda function that will take action on AWS resources.
- C. Use AWS Systems Manager Change Manager to track configuration changes to AWS resources. Create a Systems Manager document to remediate the AWS resources in the delegated administrator AWS account.
- D. Create an Amazon EventBridge event rule to invoke an AWS Lambda function that will evaluate AWS resource configuration for a set of API requests and create a finding for noncompliant AWS resources.
- E. Create an AWS Config custom rule to detect configuration changes to AWS resources. Create an AWS Lambda function to remediate the AWS resources in the delegated administrator AWS account.
- F. Create an Amazon EventBridge event rule to invoke an AWS Lambda function on a schedule to assess specific AWS Config rules.

Answer: C,D,E

NEW QUESTION # 125

A security team is using Amazon EC2 Image Builder to build a hardened AMI with forensic capabilities. An AWS Key Management Service (AWS KMS) key will encrypt the forensic AMI EC2 Image Builder successfully installs the required patches and packages in the security team's AWS account. The security team uses a federated IAM role in the same AWS account to sign in to the AWS Management Console and attempts to launch the forensic AMI. The EC2 instance launches and immediately terminates.

What should the security team do to launch the EC2 instance successfully

- A. Update the policy that is associated with the KMS key that is used to encrypt the forensic AMI. Configure the policy to allow the kms. Encrypt and kms Decrypt actions for the federated IAM role.
- B. Update the policy that is associated with the federated IAM role to allow the kms. DescribeKey action for the KMS key that is used to encrypt the forensic AMI.
- C. Update the policy that is associated with the federated IAM role to allow the ec2 Start Instances action in the security team's AWS account.
- D. Update the policy that is associated with the federated IAM role to allow the ec2. DescribeImages action for the forensic AMI.

Answer: A

Explanation:

<https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/troubleshooting-launch.html#troubleshooting-launch-internal>

NEW QUESTION # 126

A company has two AWS accounts. One account is for development workloads. The other account is for production workloads. For compliance reasons the production account contains all the AWS Key Management Service (AWS KMS) keys that the

company uses for encryption.

The company applies an IAM role to an AWS Lambda function in the development account to allow secure access to AWS resources. The Lambda function must access a specific KMS customer managed key that exists in the production account to encrypt the Lambda function's data.

Which combination of steps should a security engineer take to meet these requirements? (Select TWO.)

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

Answer: D,E

Explanation:

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

Configure the key policy for the customer managed key in the production account to allow access to the IAM role of the Lambda function in the development account. A key policy is a resource-based policy that defines who can use or manage a KMS key. To grant cross-account access to a KMS key, you must specify the AWS account ID and the IAM role ARN of the external principal in the key policy statement. For more information, see [Allowing users in other accounts to use a KMS key](#).

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

This solution will meet the requirements of allowing secure access to a KMS customer managed key across AWS accounts.

The other options are incorrect because they either do not grant cross-account access to the KMS key (A, C), or do not use a valid policy type for KMS keys (D).

Verified Reference:

<https://docs.aws.amazon.com/kms/latest/developerguide/key-policy-modifying-external-accounts.html>

<https://docs.aws.amazon.com/kms/latest/developerguide/iam-policies.html>

NEW QUESTION # 127

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