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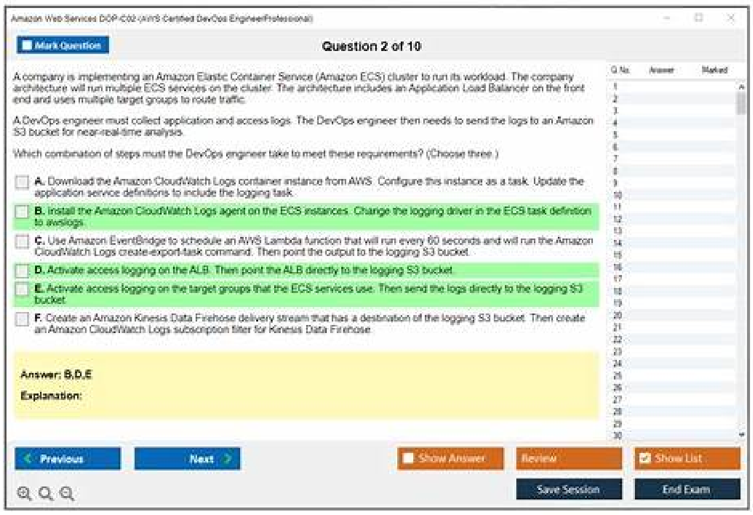

Question 2 of 10

A company is implementing an Amazon Elastic Container Service (Amazon ECS) cluster to run its workload. The company architecture will run multiple ECS services on the cluster. The architecture includes an Application Load Balancer on the front end and uses multiple target groups to route traffic.

A DevOps engineer must collect application and access logs. The DevOps engineer then needs to send the logs to an Amazon S3 bucket for near-real-time analysis.

Which combination of steps must the DevOps engineer take to meet these requirements? (Choose three.)

- □ **A.** Download the Amazon CloudWatch Logs container instance from AWS. Configure this instance as a task. Update the application service definitions to include the logging task.
- □ **B.** Install the Amazon CloudWatch Logs agent on the ECS instances. Change the logging driver in the ECS task definition to awslogs.
- □ **C.** Use Amazon EventBridge to schedule an AWS Lambda function that will run every 60 seconds and will run the Amazon CloudWatch Logs create-export-task command. Then point the output to the logging S3 bucket.
- □ **D.** Activate access logging on the ALB. Then point the ALB directly to the logging S3 bucket.
- □ **E.** Activate access logging on the target groups that the ECS services use. Then send the logs directly to the logging S3 bucket.
- □ **F.** Create an Amazon Kinesis Data Firehose delivery stream that has a destination of the logging S3 bucket. Then create an Amazon CloudWatch Logs subscription filter for Kinesis Data Firehose.

Answer: B,D,E

Explanation:

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The DOP-C02 Certification is suitable for professionals who are responsible for implementing and managing DevOps practices on AWS. This includes DevOps engineers, developers, system administrators, and IT professionals who work with AWS. AWS Certified DevOps Engineer - Professional certification is also suitable for those who are responsible for designing and implementing highly available, fault-tolerant, and scalable AWS systems.

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Amazon AWS Certified DevOps Engineer - Professional Sample Questions (Q257-Q262):

NEW QUESTION # 257

A company's application development team uses Linux-based Amazon EC2 instances as bastion hosts. Inbound SSH access to the bastion hosts is restricted to specific IP addresses, as defined in the associated security groups. The company's security team wants to receive a notification if the security group rules are modified to allow SSH access from any IP address.
What should a DevOps engineer do to meet this requirement?

- A. Create an AWS Config rule by using the restricted-ssh managed rule to check whether security groups disallow unrestricted incoming SSH traffic. Configure automatic remediation to publish a message to an Amazon Simple Notification Service (Amazon SNS) topic.
- B. Enable Amazon GuardDuty and check the findings for security groups in AWS Security Hub. Configure an Amazon EventBridge rule with a custom pattern that matches GuardDuty events with an output of NON_COMPLIANT. Define an Amazon Simple Notification Service (Amazon SNS) topic as the target.
- C. Create an Amazon EventBridge rule with a source of aws.cloudtrail and the event name AuthorizeSecurityGroupIngress. Define an Amazon Simple Notification Service (Amazon SNS) topic as the target.
- D. Enable Amazon Inspector. Include the Common Vulnerabilities and Exposures-1.1 rules package to check the security groups that are associated with the bastion hosts. Configure Amazon Inspector to publish a message to an Amazon Simple Notification Service (Amazon SNS) topic.

Answer: C

Explanation:
https://aws.amazon.com/premiumsupport/knowledge-center/monitor-security-group-changes-ec2/

NEW QUESTION # 258
A company uses AWS Lambda functions in the primary operating AWS Region of its AWS account. The company manually created the Lambda functions.
The company needs to use a Python-based AWS Cloud Development Kit (AWS CDK) application to manage the Lambda functions.
Which solution meets these requirements with the LEAST implementation effort?

- A. Start a partial scan by using the AWS CloudFormation IaC generator. Filter by the Lambda resource type. Create a CloudFormation template from the scanned resources. Convert the template to an AWS CDK app.
- B. Start a partial scan by using the AWS CloudFormation IaC generator. Filter by the Lambda resource type. Create a CloudFormation template. Replace the code properties, then convert the template to an AWS CDK app.
- C. Create a resource inventory by using AWS Config. Filter by the Lambda resource type. Export the inventory to a .csv file. Write an AWS CDK app that references the Lambda functions from the .csv file.
- D. Start a partial scan by using the AWS CloudFormation IaC generator. Filter by the Lambda resource type. Create an AWS CDK app from the scanned resources.

Answer: D

Explanation:
The CloudFormation IaC generator can reverse-engineer existing resources (partial scan) into infrastructure as code. Filtering by Lambda type creates CDK-ready constructs with minimal manual work. AWS recommends this method for IaC onboarding of existing workloads.

NEW QUESTION # 259
A company uses AWS WAF to protect its cloud infrastructure. A DevOps engineer needs to give an operations team the ability to analyze log messages from AWS WAR. The operations team needs to be able to create alarms for specific patterns in the log output.
Which solution will meet these requirements with the LEAST operational overhead?

- A. Create an Amazon S3 bucket for the log output. Configure AWS WAF to send log outputs to the S3 bucket. Instruct the operations team to create AWS Lambda functions that detect each desired log message pattern. Configure the Lambda functions to publish to an Amazon Simple Notification Service (Amazon SNS) topic.
- B. Create an Amazon OpenSearch Service cluster and appropriate indexes. Configure an Amazon Kinesis Data Firehose delivery stream to stream log data to the indexes. Use OpenSearch Dashboards to create filters and widgets.
- C. Create an Amazon CloudWatch Logs log group. Configure the appropriate AWS WAF web ACL to send log messages to the log group. Instruct the operations team to create CloudWatch metric filters.
- D. Create an Amazon S3 bucket for the log output. Configure AWS WAF to send log outputs to the S3 bucket. Use

Amazon Athena to create an external table definition that fits the log message pattern.Instruct the operations team to write SOL queries and to create Amazon CloudWatch metric filters for the Athena queries.

Answer: C

Explanation:
Step 1: Sending AWS WAF Logs to CloudWatch LogsAWS WAF allows you to log requests that are evaluated against your web ACLs. These logs can be sent directly to CloudWatch Logs, which enables real- time monitoring and analysis.
Action: Configure the AWS WAF web ACL to send log messages to a CloudWatch Logs log group.
Why: This allows the operations team to view the logs in real time and analyze patterns using CloudWatch metric filters.
Reference: AWS documentation on AWS WAF Logs to CloudWatch.
Step 2: Creating CloudWatch Metric FiltersCloudWatch metric filters can be used to search for specific patterns in log data. The operations team can create filters for certain log patterns and set up alarms based on these filters.
Action: Instruct the operations team to create CloudWatch metric filters to detect patterns in the WAF log output.
Why: Metric filters allow the team to trigger alarms based on specific patterns without needing to manually search through logs.
Reference: AWS documentation on Metric Filters in CloudWatch Logs.
This corresponds to Option A: Create an Amazon CloudWatch Logs log group. Configure the appropriate AWS WAF web ACL to send log messages to the log group. Instruct the operations team to create CloudWatch metric filters.

NEW QUESTION # 260
A company operates sensitive workloads across the AWS accounts that are in the company's organization in AWS Organizations The company uses an IP address range to delegate IP addresses for Amazon VPC CIDR blocks and all non-cloud hardware.
The company needs a solution that prevents principals that are outside the company's IP address range from performing AWS actions In the organization's accounts Which solution will meet these requirements?

- A. In Organizations, create an SCP that allows source IP addresses that are inside of the company s IP address range. Attach the SCP to the organization's root.
- B. Configure Amazon GuardDuty for the organization. Create a GuardDuty trusted IP address list for the company's IP range Activate the trusted IP list for the organization.
- C. Configure AWS Firewall Manager for the organization. Create an AWS Network Firewall policy that allows only source traffic from the company's IP address range Set the policy scope to all accounts in the organization.
- D. In Organizations, create an SCP that denies source IP addresses that are outside of the company s IP address range. Attach the SCP to the organization's root

Answer: D

Explanation:
https://docs.aws.amazon.com/IAM/latest/UserGuide/reference_policies_examples_aws_deny-ip.html

NEW QUESTION # 261
A company uses AWS Organizations with CloudTrail trusted access. All events across accounts and Regions must be logged and retained in an audit account, and failed login attempts should trigger real-time notifications.
Which solution meets these requirements?

- A. Publish CloudTrail logs to S3 in the audit account. Create an EventBridge rule for failed login events and notify via SNS.
- B. Store logs in the management account and query using Athena + Lambda every 5 minutes.
- C. Stream to Kinesis # Flink # SNS.
- D. Store logs in audit S3 + CloudWatch log group in management account + metric filter for failed logins # SNS.

Answer: A

Explanation:
Using an organization trail with logs centralized in the audit account's S3 bucket ensures compliance and isolation. An EventBridge rule in the audit account triggers on failed login events (ConsoleLogin failed) and sends SNS notifications in near real time.

NEW QUESTION # 262
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