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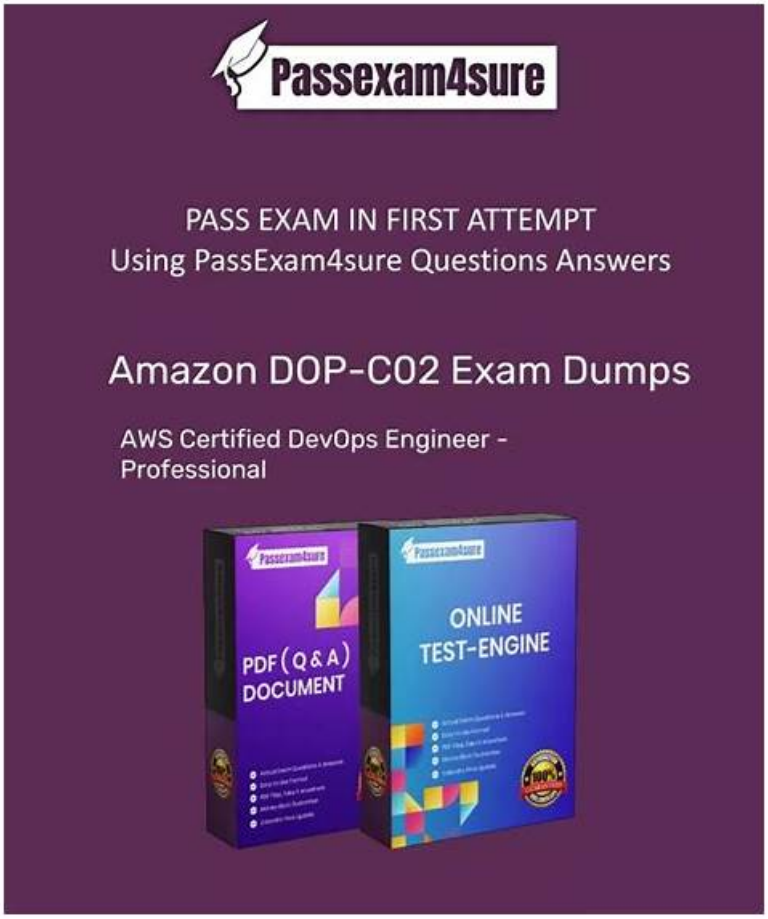

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The DOP-C02 Exam is a challenging and comprehensive exam that requires a high level of experience and expertise in the field of DevOps. DOP-C02 exam consists of multiple-choice questions and hands-on exercises that test the candidate's ability to design, deploy, and manage applications on the AWS platform using DevOps principles and practices.

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The DOP-C02 exam consists of 75 multiple-choice and multiple-response questions and has a time limit of 180 minutes. DOP-C02 exam is available in English, Japanese, Korean, and Simplified Chinese. Candidates must achieve a passing score of 750 out of 1000 to receive the certification. AWS Certified DevOps Engineer - Professional certification is valid for three years, after which candidates must recertify to maintain their certification status. Overall, the DOP-C02 Exam is an excellent opportunity for

experienced DevOps professionals to validate their skills and demonstrate their expertise in managing AWS environments using DevOps practices.

Amazon AWS Certified DevOps Engineer - Professional Sample Questions (Q152-Q157):

NEW QUESTION # 152
A company is implementing a well-architected design for its globally accessible API stack. The design needs to ensure both high reliability and fast response times for users located in North America and Europe.
The API stack contains the following three tiers:
Amazon API Gateway
AWS Lambda
Amazon DynamoDB
Which solution will meet the requirements?

- A. Configure Amazon Route 53 to point to API Gateway API in North America using latency-based routing. Configure the API to forward requests to the Lambda function in the Region nearest to the user. Configure the Lambda function to retrieve and update the data in a DynamoDB table.
- B. Configure Amazon Route 53 to point to API Gateway in North America, create a disaster recovery API in Europe, and configure both APIs to forward requests to the Lambda functions in that Region. Retrieve the data from a DynamoDB global table. Deploy a Lambda function to check the North America API health every 5 minutes. In the event of a failure, update Route 53 to point to the disaster recovery API.
- C. Configure Amazon Route 53 to point to API Gateway APIs in North America and Europe using health checks. Configure the APIs to forward requests to a Lambda function in that Region. Configure the Lambda functions to retrieve and update the data in a DynamoDB table in the same Region as the Lambda function.
- D. Configure Amazon Route 53 to point to API Gateway APIs in North America and Europe using latency-based routing and health checks. Configure the APIs to forward requests to a Lambda function in that Region. Configure the Lambda functions to retrieve and update the data in a DynamoDB global table.

Answer: D

NEW QUESTION # 153
A company's production environment uses an AWS CodeDeploy blue/green deployment to deploy an application. The deployment incudes Amazon EC2 Auto Scaling groups that launch instances that run Amazon Linux 2.
A working appspec. ymi file exists in the code repository and contains the following text.
A DevOps engineer needs to ensure that a script downloads and installs a license file onto the instances before the replacement instances start to handle request traffic. The DevOps engineer adds a hooks section to the appspec. yml file.
Which hook should the DevOps engineer use to run the script that downloads and installs the license file?

- A. BeforeBlockTraffic
- B. Down load Bundle
- C. BeforeInstall
- D. AfterBlockTraffic

Answer: C

Explanation:
Explanation
This hook runs before the new application version is installed on the replacement instances. This is the best place to run the script because it ensures that the license file is downloaded and installed before the replacement instances start to handle request traffic. If you use any other hook, you may encounter errors or inconsistencies in your application.

NEW QUESTION # 154
A company has multiple accounts in an organization in AWS Organizations. The company's SecOps team needs to receive an Amazon Simple Notification Service (Amazon SNS) notification if any account in the organization turns off the Block Public Access feature on an Amazon S3 bucket. A DevOps engineer must implement this change without affecting the operation of any AWS accounts. The implementation must ensure that individual member accounts in the organization cannot turn off the notification.
Which solution will meet these requirements?

- A. Create an AWS CloudFormation template that creates an SNS topic and subscribes the SecOps team's email address to the SNS topic. In the template, include an Amazon EventBridge rule that uses an event pattern of CloudTrail activity for s3:PutBucketPublicAccessBlock and a target of the SNS topic. Deploy the stack to every account in the organization by using CloudFormation StackSets.
- B. Turn on AWS Config across the organization. In the delegated administrator account, create an SNS topic. Subscribe the SecOps team's email address to the SNS topic. Deploy a conformance pack that uses the s3-bucket-level-public-access-prohibited AWS Config managed rule in each account and uses an AWS Systems Manager document to publish an event to the SNS topic to notify the SecOps team.
- C. Designate an account to be the delegated Amazon GuardDuty administrator account. Turn on GuardDuty for all accounts across the organization. In the GuardDuty administrator account, create an SNS topic. Subscribe the SecOps team's email address to the SNS topic. In the same account, create an Amazon EventBridge rule that uses an event pattern for GuardDuty findings and a target of the SNS topic.
- D. Turn on Amazon Inspector across the organization. In the Amazon Inspector delegated administrator account, create an SNS topic. Subscribe the SecOps team's email address to the SNS topic. In the same account, create an Amazon EventBridge rule that uses an event pattern for public network exposure of the S3 bucket and publishes an event to the SNS topic to notify the SecOps team.

Answer: B

Explanation:
Amazon GuardDuty is primarily on threat detection and response, not configuration monitoring A conformance pack is a collection of AWS Config rules and remediation actions that can be easily deployed as a single entity in an account and a Region or across an organization in AWS Organizations. https://docs.aws.amazon.com/config/latest/developerguide/conformance-packs.html
https://docs.aws.amazon.com/config/latest/developerguide/s3-account-level-public-access-blocks.html

NEW QUESTION # 155
A company recently launched multiple applications that use Application Load Balancers. Application response time often slows down when the applications experience problems A DevOps engineer needs to Implement a monitoring solution that alerts the company when the applications begin to perform slowly The DevOps engineer creates an Amazon Simple Notification Semce (Amazon SNS) topic and subscribe the company's email address to the topic What should the DevOps engineer do next to meet the requirements?

- A. Create an Amazon CloudWatch Synthetics canary that runs a custom script to query the applications on a 5-minute interval. Configure the canary to use the SNS topic when the applications return errors.
- B. Create an Amazon CloudWatch alarm that uses the AWS/ApplicationELB namespace RequestCountPerTarget metric Configure the CloudWatch alarm to send a notification when the average response time becomes greater than the longest response time that the application supports Configure the CloudWatch alarm to use the SNS topic
- C. Create an Amazon CloudWatch alarm that uses the AWS/AppljcabonELB namespace RequestCountPerTarget metric Configure the CloudWatch alarm to send a notification when the number of connections becomes greater than the configured number of threads that the application supports Configure the CloudWatch alarm to use the SNS topic.
- D. Create an Amazon EventBridge rule that invokes an AWS Lambda function to query the applications on a 5-minute interval Configure the Lambda function to publish a notification to the SNS topic when the applications return errors.

Answer: A

Explanation:
* Option A is incorrect because creating an Amazon EventBridge rule that invokes an AWS Lambda function to query the applications on a 5-minute interval is not a valid solution. EventBridge rules can only trigger Lambda functions based on events, not on time intervals. Moreover, querying the applications on a 5-minute interval might incur unnecessary costs and network overhead, and might not detect performance issues in real time.
* Option B is correct because creating an Amazon CloudWatch Synthetics canary that runs a custom script to query the applications on a 5-minute interval is a valid solution. CloudWatch Synthetics canaries are configurable scripts that monitor endpoints and APIs by simulating customer behavior.
Canaries can run as often as once per minute, and can measure the latency and availability of theapplications. Canaries can also send notifications to an Amazon SNS topic when they detect errors or performance issues1.
* Option C is incorrect because creating an Amazon CloudWatch alarm that uses the AWS /ApplicationELB namespace RequestCountPerTarget metric is not a valid solution. The RequestCountPerTarget metric measures the number of requests completed or connections made per target in a target group2. This metric does not reflect the application response time, which is the requirement. Moreover, configuring the CloudWatch alarm to send a notification when the number of connections becomes greater than the configured number of threads that the application supports is not a valid way to measure the

application performance, as it depends on the application design and implementation.
* Option D is incorrect because creating an Amazon CloudWatch alarm that uses the AWS /ApplicationELB namespace RequestCountPerTarget metric is not a valid solution, for the same reason as option C. The RequestCountPerTarget metric does not reflect the application response time, which is the requirement. Moreover, configuring the CloudWatch alarm to send a notification when the average response time becomes greater than the longest response time that the application supports is not a valid way to measure the application performance, as it does not account for variability or outliers in the response time distribution.
References:
* 1: Using synthetic monitoring
* 2: Application Load Balancer metrics

NEW QUESTION # 156
A company detects unusual login attempts in many of its AWS accounts. A DevOps engineer must implement a solution that sends a notification to the company's security team when multiple failed login attempts occur.
The DevOps engineer has already created an Amazon Simple Notification Service (Amazon SNS) topic and has subscribed the security team to the SNS topic.
Which solution will provide the notification with the LEAST operational effort?

- A. Configure AWS CloudTrail to send log management events to an Amazon CloudWatch Logs log group. Create a CloudWatch Logs metric filter to match failed ConsoleLogin events. Create a CloudWatch alarm that is based on the metric filter. Configure an alarm action to send messages to the SNS topic.
- B. Configure AWS CloudTrail to send log data events to an Amazon CloudWatch Logs log group. Create a CloudWatch logs metric filter to match failed Consolel_ogin events. Create a CloudWatch alarm that is based on the metric filter. Configure an alarm action to send messages to the SNS topic.
- C. Configure AWS CloudTrail to send log data events to an Amazon S3 bucket. Configure an Amazon S3 event notification for the s3:ObjectCreated event type. Filter the event type by ConsoleLogin failed events. Configure the event notification to forward to the SNS topic.
- D. Configure AWS CloudTrail to send log management events to an Amazon S3 bucket. Create an Amazon Athena query that returns a failure if the query finds failed logins in the logs in the S3 bucket.
  Create an Amazon EventBridge rule to periodically run the query. Create a second EventBridge rule to detect when the query fails and to send a message to the SNS topic.

Answer: B

Explanation:
The correct answer is C. Configuring AWS CloudTrail to send log data events to an Amazon CloudWatch Logs log group and creating a CloudWatch logs metric filter to match failed ConsoleLogin events is the simplest and most efficient way to monitor and alert on failed login attempts. Creating a CloudWatch alarm that is based on the metric filter and configuring an alarm action to send messages to the SNS topic will ensure that the security team is notified when multiple failed login attempts occur. This solution requires the least operational effort compared to the other options.
Option A is incorrect because it involves configuring AWS CloudTrail to send log management events instead of log data events. Log management events are used to track changes to CloudTrail configuration, such as creating, updating, or deleting a trail. Log data events are used to track API activity in AWS accounts, such as login attempts. Therefore, option A will not capture the failed ConsoleLogin events.
Option B is incorrect because it involves creating an Amazon Athena query and two Amazon EventBridge rules to monitor and alert on failed login attempts. This is a more complex and costly solution than using CloudWatch logs and alarms. Moreover, option B relies on the query returning a failure, which may not happen if the query is executed successfully but does not find any failed logins.
Option D is incorrect because it involves configuring AWS CloudTrail to send log data events to an Amazon S3 bucket and configuring an Amazon S3 event notification for the s3:ObjectCreated event type. This solution will not work because the s3:ObjectCreated event type does not allow filtering by ConsoleLogin failed events. The event notification will be triggered for any object created in the S3 bucket, regardless of the event type. Therefore, option D will generate a lot of false positives and unnecessary notifications.
AWS CloudTrail Log File Examples
Creating CloudWatch Alarms for CloudTrail Events: Examples
Monitoring CloudTrail Log Files with Amazon CloudWatch Logs

NEW QUESTION # 157
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