

# DOP-C01<sup>Q&As</sup>

AWS Certified DevOps Engineer - Professional (DOP-C01)

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### QUESTION 1

A company uses a series of individual Amazon CloudFormation templates to deploy its multi-Region applications. These templates must be deployed in a specific order. The company is making more changes to the templates than previously expected and wants to deploy new templates more efficiently. Additionally, the data engineering team must be notified of all changes to the templates.

What should the company do to accomplish these goals?

- A. Create an AWS Lambda function to deploy the CloudFormation templates in the required order. Use stack policies to alert the data engineering team.
- B. Host the CloudFormation templates in Amazon S3. Use Amazon S3 events to directly trigger CloudFormation updates and Amazon SNS notifications.
- C. Implement CloudFormation StackSets and use drift detection to trigger update alerts to the data engineering team.
- D. Leverage CloudFormation nested stacks and stack sets for deployments. Use Amazon SNS to notify the data engineering team.

Correct Answer: D

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### QUESTION 2

An application has microservices spread across different AWS accounts and is integrated with an on-premises legacy system for some of its functionality. Because of the segmented architecture and missing logs, every time the application experiences issues, it is taking too long to gather the logs to identify the issues. A DevOps Engineer must fix the log aggregation process and provide a way to centrally analyze the logs.

Which is the MOST efficient and cost-effective solution?

- A. Collect system logs and application logs by using the Amazon CloudWatch Logs agent. Use the Amazon S3 API to export on-premises logs, and store the logs in an S3 bucket in a central account. Build an Amazon EMR cluster to reduce the logs and derive the root cause.
- B. Collect system logs and application logs by using the Amazon CloudWatch Logs agent. Use the Amazon S3 API to import on-premises logs. Store all logs in S3 buckets in individual accounts. Use Amazon Macie to write a query to search for the required specific event-related data point.
- C. Collect system logs and application logs using the Amazon CloudWatch Logs agent. Install the CloudWatch Logs agent on the on-premises servers. Transfer all logs from AWS to the on-premises data center. Use an Amazon Elasticsearch Logstash Kibana stack to analyze logs on premises.
- D. Collect system logs and application logs by using the Amazon CloudWatch Logs agent. Install a CloudWatch Logs agent for on-premises resources. Store all logs in an S3 bucket in a central account. Set up an Amazon S3 trigger and an AWS Lambda function to analyze incoming logs and automatically identify anomalies. Use Amazon Athena to run ad hoc queries on the logs in the central account.

Correct Answer: D

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### QUESTION 3

A highly regulated company has a policy that DevOps Engineers should not log in to their Amazon EC2 instances except in emergencies. If a DevOps Engineer does log in, the Security team must be notified within 15 minutes of the occurrence.

Which solution will meet these requirements?

A. Install the Amazon Inspector agent on each EC2 instance. Subscribe to Amazon CloudWatch Events notifications. Trigger an AWS Lambda function to check if a message is about user logins. If it is, send a notification to the Security team using Amazon SNS.

B. Install the Amazon CloudWatch agent on each EC2 instance. Configure the agent to push all logs to Amazon CloudWatch Logs and set up a CloudWatch metric filter that searches for user logins. If a login is found, send a notification to the Security team using Amazon SNS.

C. Set up AWS CloudTrail with Amazon CloudWatch Logs. Subscribe CloudWatch Logs to Amazon Kinesis. Attach AWS Lambda to Kinesis to parse and determine if a log contains a user login. If it does, send a notification to the Security team using Amazon SNS.

D. Set up a script on each Amazon EC2 instance to push all logs to Amazon S3. Set up an S3 event to trigger an AWS Lambda function, which triggers an Amazon Athena query to run. The Athena query checks for logins and sends the output to the Security team using Amazon SNS.

Correct Answer: B

### QUESTION 4

Your Company wants to perform A/B testing on a new website feature for 20 percent of its users. The website uses CloudFront for whole site delivery, with some content cached for up to 24 hours. How do you enable this testing for the required proportion of users while minimizing performance impact?

A. Configure the web servers to handle two domain names. The feature is switched on or off depending on which domain name is used for a request. Configure a CloudFront origin for each domain name, and configure the CloudFront distribution to use one origin for 20 percent of users and the other origin for the other 80 percent.

B. Configure the CloudFront distribution to forward a cookie specific to this feature. For requests where the cookie is not set, the web servers set its value to "on" for 20 percent of responses and "off" for 80 percent. For requests where the cookie is set, the web servers use its value to determine whether the feature should be on or off for the response.

C. Create a second stack of web servers that host the website with the feature on. Using Amazon Route53, create two resource record sets with the same name: one with a weighting of "1" and a value of this new stack; the other a weighting of "4" and a value of the existing stack. Use the resource record set's name as the CloudFront distribution's origin.

D. Invalidate all of the CloudFront distribution's cache items that the feature affects. On future requests, the web servers create responses with the feature on for 20 percent of users, and off for 80 percent. The web servers set "Cache-Control: no-cache" on all of these responses.

Correct Answer: B

### QUESTION 5

A DevOps Engineer is launching a new application that will be deployed on infrastructure using Amazon Route 53, an Application Load Balancer, Auto Scaling, and Amazon DynamoDB. One of the key requirements of this launch is that the application must be able to scale to meet a load increase. During periods of low usage, the infrastructure components must scale down to optimize cost. What steps can the DevOps Engineer take to meet the requirements? (Choose two.)

- A. Use AWS Trusted Advisor to submit limit increase requests for the Amazon EC2 instances that will be used by the infrastructure.
- B. Determine which Amazon EC2 instance limits need to be raised by leveraging AWS Trusted Advisor, and submit a request to AWS Support to increase those limits.
- C. Enable Auto Scaling for the DynamoDB tables that are used by the application.
- D. Configure the Application Load Balancer to automatically adjust the target group based on the current load.
- E. Create an Amazon CloudWatch Events scheduled rule that runs every 5 minutes to track the current use of the Auto Scaling group. If usage has changed, trigger a scale-up event to adjust the capacity. Do the same for DynamoDB read and write capacities.

Correct Answer: CD

Reference: <https://docs.aws.amazon.com/autoscaling/ec2/userguide/autoscaling-load-balancer.html>

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