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

AWS Certified DevOps Engineer - Professional (DOP-C01)

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**QUESTION 1**

To monitor API calls against our AWS account by different users and entities, we can use _____ to create a history of calls in bulk for later review, and use _____ for reacting to AWS API calls in real- time.

A. AWS Config; AWS Inspector

B. AWS CloudTrail; AWS Config

C. AWS CloudTrail; CloudWatch Events

D. AWS Config; AWS Lambda

Correct Answer: C

CloudTrail is a batch API call collection service, CloudWatch Events enables real-time monitoring of calls through the Rules object interface. Reference: https://aws.amazon.com/whitepapers/security-at-scale-governance-in-aws/

**QUESTION 2**

Customers have recently been complaining that your web application has randomly stopped responding. During a deep dive of your logs, the team has discovered a major bug in your new Java web application. This bug is causing a memory leak that eventually causes the application to crash. Your web application runs on Amazon EC2 and was built with AWS CloudFormation. Which techniques should you use to help detect these problems faster, as well as help eliminate the server\'s unresponsiveness? (Choose two.)

A. Update your AWS CloudFormation configuration and enable a CustomResource that uses cfnsignal to detect memory leaks.

B. Update your CloudWatch metric granularity config for all Amazon EC2 memory metrics to support five- second granularity. Create a CloudWatch alarm that triggers an Amazon SNS notification to page your team when the application memory becomes too large.

C. Update your AWS CloudFormation configuration to take advantage of Auto Scaling groups. Configure an Auto Scaling group policy to trigger off your custom CloudWatch metrics.

D. Create a custom CloudWatch metric that you push your JVM memory usage to. Create a Cloudwatch alarm that triggers an Amazon SNS notification to page your team when the application memory usage becomes too large.

E. Update your AWS CloudFormation configuration to take advantage of CloudWatch metrics Agent. Configure the CloudWatch Metrics Agent to monitor memory usage and trigger an Amazon SNS alarm.

Correct Answer: CD

**QUESTION 3**

You need your CI to build AMIs with code pre-installed on the images on every new code push. You need to do this as cheaply as possible. How do you do this?

A. Bid on spot instances just above the asking price as soon as new commits come in, perform all instance configuration and setup, then create an AMI based on the spot instance.

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B. Have the CI launch a new on-demand EC2 instance when new commits come in, perform all instance configuration and setup, then create an AMI based on the on-demand instance.

C. Purchase a Light Utilization Reserved Instance to save money on the continuous integration machine. Use these credits whenever your create AMIs on instances.

D. When the CI instance receives commits, attach a new EBS volume to the CI machine. Perform all setup on this EBS volume so you do not need a new EC2 instance to create the AMI.

Correct Answer: A

Spot instances are the cheapest option, and you can use minimum run duration if your AMI takes more than a few minutes to create. Spot instances are also available to run for a predefined duration - in hourly increments up to six hours in length - at a significant discount (30-45%) compared to On-Demand pricing plus an additional 5% during off-peak times1 for a total of up to 50% savings.

Reference: https://aws.amazon.com/ec2/spot/pricing/

**QUESTION 4**

You are building a game high score table in DynamoDB. You will store each user\'s highest score for each game, with many games, all of which have relatively similar usage levels and numbers of players. You need to be able to look up the

highest score for any game.

What\'s the best DynamoDB key structure?

A. HighestScore as the hash / only key.

B. GameID as the hash key, HighestScore as the range key.

C. GameID as the hash / only key.

D. GameID as the range / only key.

Correct Answer: B

Since access and storage for games is uniform, and you need to have ordering within each game for the scores (to access the highest value), your hash (partition) key should be the GameID, and there should be a range key for

HighestScore.

Reference:

http://docs.aws.amazon.com/amazondynamodb/latest/developerguide/GuidelinesForTables.html#Guideli nesForTables.Partitions

**QUESTION 5**

Which statement is true about configuring proxy support for Amazon Inspector agent on a Windows-based system?

A. Amazon Inspector agent supports proxy usage on Windows-based systems through the use of the WinHTTP proxy.

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B. Amazon Inspector agent supports proxy usage on Linux-based systems but not on Windows.

C. Amazon Inspector proxy support on Windows-based systems is achieved through installing proxy-enabled version of the agent which comes with preconfigured files that you need to edit to match your environment.

D. Amazon Inspector agent supports proxy usage on Windows-based systems through awsagent.env configuration file.

Correct Answer: A

Proxy support for AWS agents is achieved through the use of the WinHTTP proxy.

Reference: https://docs.aws.amazon.com/inspector/latest/userguide/inspector_agents-on-win.html#inspectoragent-proxy

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