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**QUESTION 1**

A company has a guideline that every Amazon EC2 instance must be launched from an AMI that the company's security team produces. Every month the security team sends an email message with the latest approved AMIs to all the development teams.

The development teams use AWS CloudFormation to deploy their applications. When developers launch a new service they have to search their email for the latest AMIs that the security department sent. A DevOps engineer wants to automate the process that the security team uses to provide the AMI IDs to the development teams.

What is the MOST scalable solution that meets these requirements?

- A. Direct the security team to use CloudFormation to create new versions of the AMIs and to list the AMI ARNs in an encrypted Amazon S3 object as part of the stack's Outputs Section. Instruct the developers to use a cross-stack reference to load the encrypted S3 object and obtain the most recent AMI ARNs.
- B. Direct the security team to use a CloudFormation stack to create an AWS CodePipeline pipeline that builds new AMIs and places the latest AMI ARNs in an encrypted Amazon S3 object as part of the pipeline output. Instruct the developers to use a cross-stack reference within their own CloudFormation template to obtain the S3 object location and the most recent AMI ARNs.
- C. Direct the security team to use Amazon EC2 Image Builder to create new AMIs and to place the AMI ARNs as parameters in AWS Systems Manager Parameter Store. Instruct the developers to specify a parameter of type SSM in their CloudFormation stack to obtain the most recent AMI ARNs from Parameter Store.
- D. Direct the security team to use Amazon EC2 Image Builder to create new AMIs and to create an Amazon Simple Notification Service (Amazon SNS) topic so that every development team can receive notifications. When the development teams receive a notification, instruct them to write an AWS Lambda function that will update their CloudFormation stack with the most recent AMI ARNs.

Correct Answer: C

<https://docs.aws.amazon.com/AWSCloudFormation/latest/UserGuide/dynamic-references.html>

QUESTION 2

What is the only layer in a Docker image that is not read-only?

- A. they are all read-only
- B. none are read-only
- C. the first layer
- D. the last layer

Correct Answer: D

A Docker image is built up from a series of layers. Each layer represents an instruction in the image's Dockerfile. Each layer except the very last one is read-only.

Reference: <https://docs.docker.com/engine/userguide/storagedriver/imagesandcontainers/#images-andlayers>

**QUESTION 3**

A user is defining a policy for the IAM user. Which of the below mentioned elements can be found in an IAM policy?

- A. Not Effect
- B. Supported Data Types
- C. Principal Resource
- D. Version Management

Correct Answer: B

A user can define various elements for an IAM policy. The elements include Version, ID, Statement, Sid, Effect, Principal, Not Principal, Action, Not Action, Resource, Not Resource, Condition, and Supported Data Types.

Reference: http://docs.aws.amazon.com/IAM/latest/UserGuide/AccessPolicyLanguage_ElementDescriptions.html

QUESTION 4

A company's security team discovers that IAM access keys were potentially exposed. The DevOps team wants to implement a solution that will automatically disable any keys that are suspected of being compromised. The solution also must provide a notification to the security team.

Which solution will accomplish this?

- A. Create an Amazon EventBridge (Amazon CloudWatch Events) event for Amazon Macie. Create an Amazon Simple Notification Service (Amazon SNS) topic with two subscriptions: one to notify the security team and another to invoke an AWS Lambda function that disables the access keys.
- B. Enable Amazon GuardDuty and set up an Amazon EventBridge (Amazon CloudWatch Events) rule event for GuardDuty. Create an Amazon Simple Notification Service (Amazon SNS) topic with two subscriptions: one to notify the security team and another to invoke an AWS Lambda function that disables the access keys.
- C. Run an Amazon EventBridge (Amazon CloudWatch Events) rule every 5 minutes to invoke an AWS Lambda function that checks to see if the compromised tag for any access key is set to true. If the tag is set to true, notify the security team and disable the access keys.
- D. Set up AWS Config and create an AWS CloudTrail event for AWS Config. Create an Amazon Simple Notification Service (Amazon SNS) topic with two subscriptions: one to notify the security team and another to invoke an AWS Lambda function that disables the access keys.

Correct Answer: C

Reference: <https://docs.aws.amazon.com/AmazonCloudWatch/latest/events/RunLambdaSchedule.html>

QUESTION 5

A company uses AWS CloudFormation stacks to deploy updates to its application. The stacks consist of different resources. The resources include AWS Auto Scaling groups, Amazon EC2 instances, Application Load Balancers



(ALBs), and other resources that are necessary to launch and maintain independent stacks. Changes to application resources outside of CloudFormation stack updates are not allowed.

The company recently attempted to update the application stack by using the AWS CLI. The stack failed to update and produced the following error message: "ERROR: both the deployment and the CloudFormation stack rollback failed. The deployment failed because the following resource(s) failed to update: [AutoScalingGroup]."

The stack remains in a status of UPDATE_ROLLBACK_FAILED. *

Which solution will resolve this issue?

- A. Update the subnet mappings that are configured for the ALBs. Run the aws cloudformation update-stack-set AWS CLI command.
- B. Update the IAM role by providing the necessary permissions to update the stack. Run the aws cloudformation continue-update-rollback AWS CLI command.
- C. Submit a request for a quota increase for the number of EC2 instances for the account. Run the aws cloudformation cancel-update-stack AWS CLI command.
- D. Delete the Auto Scaling group resource. Run the aws cloudformation rollback-stack AWS CLI command.

Correct Answer: B

<https://repost.aws/knowledge-center/cloudformation-update-rollback-failed>

If your stack is stuck in the UPDATE_ROLLBACK_FAILED state after a failed update, then the only actions that you can perform on the stack are the ContinueUpdateRollback or DeleteStack operations.

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