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The AWS Certified DevOps Engineer - Professional certification exam, also known as DOP-C02, is designed for professionals who have experience in implementing and managing DevOps practices using AWS tools and services. AWS Certified DevOps Engineer - Professional certification validates a candidate's expertise in areas such as continuous delivery, infrastructure as code, monitoring and logging, and automation of security and compliance.

Amazon AWS Certified DevOps Engineer - Professional Sample Questions (Q316-Q321):

NEW QUESTION # 316

A company uses an Amazon Elastic Kubernetes Service (Amazon EKS) cluster to deploy its web applications on containers. The web applications contain confidential data that cannot be decrypted without specific credentials.

A DevOps engineer has stored the credentials in AWS Secrets Manager. The secrets are encrypted by an AWS Key Management Service (AWS KMS) customer managed key. A Kubernetes service account for a third-party tool makes the secrets available to the applications. The service account assumes an IAM role that the company created to access the secrets. The service account receives an Access Denied (403 Forbidden) error while trying to retrieve the secrets from Secrets Manager. What is the root cause of this issue?

- A. The key policy for the customer managed key does not allow the Kubernetes service account IAM role to use the key.
- B. The IAM role that is attached to the EKS cluster does not have access to retrieve the secrets from Secrets Manager.
- C. The key policy for the customer managed key does not allow the EKS cluster IAM role to use the key.
- D. The IAM role that is assumed by the Kubernetes service account does not have permission to access the EKS cluster.

Answer: A

Explanation:

Accessing a secret from AWS Secrets Manager that is encrypted with a customer managed KMS key requires two distinct permission layers to succeed:

* Secrets Manager permissions (via IAM) such as `secretsmanager:GetSecretValue` for the IAM role assumed by the Kubernetes service account.

* KMS key usage permissions in the KMS key policy, allowing the same IAM principal to perform `kms:Decrypt` (and possibly `kms:GenerateDataKey`) on the customer managed key.

In this scenario, the service account assumes an IAM role explicitly created to access the secrets. The symptom is an HTTP 403 "Access Denied" when retrieving the secret. If the IAM role has Secrets Manager permissions but the call still fails, the typical root cause is that the KMS key policy does not trust or allow that IAM role, so the decrypt operation fails.

Option B correctly identifies that the KMS key policy must include the Kubernetes service account IAM role as a principal with the appropriate KMS actions.

Option A and C refer to the EKS cluster IAM role, which is not the principal making the call. Option D is unrelated: the role's ability to "access the EKS cluster" does not affect its ability to call Secrets Manager or KMS. The missing KMS key policy permission is the underlying cause.

NEW QUESTION # 317

A company has an AWS CloudFormation stack that is deployed in a single AWS account. The company has configured the stack to send event notifications to an Amazon Simple Notification Service (Amazon SNS) topic.

A DevOps engineer must implement an automated solution that applies a tag to the specific CloudFormation stack instance only after a successful stack update occurs. The DevOps engineer has created an AWS Lambda function that applies and updates this tag (or the specific slack instance).

Which solution will meet these requirements?

- A. Adjust the configuration of the CloudFormation stack to send notifications for only an UPDATE_COMPLETE instance status event to the SNS topic. Subscribe the Lambda function to the SNS topic.
- B. Create an Amazon EventBridge rule that matches the UPDATE_COMPLETE event pattern for the instance status of the CloudFormation stack. Configure the rule to invoke the Lambda function.
- C. Create a custom AWS Config rule that produces a compliance change event if the CloudFormation stack has an UPDATE_COMPLETE instance status. Configure AWS Config to directly invoke the Lambda function to automatically remediate the change event.
- D. Run the AWS-UpdateCloudFormationStack AWS Systems Manager Automation runbook when Systems Manager detects an UPDATE_COMPLETE event for the instance status of the CloudFormation stack. Configure the runbook to invoke the Lambda function.

Answer: B

Explanation:

Step 1: Reacting to CloudFormation Stack Events with EventBridgeAWS CloudFormation emits events during the lifecycle of a stack, including the UPDATE_COMPLETE event after a successful stack update. You can use Amazon EventBridge to detect this event and trigger a specific action (such as invoking a Lambda function).

Action: Create an EventBridge rule that listens for the UPDATE_COMPLETE event for the CloudFormation stack.

Why: EventBridge allows you to automatically detect CloudFormation stack lifecycle events and take action based on them.

Step 2: Invoking the Lambda FunctionAfter the EventBridge rule detects the UPDATE_COMPLETE event, it can invoke the pre-configured Lambda function to apply or update the tag on the specific CloudFormation stack instance.

Action: Configure the EventBridge rule to invoke the Lambda function when the UPDATE_COMPLETE event occurs.

Why: This automation ensures that the tag is applied immediately after a successful stack update without any manual intervention.

Reference:

This corresponds to Option C: Create an Amazon EventBridge rule that matches the UPDATE_COMPLETE event pattern for the instance status of the CloudFormation stack. Configure the rule to invoke the Lambda function.

NEW QUESTION # 318

A company is performing vulnerability scanning for all Amazon EC2 instances across many accounts. The accounts are in an organization in AWS Organizations. Each account's VPCs are attached to a shared transit gateway. The VPCs send traffic to the internet through a central egress VPC. The company has enabled Amazon Inspector in a delegated administrator account and has enabled scanning for all member accounts.

A DevOps engineer discovers that some EC2 instances are listed in the "not scanning" tab in Amazon Inspector.

Which combination of actions should the DevOps engineer take to resolve this issue? (Choose three.)

- A. Grant inspector:StartAssessmentRun permissions to the IAM role that the DevOps engineer is using.
- B. Verify that AWS Systems Manager Agent is installed and is running on the EC2 instances that Amazon Inspector is not scanning.
- C. Configure EC2 Instance Connect for the EC2 instances that Amazon Inspector is not scanning.
- D. Associate the target EC2 instances with instance profiles that grant permissions to communicate with AWS Systems Manager.
- E. Associate the target EC2 instances with security groups that allow outbound communication on port 443 to the AWS Systems Manager service endpoint.
- F. Create a managed-instance activation. Use the Activation Code and the Activation ID to register the EC2 instances.

Answer: A,B,E

NEW QUESTION # 319

A DevOps engineer is setting up an Amazon Elastic Container Service (Amazon ECS) blue/green deployment for an application by using AWS CodeDeploy and AWS CloudFormation. During the deployment window, the application must be highly available and CodeDeploy must shift 10% of traffic to a new version of the application every minute until all traffic is shifted.

Which configuration should the DevOps engineer add in the CloudFormation template to meet these requirements?

- A. Add the AWS::CodeDeployBlueGreen transform and the AWS::CodeDeploy::BlueGreen hook parameter with the ECSCanary10Percent5Minutes deployment configuration.
- B. Add an AppSpec file with the CodeDeployDefault.ECSLinear10PercentEvery1Minutes deployment configuration.
- C. Add an AppSpec file with the ECSCanary10Percent5Minutes deployment configuration.
- D. Add the AWS::CodeDeployBlueGreen transform and the AWS::CodeDeploy::BlueGreen hook parameter with the CodeDeployDefault.ECSLinear10PercentEvery1 Minutes deployment configuration.

Answer: D

Explanation:

Step 1: Using AWS CloudFormation with ECS Blue/Green DeploymentsThe requirement is to implement an ECS blue/green deployment where traffic is shifted gradually. AWS CodeDeploy supports such blue/green deployments with predefined configurations, like ECSLinear10PercentEvery1Minute, which shifts 10% of traffic every minute.

* Action:Use the AWS::CodeDeployBlueGreen transform and the appropriate hooks in the CloudFormation template. The ECSLinear10PercentEvery1Minute deployment configuration meets the requirement of shifting 10% of traffic every minute.

* Why:The transform and hook parameters in CloudFormation are essential for configuring the blue /green deployment with the desired traffic-shifting behavior.

NEW QUESTION # 320

A company is launching an application. The application must use only approved AWS services. The account that runs the application was created less than 1 year ago and is assigned to an AWS Organizations OU.

The company needs to create a new Organizations account structure. The account structure must have an appropriate SCP that supports the use of only services that are currently active in the AWS account.

The company will use AWS Identity and Access Management (IAM) Access Analyzer in the solution.

Which solution will meet these requirements?

- A. Create an SCP that denies the services that IAM Access Analyzer identifies. Create an OU for the account. Move the

account into the new OIJ. Attach the new SCP to the new OU.

- B. Create an SCP that allows the services that IAM Access Analyzer identifies. Attach the new SCP to the organization's root.
- C. Create an SCP that allows the services that IAM Access Analyzer identifies. Create an OU for the account. Move the account into the new OU. Attach the new SCP to the new OU. Detach the default FullAWSAccess SCP from the new OU.
- D. Create an SCP that allows the services that IAM Access Analyzer identifies. Create an OU for the account. Move the account into the new OU. Attach the new SCP to the management account. Detach the default FullAWSAccess SCP from the new OU.

Answer: C

Explanation:

To meet the requirements of creating a new Organizations account structure with an appropriate SCP that supports the use of only services that are currently active in the AWS account, the company should use the following solution:

Create an SCP that allows the services that IAM Access Analyzer identifies. IAM Access Analyzer is a service that helps identify potential resource-access risks by analyzing resource-based policies in the AWS environment. IAM Access Analyzer can also generate IAM policies based on access activity in the AWS CloudTrail logs. By using IAM Access Analyzer, the company can create an SCP that grants only the permissions that are required for the application to run, and denies all other services. This way, the company can enforce the use of only approved AWS services and reduce the risk of unauthorized access¹² Create an OU for the account. Move the account into the new OU. An OU is a container for accounts within an organization that enables you to group accounts that have similar business or security requirements. By creating an OU for the account, the company can apply policies and manage settings for the account as a group. The company should move the account into the new OU to make it subject to the policies attached to the OU³ Attach the new SCP to the new OU. Detach the default FullAWSAccess SCP from the new OU. An SCP is a type of policy that specifies the maximum permissions for an organization or organizational unit (OU). By attaching the new SCP to the new OU, the company can restrict the services that are available to all accounts in that OU, including the account that runs the application. The company should also detach the default FullAWSAccess SCP from the new OU, because this policy allows all actions on all AWS services and might override or conflict with the new SCP⁴⁵ The other options are not correct because they do not meet the requirements or follow best practices. Creating an SCP that denies the services that IAM Access Analyzer identifies is not a good option because it might not cover all possible services that are not approved or required for the application. A deny policy is also more difficult to maintain and update than an allow policy. Creating an SCP that allows the services that IAM Access Analyzer identifies and attaching it to the organization's root is not a good option because it might affect other accounts and OUs in the organization that have different service requirements or approvals. Creating an SCP that allows the services that IAM Access Analyzer identifies and attaching it to the management account is not a valid option because SCPs cannot be attached directly to accounts, only to OUs or roots.

References:

- 1: Using AWS Identity and Access Management Access Analyzer - AWS Identity and Access Management
- 2: Generate a policy based on access activity - AWS Identity and Access Management
- 3: Organizing your accounts into OUs - AWS Organizations
- 4: Service control policies - AWS Organizations
- 5: How SCPs work - AWS Organizations

NEW QUESTION # 321

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