

Free PDF Quiz DOP-C02 - AWS Certified DevOps Engineer - Professional Newest Training Kit



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Amazon DOP-C02 certification exam consists of multiple-choice and multiple-response questions, which are designed to test the individual's knowledge and skills in various areas of DevOps, such as continuous integration and delivery, infrastructure as code, monitoring, and logging. DOP-C02 exam also covers topics related to security, compliance, and automation, which are critical components of any DevOps practice.

Amazon DOP-C02 exam is designed to test the skills and knowledge of professionals who work in DevOps roles. AWS Certified DevOps Engineer - Professional certification is intended for individuals who have a deep understanding of the AWS platform and are experienced in delivering and managing applications on AWS. DOP-C02 Exam is designed to validate the skills needed to manage, operate, and deploy applications on AWS, and to demonstrate expertise in DevOps practices and methodologies.

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Amazon AWS Certified DevOps Engineer - Professional Sample Questions (Q315-Q320):

NEW QUESTION # 315

A rapidly growing company wants to scale for developer demand for AWS development environments. Development environments are created manually in the AWS Management Console. The networking team uses AWS CloudFormation to manage the networking infrastructure, exporting stack output values for the Amazon VPC and all subnets. The development environments have common standards, such as Application Load Balancers, Amazon EC2 Auto Scaling groups, security groups, and Amazon DynamoDB tables.

To keep up with demand, the DevOps engineer wants to automate the creation of development environments. Because the infrastructure required to support the application is expected to grow, there must be a way to easily update the deployed infrastructure. CloudFormation will be used to create a template for the development environments.

Which approach will meet these requirements and quickly provide consistent AWS environments for developers?

- A. Use Fn::ImportValue intrinsic functions in the Parameters section of the root template to retrieve Virtual Private Cloud (VPC) and subnet values. Define the development resources in the order they need to be created in the CloudFormation nested stacks. Use the CreateChangeSet, and ExecuteChangeSet commands to update existing development environments.
- B. Use nested stacks to define common infrastructure components. To access the exported values, use TemplateURL to reference the networking team's template. To retrieve Virtual Private Cloud (VPC) and subnet values, use Fn::ImportValue intrinsic functions in the Parameters section of the root template. Use the CreateChangeSet and ExecuteChangeSet commands to update existing development environments.
- **C. Use nested stacks to define common infrastructure components. Use Fn::ImportValue intrinsic functions with the resources of the nested stack to retrieve Virtual Private Cloud (VPC) and subnet values. Use the CreateChangeSet and ExecuteChangeSet commands to update existing development environments.**
- D. Use Fn::ImportValue intrinsic functions in the Resources section of the template to retrieve Virtual Private Cloud (VPC) and subnet values. Use CloudFormation StackSets for the development environments, using the Count input parameter to indicate the number of environments needed. Use the UpdateStackSet command to update existing development environments.

Answer: C

NEW QUESTION # 316

A business has an application that consists of five independent AWS Lambda functions.

The DevOps engineer has built a CI/CD pipeline using AWS CodePipeline and AWS CodeBuild that builds tests packages and deploys each Lambda function in sequence. The pipeline uses an Amazon EventBridge rule to ensure the pipeline starts as quickly as possible after a change is made to the application source code.

After working with the pipeline for a few months the DevOps engineer has noticed the pipeline takes too long to complete.

What should the DevOps engineer implement to BEST improve the speed of the pipeline?

- A. Create a custom CodeBuild execution environment that includes a symmetric multiprocessing configuration to run the builds in parallel.
- **B. Modify the CodePipeline configuration to run actions for each Lambda function in parallel by specifying the same runorder.**
- C. Modify each CodeBuild project to run within a VPC and use dedicated instances to increase throughput.
- D. Modify the CodeBuild projects within the pipeline to use a compute type with more available network throughput.

Answer: B

Explanation:

Explanation

<https://docs.aws.amazon.com/codepipeline/latest/userguide/reference-pipeline-structure.html> AWS doc: "To specify parallel actions, use the same integer for each action you want to run in parallel. For example, if you want three actions to run in sequence in a stage, you would give the first action the runOrder value of 1, the second action the runOrder value of 2, and the third the runOrder value of 3. However, if you want the second and third actions to run in parallel, you would give the first action the runOrder value of 1 and both the second and third actions the runOrder value of 2."

NEW QUESTION # 317

A company has a workflow that generates a file for each of the company's products and stores the files in a production environment Amazon S3 bucket. The company's users can access the S3 bucket.

Each file contains a product ID. Product IDs for products that have not been publicly announced are prefixed with a specific UUID. Product IDs are 12 characters long. IDs for products that have not been publicly announced begin with the letter P.

The company does not want information about products that have not been publicly announced to be available in the production environment S3 bucket.

Which solution will meet these requirements?

- **A. Create a new staging S3 bucket. Generate all files in the new staging bucket. Create an Amazon Macie custom data identifier to identify product IDs in the new bucket that begin with the specific UUID. Launch an Amazon Macie sensitive data discovery job with the custom data identifier. Copy all files that do not have a Macie finding to the production S3 bucket.**
- B. Create an Amazon Macie custom data identifier to identify product IDs in the production bucket that begin with the specific UUID. Launch an Amazon Macie sensitive data discovery job with the custom data identifier. Remove all files that have a Macie finding from the production S3 bucket.

- C. Create an Amazon Macie sensitive data discovery job with a managed data identifier. Remove all files that have a Macie finding from the production S3 bucket.
- D. Create a new staging S3 bucket. Generate all files in the new staging bucket. Launch an Amazon Macie sensitive data discovery job with a managed data identifier. Copy all files that do not have a Macie finding to the production S3 bucket.

Answer: A

Explanation:

The requirement is to prevent any product files containing unannounced product IDs (prefixed with a specific UUID) from being stored in the production S3 bucket that users can access.

To achieve this, a best practice is to use a staging bucket as a control point before files go to production, combined with Amazon Macie's data classification capabilities.

* Creating a custom data identifier in Amazon Macie allows precise detection of product IDs starting with the specific UUID, which default managed identifiers will not detect.

* By running a Macie sensitive data discovery job on the staging bucket, you can identify files containing these sensitive product IDs.

* Only files without findings (i.e., files that do not contain unannounced product IDs) are copied to the production bucket, ensuring no sensitive information is exposed. This approach aligns with AWS best practices for data classification and staged deployment workflows, maximizing control and reducing risk. Using Macie on the production bucket directly (options B and D) risks exposing sensitive data before detection and deletion. Option C uses managed data identifiers, which will likely not detect the custom UUID prefix pattern.

Reference from AWS Official Documentation and Study Guide:

* Amazon Macie Custom Data Identifiers: " You can create custom data identifiers in Amazon Macie to find sensitive data that is unique to your organization. " (Amazon Macie User Guide)

* Data Security Best Practices: " Use staging environments to inspect and sanitize data before moving it to production to reduce exposure risks. " (AWS Security Best Practices)

NEW QUESTION # 318

To run an application, a DevOps engineer launches an Amazon EC2 instance with public IP addresses in a public subnet. A user data script obtains the application artifacts and installs them on the instances upon launch. A change to the security classification of the application now requires the instances to run with no access to the internet. While the instances launch successfully and show as healthy, the application does not seem to be installed.

Which of the following should successfully install the application while complying with the new rule?

- A. Create a security group for the application instances and allow only outbound traffic to the artifact repository. Remove the security group rule once the install is complete.
- B. Set up a NAT gateway. Deploy the EC2 instances to a private subnet. Update the private subnet's route table to use the NAT gateway as the default route.
- C. Launch the instances in a public subnet with Elastic IP addresses attached. Once the application is installed and running, run a script to disassociate the Elastic IP addresses afterwards.
- D. Publish the application artifacts to an Amazon S3 bucket and create a VPC endpoint for S3. Assign an IAM instance profile to the EC2 instances so they can read the application artifacts from the S3 bucket.

Answer: D

Explanation:

EC2 instances running in private subnets of a VPC can now have controlled access to S3 buckets, objects, and API functions that are in the same region as the VPC. You can use an S3 bucket policy to indicate which VPCs and which VPC Endpoints have access to your S3 buckets 1- <https://aws.amazon.com/pt/blogs/aws/new-vpc-endpoint-for-amazon-s3/>

NEW QUESTION # 319

A security team is concerned that a developer can unintentionally attach an Elastic IP address to an Amazon EC2 instance in production. No developer should be allowed to attach an Elastic IP address to an instance. The security team must be notified if any production server has an Elastic IP address at any time How can this task be automated?

- A. Create an AWS Config rule to check that all production instances have EC2 IAM roles that include deny associate-address permissions Verify whether there is an Elastic IP address associated with any instance, and alert the security team if an instance has an Elastic IP address associated with it.
- B. Use Amazon Athena to query AWS CloudTrail logs to check for any associate-address attempts Create an AWS

Lambda function to disassociate the Elastic IP address from the instance, and alert the security team

- C. Ensure that all IAM groups associated with developers do not have associate-address permissions. Create a scheduled AWS Lambda function to check whether an Elastic IP address is associated with any instance tagged as production, and alert the security team if an instance has an Elastic IP address associated with it
- D. Attach an IAM policy to the developers' IAM group to deny associate-address permissions Create a custom AWS Config rule to check whether an Elastic IP address is associated with any instance tagged as production, and alert the security team

Answer: D

Explanation:

To prevent developers from unintentionally attaching an Elastic IP address to an Amazon EC2 instance in production, the best approach is to use IAM policies and AWS Config rules. By attaching an IAM policy that denies the associate-address permission to the developers' IAM group, you ensure that developers cannot perform this action. Additionally, creating a custom AWS Config rule to check for Elastic IP addresses associated with instances tagged as production provides ongoing monitoring. If the rule detects an Elastic IP address, it can trigger an alert to notify the security team. This method is proactive and enforces the necessary permissions while also providing a mechanism for detection and notification. Reference: from Amazon DevOps sources

NEW QUESTION # 320

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