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Um die Amazon DOP-C02-Zertifizierung zu erlangen, müssen Kandidaten eine anspruchsvolle zweiteilige Prüfung bestehen, die eine Vielzahl von Themen im Zusammenhang mit DevOps und AWS abdeckt. Der erste Teil der Prüfung konzentriert sich auf Kern-DevOps-Konzepte wie kontinuierliche Integration, kontinuierliche Bereitstellung und Infrastruktur als Code. Der zweite Teil der Prüfung testet die Kenntnisse der Kandidaten über AWS-Dienste und wie sie effektiv zur Umsetzung von DevOps-Praktiken eingesetzt werden können.

>> DOP-C02 Deutsch <<

DOP-C02 Online Prüfungen, DOP-C02 Simulationsfragen

Bereiten Sie sich jetzt auf Amazon DOP-C02 Prüfung? Auf der offiziellen Webseite unserer ExamFragen wird alle Ihrer Bedarf an der Vorbereitung auf Amazon DOP-C02 erfüllt. Insofern unsere Marke Ihnen bekannt ist, können Sie sogleich die Prüfungsunterlagen der Amazon DOP-C02 nach Ihrem Bedarf innerhalb einigen Minuten erhalten. Gesicherte Zahlungsmittel, zuverlässige Kundendienste sowie die Produkte auf hohem Standard, diese Vorteilen können alle zusammen Ihnen helfen, zufriedenstellende Leistungen zu bekommen.

Amazon AWS Certified DevOps Engineer - Professional DOP-C02 Prüfungsfragen mit Lösungen (Q208-Q213):

208. Frage

A company uses Amazon RDS for Microsoft SQL Server as its primary database. They need high availability within and across AWS Regions, with an RPO <1 min and RTO <10 min. Route 53 CNAME is used for the DB endpoint and must redirect to standby during failover.

Which solution meets these requirements?

- A. Deploy an Amazon RDS for SQL Server Multi-AZ DB cluster with cross-Region read replicas. Use automation to promote replica and update Route 53.
- B. Deploy RDS Multi-AZ with snapshots copied every 5 minutes; use Lambda to restore snapshot and update Route 53 on

failover.

- C. Deploy Single-AZ RDS and use AWS Backup for cross-Region backups every 30 seconds. Use automation to restore and update Route 53 during failover.
- D. Deploy Single-AZ RDS and use AWS DMS to continuously replicate to another Region. Use CloudWatch alarms for failover notification.

Antwort: A

Begründung:

* RDS Multi-AZ with cross-Region read replicas provides synchronous replication with near-zero data loss and supports fast failover with RPO < 1 min and RTO < 10 min.

* Automation can promote replicas and update Route 53 CNAME to redirect traffic during failover.

* Options B, C, and D rely on snapshots, backups, or DMS, which cannot guarantee such low RPO/RTO and require manual intervention or complex automation.

References:

Amazon RDS Multi-AZ Deployments

Amazon RDS Cross-Region Read Replicas

209. Frage

A company is using an AWS CodeBuild project to build and package an application. The packages are copied to a shared Amazon S3 bucket before being deployed across multiple AWS accounts.

The buildspec.yml file contains the following:

```
version: 0.2
phases:
  build:
    commands:
      - go build -o myapp
  post_build:
    commands:
      - aws s3 cp --acl authenticated-read myapp s3://artifacts/
```

The DevOps engineer has noticed that anybody with an AWS account is able to download the artifacts.

What steps should the DevOps engineer take to stop this?

- A. Modify the post_build command to use --acl public-read and configure a bucket policy that grants read access to the relevant AWS accounts only.
- B. Modify the post_build command to remove --acl authenticated-read and configure a bucket policy that allows read access to the relevant AWS accounts only.
- C. Configure a default ACL for the S3 bucket that defines the set of authenticated users as the relevant AWS accounts only and grants read-only access.
- D. Create an S3 bucket policy that grants read access to the relevant AWS accounts and denies read access to the principal.

Antwort: B

210. Frage

A DevOps engineer has developed an AWS Lambda function. The Lambda function starts an AWS CloudFormation drift detection operation on all supported resources for a specific CloudFormation stack. The Lambda function then exits its invocation. The DevOps engineer has created an Amazon EventBridge scheduled rule that invokes the Lambda function every hour. An Amazon Simple Notification Service (Amazon SNS) topic already exists in the AWS account. The DevOps engineer has subscribed to the SNS topic to receive notifications. The DevOps engineer needs to receive a notification as soon as possible when drift is detected in this specific stack configuration.

Which solution will meet these requirements?

- A. Configure AWS Config in the account. Use the cloudformation-stack-drift-detection-check managed rule. Create a second EventBridge rule that reacts to a compliance change event for the CloudFormation stack. Configure the SNS topic as

a target of the second EventBridge rule.

- B. Configure the existing EventBridge rule to also target the SNS topic. Configure an SNS subscription filter policy to match the CloudFormation stack. Attach the subscription filter policy to the SNS topic.
- C. Configure Amazon GuardDuty in the account with drift detection for all CloudFormation stacks. Create a second EventBridge rule that reacts to the GuardDuty drift detection event finding for the specific CloudFormation stack. Configure the SNS topic as a target of the second EventBridge rule.
- D. Create a second Lambda function to query the CloudFormation API for the drift detection results for the stack. Configure the second Lambda function to publish a message to the SNS topic. If drift is detected, adjust the existing EventBridge rule to also target the second Lambda function.

Antwort: A

Begründung:

A comprehensive and detailed explanation is:

Option A is incorrect because EventBridge rules cannot filter events based on the message body or attributes of the target service. Therefore, configuring an SNS subscription filter policy to match the CloudFormation stack will not work. The SNS topic will receive all events from the EventBridge rule, regardless of the stack name or drift status.

Option B is incorrect because it introduces unnecessary complexity and cost. Creating a second Lambda function to query the CloudFormation API for the drift detection results is redundant, since CloudFormation already publishes drift detection events to EventBridge. Moreover, invoking two Lambda functions every hour will incur more charges than invoking one.

Option C is incorrect because GuardDuty does not provide drift detection for CloudFormation stacks. GuardDuty is a threat detection service that monitors for malicious activity and unauthorized behavior in AWS accounts and workloads. It does not monitor or report on configuration changes or drifts in CloudFormation stacks.

Option D is correct because it leverages AWS Config and its managed rule for drift detection. AWS Config is a service that enables you to assess, audit, and evaluate the configurations of your AWS resources. It can detect configuration changes and drifts in CloudFormation stacks using the cloudformation-stack-drift-detection-check managed rule. This rule triggers an AWS Config event when a stack drifts from its expected template configuration. By creating a second EventBridge rule that reacts to this event for the specific stack, the DevOps engineer can configure the SNS topic as a target and receive a notification as soon as possible when drift is detected.

References:

AWS Config

Amazon SNS subscription filter policies

Amazon EventBridge rules

211. Frage

A company has an on-premises application that is written in Go. A DevOps engineer must move the application to AWS. The company's development team wants to enable blue/green deployments and perform A/B testing. Which solution will meet these requirements?

- A. Use AWS Elastic Beanstalk to host the application. Store a zipped version of the application in Amazon S3. Use that location to deploy new versions of the application. Use Elastic Beanstalk to manage the deployment options.
- B. Use AWS CodeArtifact to store the application code. Use AWS CodeDeploy to deploy the application to a fleet of Amazon EC2 instances. Use Elastic Load Balancing to distribute the traffic to the EC2 instances. When making changes to the application, upload a new version to CodeArtifact and create a new CodeDeploy deployment.
- C. Deploy the application on an Amazon EC2 instance, and create an AMI of the instance. Use the AMI to create an automatic scaling launch configuration that is used in an Auto Scaling group. Use Elastic Load Balancing to distribute traffic. When changes are made to the application, a new AMI will be created, which will initiate an EC2 instance refresh.
- D. Use Amazon Lightsail to deploy the application. Store the application in a zipped format in an Amazon S3 bucket. Use this zipped version to deploy new versions of the application to Lightsail. Use Lightsail deployment options to manage the deployment.

Antwort: A

212. Frage

A company has deployed a new platform that runs on Amazon Elastic Kubernetes Service (Amazon EKS).

The new platform hosts web applications that users frequently update. The application developers build the Docker images for the applications and deploy the Docker images manually to the platform.

The platform usage has increased to more than 500 users every day. Frequent updates, building the updated Docker images for the

applications, and deploying the Docker images on the platform manually have all become difficult to manage. The company needs to receive an Amazon Simple Notification Service (Amazon SNS) notification if Docker image scanning returns any HIGH or CRITICAL findings for operating system or programming language package vulnerabilities. Which combination of steps will meet these requirements? (Select TWO.)

- A. Create an AWS CodeCommit repository to store the Dockerfile and Kubernetes deployment files. Create a pipeline in AWS CodePipeline. Use an Amazon S3 event to invoke the pipeline when a newer version of the Dockerfile is committed. Add a step to the pipeline to initiate the AWS CodeBuild project.
- **B. Create an AWS CodeCommit repository to store the Dockerfile and Kubernetes deployment files. Create a pipeline in AWS CodePipeline. Use an Amazon EventBridge event to invoke the pipeline when a newer version of the Dockerfile is committed. Add a step to the pipeline to initiate the AWS CodeBuild project.**
- **C. Create an AWS CodeBuild project that builds the Docker images and stores the Docker images in an Amazon Elastic Container Registry (Amazon ECR) repository. Turn on enhanced scanning for the ECR repository. Create an Amazon EventBridge rule that monitors ECR image scan events. Configure the EventBridge rule to send an event to an SNS topic when the finding-severity-counts parameter is more than 0 at a CRITICAL or HIGH level.**
- D. Create an AWS CodeBuild project that builds the Docker images and stores the Docker images in an Amazon Elastic Container Registry (Amazon ECR) repository. Turn on basic scanning for the ECR repository. Create an Amazon EventBridge rule that monitors Amazon GuardDuty events. Configure the EventBridge rule to send an event to an SNS topic when the finding-severity-counts parameter is more than 0 at a CRITICAL or HIGH level.
- E. Create an AWS CodeBuild project that scans the Dockerfile. Configure the project to build the Docker images and store the Docker images in an Amazon Elastic Container Registry (Amazon ECR) repository if the scan is successful. Configure an SNS topic to provide notification if the scan returns any vulnerabilities.

Antwort: B,C

Begründung:

Step 1: Automate Docker Image Deployment using AWS CodePipeline
The first challenge is the manual process of building and deploying Docker images. To address this, you can use AWS CodePipeline to automate the process. AWS CodePipeline integrates with CodeCommit (for source code and Dockerfile storage) and CodeBuild (to build Docker images and store them in Amazon Elastic Container Registry (ECR)).

* Action: Create an AWS CodeCommit repository to store the Dockerfile and Kubernetes deployment files. Then, create a pipeline in AWS CodePipeline that triggers on new commits via an Amazon EventBridge event.

* Why: This automation significantly reduces the manual effort of building and deploying Docker images when updates are made to the codebase.

213. Frage

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