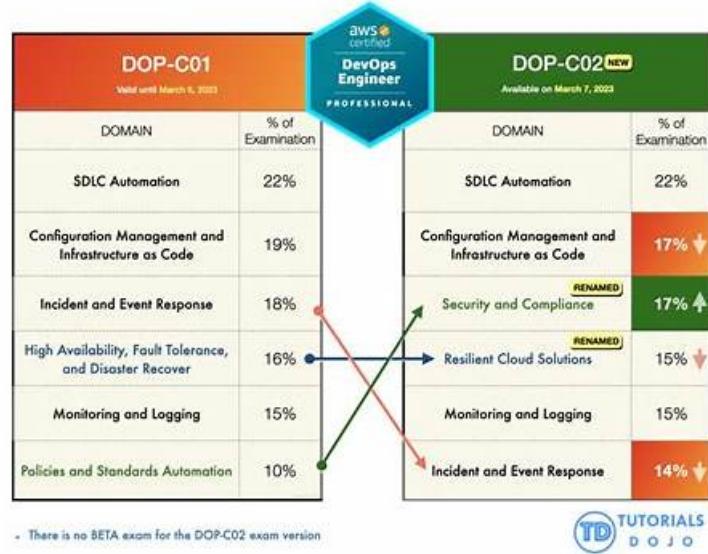


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Amazon DOP-C02 Certification is highly valued by employers and can help candidates stand out in a competitive job market. By earning this certification, DevOps professionals demonstrate their ability to design, deploy, and manage highly scalable, fault-tolerant, and secure applications on the AWS platform. In addition, the certification demonstrates a commitment to continuous learning and professional development, which is essential in today's fast-paced technology industry.

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The Amazon DOP-C02 Exam covers a variety of topics and skills related to DevOps, including continuous integration and delivery (CI/CD), monitoring and logging, infrastructure as code, security, and automation. It is intended for individuals who have experience working with AWS services and tools and have a solid understanding of DevOps principles and practices.

Amazon AWS Certified DevOps Engineer - Professional Sample Questions (Q397-Q402):

NEW QUESTION # 397

A DevOps engineer is working on a project that is hosted on Amazon Linux and has failed a security review. The DevOps manager has been asked to review the company buildspec. yaml file for an AWS CodeBuild project and provide recommendations. The buildspec. yaml file is configured as follows:

What changes should be recommended to comply with AWS security best practices? (Select THREE.)

- A. Move the environment variables to the 'db.-deploy-bucket' Amazon S3 bucket, add a prebuild stage to download then export the variables.
- B. Store the `thedb_password` as a `SecureString` value in AWS Systems Manager Parameter Store and then remove `thedb_password` from the environment variables.
- C. Add a post-build command to remove the temporary files from the container before termination to ensure they cannot be seen by other CodeBuild users.
- D. Use AWS Systems Manager run command versus `sec` and `ssh` commands directly to the instance.
- E. Update the CodeBuild project role with the necessary permissions and then remove the AWS credentials from the environment variable.

Answer: B,D,E

Explanation:

B: Update the CodeBuild project role with the necessary permissions and then remove the AWS credentials from the environment variable. C. Store the `DB_PASSWORD` as a `SecureString` value in AWS Systems Manager Parameter Store and then remove the `DB_PASSWORD` from the environment variables. E. Use AWS Systems Manager run command versus `scp` and `ssh` commands directly to the instance.

NEW QUESTION # 398

A growing company manages more than 50 accounts in an organization in AWS Organizations. The company has configured its applications to send logs to Amazon CloudWatch Logs.

A DevOps engineer needs to aggregate logs so that the company can quickly search the logs to respond to future security incidents. The DevOps engineer has created a new AWS account for centralized monitoring.

Which combination of steps should the DevOps engineer take to make the application logs searchable from the monitoring account? (Select THREE.)

- A. In the monitoring account, attach the `CloudWatchLogsReadOnlyAccess` AWS managed policy to an IAM role that can be assumed to search the logs.
- B. In the monitoring account, download an AWS CloudFormation template from CloudWatch to use in Organizations. Use CloudFormation StackSets in the organization's management account to deploy the CloudFormation template to the entire organization.
- C. Create an IAM role in the monitoring account. Attach a trust policy that allows `logs.amazonaws.com` to perform the `iamCreateSink` action if the `aws:PrincipalOrgId` property is equal to the organization ID.
- D. Create an AWS CloudFormation template that defines an IAM role. Configure the role to allow `logs.amazonaws.com` to perform the `logs:Link` action if the `aws:ResourceAccount` property is equal to the monitoring account ID. Use CloudFormation StackSets in the organization's management account to deploy the CloudFormation template to the entire organization.
- E. In the organization's management account, enable the logging policies for the organization.
- F. Use CloudWatch Observability Access Manager in the monitoring account to create a sink. Allow logs to be shared with the monitoring account. Configure the monitoring account data selection to view the Observability data from the organization ID.

Answer: A,C,D

Explanation:

To aggregate logs from multiple accounts in an organization, the DevOps engineer needs to create a cross- account subscription1 that allows the monitoring account to receive log events from the sharing accounts.

To enable cross-account subscription, the DevOps engineer needs to create an IAM role in each sharing account that grants permission to CloudWatch Logs to link the log groups to the destination in the monitoring account2. This can be done using a CloudFormation template and StackSets3 to deploy the role to all accounts in the organization.

The DevOps engineer also needs to create an IAM role in the monitoring account that allows CloudWatch Logs to create a sink for receiving log events from other accounts4. The role must have a trust policy that specifies the organization ID as a condition.

Finally, the DevOps engineer needs to attach the `CloudWatchLogsReadOnlyAccess` policy5 to an IAM role in the monitoring account that can be used to search the logs from the cross-account subscription.

1: Cross-account log data sharing with subscriptions 2: Create an IAM role for CloudWatch Logs in each sharing account 3: AWS CloudFormation StackSets 4: Create an IAM role for CloudWatch Logs in your monitoring account 5: `CloudWatchLogsReadOnlyAccess` policy

NEW QUESTION # 399

A company's DevOps engineer is creating an AWS Lambda function to process notifications from an Amazon Simple Notification Service (Amazon SNS) topic. The Lambda function will process the notification messages and will write the contents of the notification messages to an Amazon RDS Multi-AZ DB instance.

During testing a database administrator accidentally shut down the DB instance. While the database was down the company lost several of the SNS notification messages that were delivered during that time.

The DevOps engineer needs to prevent the loss of notification messages in the future. Which solutions will meet this requirement? (Select TWO.)

- A. Configure an Amazon Simple Queue Service (Amazon SQS) dead-letter queue for the SNS topic.
- B. Replace the SNS topic with an Amazon EventBridge event bus. Configure an EventBridge rule on the new event bus to invoke the Lambda function for each event.
- C. Subscribe an Amazon Simple Queue Service (Amazon SQS) queue to the SNS topic. Configure the Lambda function to process messages from the SQS queue.
- D. Configure an Amazon Simple Queue Service (Amazon SQS) queue as a destination of the Lambda function.
- E. Replace the RDS Multi-AZ DB instance with an Amazon DynamoDB table.

Answer: A,C

Explanation:

These solutions will meet the requirement because they will prevent the loss of notification messages in the future. An Amazon SQS queue is a service that provides a reliable, scalable, and secure message queue for asynchronous communication between distributed components. You can use an SQS queue to buffer messages from an SNS topic and ensure that they are delivered and processed by a Lambda function, even if the function or the database is temporarily unavailable.

Option C will configure an SQS dead-letter queue for the SNS topic. A dead-letter queue is a queue that receives messages that could not be delivered to any subscriber after a specified number of retries. You can use a dead-letter queue to store and analyze failed messages, or to reprocess them later. This way, you can avoid losing messages that could not be delivered to the Lambda function due to network errors, throttling, or other issues.

Option D will subscribe an SQS queue to the SNS topic and configure the Lambda function to process messages from the SQS queue. This will decouple the SNS topic from the Lambda function and provide more flexibility and control over the message delivery and processing. You can use an SQS queue to store messages from the SNS topic until they are ready to be processed by the Lambda function, and also to retry processing in case of failures. This way, you can avoid losing messages that could not be processed by the Lambda function due to database errors, timeouts, or other issues.

NEW QUESTION # 400

A company's developers use Amazon EC2 instances as remote workstations. The company is concerned that users can create or modify EC2 security groups to allow unrestricted inbound access.

A DevOps engineer needs to develop a solution to detect when users create unrestricted security group rules. The solution must detect changes to security group rules in near real time, remove unrestricted rules, and send email notifications to the security team. The DevOps engineer has created an AWS Lambda function that checks for security group ID from input, removes rules that grant unrestricted access, and sends notifications through Amazon Simple Notification Service (Amazon SNS).

What should the DevOps engineer do next to meet the requirements?

- A. Create an Amazon EventBridge scheduled rule to invoke the Lambda function. Define a schedule pattern that runs the Lambda function every hour.
- B. Create an Amazon EventBridge event rule that has the default event bus as the source. Define the rule's event pattern to match EC2 security group creation and modification events. Configure the rule to invoke the Lambda function.
- C. Create an Amazon EventBridge custom event bus that subscribes to events from all AWS services. Configure the Lambda function to be invoked by the custom event bus.
- D. Configure the Lambda function to be invoked by the SNS topic. Create an AWS CloudTrail subscription for the SNS topic. Configure a subscription filter for security group modification events.

Answer: B

NEW QUESTION # 401

A company runs a development environment website and database on an Amazon EC2 instance that uses Amazon Elastic Block Store (Amazon EBS) storage. The company wants to make the instance more resilient to underlying hardware issues. The company wants to automatically recover the EC2 instance if AWS determines the instance has lost network connectivity.

Which solution will meet these requirements?

- A. Create an Amazon CloudWatch alarm for the NetworkOut metric. Add an EC2 action to recover the instance when the alarm state is in INSUFFICIENT_DATA.
- B. Add the EC2 instance to an Auto Scaling group. Set the minimum, maximum, and desired capacity to 1.
- C. Create an Amazon CloudWatch alarm for the StatusCheckFailed_System metric. Add an EC2 action to recover the instance when the alarm state is in ALARM.
- D. Add the EC2 instance to an Auto Scaling group. Configure a lifecycle hook to detach the EBS volume if the EC2 instance shuts down or terminates.

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract of DevOps Engineer documents only:

Configure a CloudWatch alarm on `StatusCheckFailed_System` and set the EC2 recovery action. Instance recovery automatically recovers the instance on impaired hardware while preserving the instance ID, private IPs, EBS volumes, and metadata.

NEW QUESTION # 402

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