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The Amazon DOP-C02 exam covers a wide range of topics, including provisioning and managing infrastructure using AWS services like EC2, RDS, and Elastic Beanstalk, designing and implementing scalable, fault-tolerant systems, and implementing and managing continuous integration and continuous delivery pipelines using tools like CodePipeline and CodeDeploy. Candidates are also tested on their ability to monitor and troubleshoot applications and infrastructure using AWS tools like CloudWatch and CloudTrail.

The DOP-C02 exam is an updated version of the previous AWS Certified DevOps Engineer - Professional certification, which was first introduced in 2018. The new version of the exam reflects the latest trends and best practices in DevOps and AWS technologies. DOP-C02 Exam consists of 75 multiple-choice and multiple-response questions, and the candidate has 180 minutes to complete it. To pass the exam, the candidate must score at least 750 out of 1000 points. AWS Certified DevOps Engineer - Professional certification is valid for three years, after which the candidate must recertify to maintain their credentials.

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Amazon AWS Certified DevOps Engineer - Professional Sample Questions (Q294-Q299):

NEW QUESTION # 294

A highly regulated company has a policy that DevOps engineers should not log in to their Amazon EC2 instances except in emergencies. If a DevOps engineer does log in the security team must be notified within

15 minutes of the occurrence.

Which solution will meet these requirements'?

- A. Install the Amazon Inspector agent on each EC2 instance Subscribe to Amazon EventBridge notifications Invoke an AWS Lambda function to check if a message is about user logins If it is send a notification to the security team using Amazon SNS.
- B. Set up a script on each Amazon EC2 instance to push all logs to Amazon S3 Set up an S3 event to invoke an AWS Lambda function which invokes an Amazon Athena query to run. The Athena query checks for logins and sends the output to the security team using Amazon SNS.
- **C. Install the Amazon CloudWatch agent on each EC2 instance Configure the agent to push all logs to Amazon CloudWatch Logs and set up a CloudWatch metric filter that searches for user logins. If a login is found send a notification to the security team using Amazon SNS.**
- D. Set up AWS CloudTrail with Amazon CloudWatch Logs. Subscribe CloudWatch Logs to Amazon Kinesis Attach AWS Lambda to Kinesis to parse and determine if a log contains a user login If it does, send a notification to the security team using Amazon SNS.

Answer: C

Explanation:

<https://aws.amazon.com/blogs/security/how-to-monitor-and-visualize-failed-ssh-access-attempts-to-amazon-ec2-linux-instances/>

NEW QUESTION # 295

A company is deploying a new application that uses Amazon EC2 instances. The company needs a solution to query application logs and AWS account API activity Which solution will meet these requirements?

- A. Use the Amazon CloudWatch agent to send logs from the EC2 instances to Amazon CloudWatch Logs Configure AWS CloudTrail to deliver the API logs to Amazon S3 Use CloudWatch to query both sets of logs.
- B. Use the Amazon CloudWatch agent to send logs from the EC2 instances to Amazon Kinesis Configure AWS CloudTrail to deliver the API logs to Kinesis Use Kinesis to load the data into Amazon Redshift Use Amazon Redshift to query both sets of logs.
- **C. Use the Amazon CloudWatch agent to send logs from the EC2 instances to Amazon S3 Use AWS CloudTrail to deliver the API logs to Amazon S3 Use Amazon Athena to query both sets of logs in Amazon S3.**
- D. Use the Amazon CloudWatch agent to send logs from the EC2 instances to Amazon CloudWatch Logs Configure AWS CloudTrail to deliver the API logs to CloudWatch Logs Use CloudWatch Logs Insights to query both sets of logs.

Answer: C

Explanation:

Explanation

This solution will meet the requirements because it will use Amazon S3 as a common data lake for both the application logs and the API logs. Amazon S3 is a service that provides scalable, durable, and secure object storage for any type of data. You can use the Amazon CloudWatch agent to send logs from your EC2 instances to S3 buckets, and use AWS CloudTrail to deliver the API logs to S3 buckets as well. You can also use Amazon Athena to query both sets of logs in S3 using standard SQL, without loading or transforming them. Athena is a serverless interactive query service that allows you to analyze data in S3 using a variety of data formats, such as JSON, CSV, Parquet, and ORC.

NEW QUESTION # 296

A DevOps team manages infrastructure for an application. The application uses long-running processes to process items from an Amazon Simple Queue Service (Amazon SQS) queue. The application is deployed to an Auto Scaling group.

The application recently experienced an issue where items were taking significantly longer to process. The queue exceeded the expected size, which prevented various business processes from functioning properly.

The application records all logs to a third-party tool.

The team is currently subscribed to an Amazon Simple Notification Service (Amazon SNS) topic that the team uses for alerts. The team needs to be alerted if the queue exceeds the expected size.

Which solution will meet these requirements with the MOST operational efficiency?

- A. Create an Amazon CloudWatch metric alarm with a period of 1 hour and a static threshold to alarm if the average of the ApproximateNumberOfMessagesDelayed metric is greater than the expected value. Configure the alarm to notify the SNS topic.
- B. Create an AWS Lambda function that checks the ApproximateNumberOfMessagesDelayed SQS queue attribute and

compares the value to a defined expected size in the function. Create an Amazon EventBridge rule that is scheduled to run every 5 minutes and that invokes the Lambda function. When the `ApproximateNumberOfMessagesDelayed` SQS queue attribute exceeds the expected size, send a notification the SNS topic.

- C. Create an AWS Lambda function that retrieves the `ApproximateNumberOfMessages` SQS queue attribute value and publishes it as a new CloudWatch custom metric. Create an Amazon EventBridge rule that is scheduled to run every 5 minutes and that invokes the Lambda function. Configure a CloudWatch metrics alarm with a period of 1 hour and a static threshold to alarm if the sum of the new custom metric is greater than the expected value.
- D. Create an Amazon CloudWatch metric alarm with a period of 1 hour and a static threshold to alarm if the sum of the `ApproximateNumberOfMessagesVisible` metric is greater than the expected value. Configure the alarm to notify the SNS topic.

Answer: D

Explanation:

The Amazon SQS service publishes several standard CloudWatch metrics by default, including `ApproximateNumberOfMessagesVisible`, which represents the number of messages available for retrieval from the queue (i.e., the number of messages waiting to be processed). This is the primary metric to monitor queue backlog and processing delays.

* Using `ApproximateNumberOfMessagesVisible` to monitor the visible messages in the queue gives a direct and near real-time indication of processing delays or backlog.

* CloudWatch metrics are automatically collected and available without the need to create custom metrics or Lambda functions, which increases operational efficiency by reducing complexity and maintenance overhead.

* Setting a CloudWatch alarm on this metric with a static threshold and a reasonable evaluation period (such as 1 hour) is sufficient to alert the team when the queue grows beyond an expected size.

* The alarm can be directly configured to send notifications to an existing SNS topic, maintaining seamless integration with the team's alerting mechanisms.

The `ApproximateNumberOfMessagesDelayed` metric refers to messages that are delayed and not available for processing yet due to delay settings, which is not the direct backlog that causes business process delays.

Options C and D introduce unnecessary complexity by requiring Lambda functions and custom metrics or scheduled invocations, which reduce operational efficiency compared to using built-in CloudWatch metrics and alarms.

Reference from AWS Official Documentation and Study Guide:

* Amazon SQS Monitoring with CloudWatch Metrics: " Amazon SQS automatically sends metrics to CloudWatch, including `ApproximateNumberOfMessagesVisible`, which shows the number of messages available for retrieval. " (Source: Amazon SQS Monitoring - AWS Documentation)

* Setting CloudWatch Alarms for SQS Queues: " You can create CloudWatch alarms on SQS metrics such as `ApproximateNumberOfMessagesVisible` to receive notifications when the queue size exceeds a threshold. " (Source: Amazon CloudWatch Alarms - AWS Documentation)

* AWS DevOps Engineer Professional Exam Guide: " Efficient alerting for queue backlogs should leverage native CloudWatch metrics to minimize operational overhead. " (Source: Official AWS Certified DevOps Engineer Professional Study Guide)

NEW QUESTION # 297

A company is using the AWS Cloud Development Kit (AWS CDK) to develop a microservices-based application. The company needs to create reusable infrastructure components for three environments:

development, staging, and production. The components must include networking resources, database resources, and serverless compute resources.

The company must implement a solution that provides consistent infrastructure across environments while offering the option for environment-specific customizations. The solution also must minimize code duplication.

Which solution will meet these requirements with the LEAST development overhead?

- A. Create custom Level 1 (L1) constructs out of Level 2 (L2) constructs where repeatable patterns exist. Create a single set of deployment stacks that takes the environment name as an argument upon instantiation. Deploy CDK applications for each environment.
- B. Create custom Level 3 (L3) constructs out of Level 2 (L2) constructs where repeatable patterns exist. Create a single set of deployment stacks that takes the environment name as an argument upon instantiation. Deploy CDK applications for each environment.
- C. Create custom Level 1 (L1) constructs out of Level 2 (L2) constructs where repeatable patterns exist. Create separate deployment stacks for each environment. Use the CDK context command to determine which stacks to run when deploying to each environment.
- D. Create custom Level 3 (L3) constructs out of Level 2 (L2) constructs where repeatable patterns exist. Create separate deployment stacks for each environment. Use the CDK context command to determine which stacks to run when deploying to each environment.

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract of DevOps Engineer Documents Only:

AWS CDK recommends using Level 3 (L3) custom constructs to encapsulate reusable multi-resource infrastructure patterns (networking, compute, DB). Then, define a single set of environment-aware stacks that accept environment parameters for deployment. This ensures consistency with minimal code duplication, per AWS CDK best practices and design patterns whitepaper.

NEW QUESTION # 298

A company runs a microservices application on Amazon Elastic Kubernetes Service (Amazon EKS). Users recently reported significant delays while accessing an account summary feature, particularly during peak business hours.

A DevOps engineer used Amazon CloudWatch metrics and logs to troubleshoot the issue. The logs indicated normal CPU and memory utilization on the EKS nodes. The DevOps engineer was not able to identify where the delays occurred within the microservices architecture.

The DevOps engineer needs to increase the observability of the application to pinpoint where the delays are occurring. Which solution will meet these requirements?

- A. Increase the timeout settings in the application code for network operations to allow more time for operations to finish.
- B. Create alarms based on the existing CloudWatch metrics. Set up an Amazon Simple Notification Service (Amazon SNS) topic to send email alerts.
- C. Enable CloudWatch Container Insights for the EKS cluster. Use the Container Insights data to diagnose the delays.
- **D. Deploy the AWS X-Ray daemon as a DaemonSet in the EKS cluster. Use the X-Ray SDK to instrument the application code. Redeploy the application.**

Answer: D

Explanation:

AWS X-Ray provides distributed tracing for microservice-based applications. Deploying the X-Ray daemon as a DaemonSet in the EKS cluster and instrumenting the application with the X-Ray SDK enables end-to-end tracing across microservices, helping identify performance bottlenecks. This method is documented in "Using AWS X-Ray with Amazon EKS" (AWS Observability Guide).

NEW QUESTION # 299

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