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Amazon AWS Certified DevOps Engineer - Professional Sample Questions (Q209-Q214):

NEW QUESTION # 209

A company has developed a serverless web application that is hosted on AWS. The application consists of Amazon S3, Amazon API Gateway, several AWS Lambda functions, and an Amazon RDS for MySQL database. The company is using AWS CodeCommit to store the source code. The source code is a combination of AWS Serverless Application Model (AWS SAM) templates and Python code.

A security audit and penetration test reveal that user names and passwords for authentication to the database are hardcoded within CodeCommit repositories. A DevOps engineer must implement a solution to automatically detect and prevent hardcoded secrets. What is the MOST secure solution that meets these requirements?

- A. Enable Amazon CodeGuru Profiler. Decorate the handler function with `@with_lambda_profiler()`. Manually review the recommendation report. Choose the option to protect the secret. Update the SAM templates and the Python code to pull the secret from AWS Secrets Manager.
- B. Associate the CodeCommit repository with Amazon CodeGuru Reviewer. Manually check the code review for any recommendations. Choose the option to protect the secret. Update the SAM templates and the Python code to pull the secret

from AWS Secrets Manager.

- C. Associate the CodeCommit repository with Amazon CodeGuru Reviewer. Manually check the code review for any recommendations. Write the secret to AWS Systems Manager Parameter Store as a string. Update the SAM templates and the Python code to pull the secret from Parameter Store.
- D. Enable Amazon CodeGuru Profiler. Decorate the handler function with `@with_lambda_profiler()`. Manually review the recommendation report. Write the secret to AWS Systems Manager Parameter Store as a secure string. Update the SAM templates and the Python code to pull the secret from Parameter Store.

Answer: B

Explanation:

Explanation

<https://docs.aws.amazon.com/codecommit/latest/userguide/how-to-amazon-codeguru-reviewer.html>

NEW QUESTION # 210

A company wants to use AWS development tools to replace its current bash deployment scripts. The company currently deploys a LAMP application to a group of Amazon EC2 instances behind an Application Load Balancer (ALB). During the deployments, the company unit tests the committed application, stops and starts services, unregisters and re-registers instances with the load balancer, and updates file permissions. The company wants to maintain the same deployment functionality through the shift to using AWS services.

Which solution will meet these requirements?

- A. Use AWS CodePipeline to trigger AWS CodeBuild to test the application. Use bash scripts invoked by AWS CodeDeploy's `appspec.yml` file to restart services. Unregister and re-register the instances in the AWS CodeDeploy deployment group with the ALB. Update the `appspec.yml` file to update file permissions without a custom script.
- B. Use AWS CodePipeline to move the application source code from the AWS CodeCommit repository to AWS CodeDeploy. Use CodeDeploy to test the application. Use CodeDeploy's `appspec.yml` file to restart services and update permissions without a custom script. Use AWS CodeBuild to unregister and re-register instances with the ALB.
- C. Use AWS CodePipeline to move the application from the AWS CodeCommit repository to AWS CodeDeploy. Use CodeDeploy's deployment group to test the application, unregister and re-register instances with the ALB, and restart services. Use the `appspec.yml` file to update file permissions without a custom script.
- D. Use AWS CodeBuild to test the application. Use bash scripts invoked by AWS CodeDeploy's `appspec.yml` file to restart services, and deregister and register instances with the ALB. Use the `appspec.yml` file to update file permissions without a custom script.

Answer: A

NEW QUESTION # 211

An AWS CodePipeline pipeline has implemented a code release process. The pipeline is integrated with AWS CodeDeploy to deploy versions of an application to multiple Amazon EC2 instances for each CodePipeline stage.

During a recent deployment the pipeline failed due to a CodeDeploy issue. The DevOps team wants to improve monitoring and notifications during deployment to decrease resolution times.

What should the DevOps engineer do to create notifications. When issues are discovered?

- A. Implement Amazon EventBridge for CodePipeline and CodeDeploy create an AWS Lambda function to evaluate code deployment issues, and create an Amazon Simple Notification Service (Amazon SNS) topic to notify stakeholders of deployment issues.
- B. Implement AWS CloudTrail to record CodePipeline and CodeDeploy API call information create an AWS Lambda function to evaluate code deployment issues and create an Amazon Simple Notification Service (Amazon SNS) topic to notify stakeholders of deployment issues.
- C. Implement Amazon EventBridge for CodePipeline and CodeDeploy create an Amazon. Inspector assessment target to evaluate code deployment issues and create an Amazon Simple. Notification Service (Amazon SNS) topic to notify stakeholders of deployment issues.
- D. Implement Amazon CloudWatch Logs for CodePipeline and CodeDeploy create an AWS Config rule to evaluate code deployment issues, and create an Amazon Simple Notification Service (Amazon SNS) topic to notify stakeholders of deployment issues.

Answer: A

Explanation:

Explanation

AWS CloudWatch Events can be used to monitor events across different AWS resources, and a CloudWatch Event Rule can be created to trigger an AWS Lambda function when a deployment issue is detected in the pipeline. The Lambda function can then evaluate the issue and send a notification to the appropriate stakeholders through an Amazon SNS topic. This approach allows for real-time notifications and faster resolution times.

NEW QUESTION # 212

A DevOps engineer manages a company's Amazon Elastic Container Service (Amazon ECS) cluster. The cluster runs on several Amazon EC2 instances that are in an Auto Scaling group. The DevOps engineer must implement a solution that logs and reviews all stopped tasks for errors.

Which solution will meet these requirements?

- A. Configure an EC2 Auto Scaling lifecycle hook for the EC2_INSTANCE_TERMINATING scale-in event. Write the SystemEventLog file to Amazon S3. Use Amazon Athena to query the log file for errors.
- B. Configure the EC2 instances to store logs in Amazon CloudWatch Logs. Create a CloudWatch Contributor Insights rule that uses the EC2 instance log data. Use the Contributor Insights rule to investigate stopped tasks.
- C. Create an Amazon EventBridge rule to capture task state changes. Send the event to Amazon CloudWatch Logs. Use CloudWatch Logs Insights to investigate stopped tasks.
- D. Configure tasks to write log data in the embedded metric format. Store the logs in Amazon CloudWatch Logs. Monitor the ContainerInstanceCount metric for changes.

Answer: C

Explanation:

The best solution to log and review all stopped tasks for errors is to use Amazon EventBridge and Amazon CloudWatch Logs. Amazon EventBridge allows the DevOps engineer to create a rule that matches task state change events from Amazon ECS. The rule can then send the event data to Amazon CloudWatch Logs as the target. Amazon CloudWatch Logs can store and monitor the log data, and also provide CloudWatch Logs Insights, a feature that enables the DevOps engineer to interactively search and analyze the log data. Using CloudWatch Logs Insights, the DevOps engineer can filter and aggregate the log data based on various fields, such as cluster, task, container, and reason. This way, the DevOps engineer can easily identify and investigate the stopped tasks and their errors.

The other options are not as effective or efficient as the solution in option A. Option B is not suitable because the embedded metric format is designed for custom metrics, not for logging task state changes. Option C is not feasible because the EC2 instances do not store the task state change events in their logs. Option D is not relevant because the EC2_INSTANCE_TERMINATING lifecycle hook is triggered when an EC2 instance is terminated by the Auto Scaling group, not when a task is stopped by Amazon ECS.

References:

- * : Creating a CloudWatch Events Rule That Triggers on an Event - Amazon Elastic Container Service
- * : Sending and Receiving Events Between AWS Accounts - Amazon EventBridge
- * : Working with Log Data - Amazon CloudWatch Logs
- * : Analyzing Log Data with CloudWatch Logs Insights - Amazon CloudWatch Logs
- * : Embedded Metric Format - Amazon CloudWatch
- * : Amazon EC2 Auto Scaling Lifecycle Hooks - Amazon EC2 Auto Scaling

NEW QUESTION # 213

A company deploys an application to Amazon EC2 instances. The application runs Amazon Linux 2 and uses AWS CodeDeploy.

The application has the following file structure for its code repository:

□ The appspec.yml file has the following contents in the files section:

□ What will the result be for the deployment of the config.txt file?

- A. The config.txt file will be deployed to /usr/local/src/config.txt and to /var/www/html/application/web/config.txt
- B. The config.txt file will be deployed to /usr/local/src/config.txt and to /var/www/html/config/config.txt.
- C. The config.txt file will be deployed to only /var/www/html/config/config.txt
- D. The config.txt file will be deployed to only /usr/local/src/config.txt

Answer: D

Explanation:

Deployment of config.txt file based on the appspec.yml:

The appspec.yml file specifies that config/config.txt should be copied to /usr/local/src/config.txt.

The source: / directive in the appspec.yml indicates that the entire directory structure starting from the root of the application source should be copied to the specified destination, which is /var/www/html.

Result of the Deployment:

The config.txt file will be specifically deployed to /usr/local/src/config.txt as per the explicit file mapping.

The entire directory structure including application/web will be copied to /var/www/html, but this does not include config/config.txt since it has a specific destination defined.

Thus, the config.txt file will be deployed only to /usr/local/src/config.txt.

Therefore, the correct answer is:

C). The config.txt file will be deployed to only /usr/local/src/config.txt.

References:

AWS CodeDeploy AppSpec File Reference

AWS CodeDeploy Deployment Process

NEW QUESTION # 214

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