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Amazon AWS Certified DevOps Engineer - Professional Sample Questions (Q268-Q273):

NEW QUESTION # 268

A DevOps team uses AWS CodePipeline, AWS CodeBuild, and AWS CodeDeploy to deploy an application.

The application is a REST API that uses AWS Lambda functions and Amazon API Gateway. Recent deployments have introduced errors that have affected many customers.

The DevOps team needs a solution that reverts to the most recent stable version of the application when an error is detected. The solution must affect the fewest customers possible.

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

- A. Set the deployment configuration in CodeDeploy to LambdaCanary10Percent10Minutes. Configure automatic rollbacks on the deployment group. Create an Amazon CloudWatch alarm that detects HTTP Bad Gateway errors on API Gateway. Configure the deployment group to roll back when the number of alarms meets the alarm threshold.
- B. Set the deployment configuration in CodeDeploy to LambdaAllAtOnce. Configure automatic rollbacks on the deployment group. Create an Amazon CloudWatch alarm that detects HTTP Bad Gateway errors on API Gateway. Configure the

deployment group to roll back when the number of alarms meets the alarm threshold

- C. Set the deployment configuration in CodeDeploy to LambdaCanary10Percent10Minutes. Configure manual rollbacks on the deployment group. Create a metric filter on an Amazon CloudWatch log group for API Gateway to monitor HTTP Bad Gateway errors. Configure the metric filter to invoke a new Lambda function that stops the current deployment and starts the most recent successful deployment.
- D. Set the deployment configuration in CodeDeploy to LambdaAllAtOnce. Configure manual rollbacks on the deployment group. Create an Amazon Simple Notification Service (Amazon SNS) topic to send notifications every time a deployment fails. Configure the SNS topic to invoke a new Lambda function that stops the current deployment and starts the most recent successful deployment.

Answer: A

Explanation:

Explanation

* Option A is incorrect because setting the deployment configuration to LambdaAllAtOnce means that the

* new version of the application will be deployed to all Lambda functions at once, affecting all customers.

This does not meet the requirement of affecting the fewest customers possible. Moreover, configuring automatic rollbacks on the deployment group is not operationally efficient, as it requires manual intervention to fix the errors and redeploy the application.

* Option B is correct because setting the deployment configuration to LambdaCanary10Percent10Minutes means that the new version of the application will be deployed to 10 percent of the Lambda functions first, and then to the remaining 90 percent after 10 minutes. This minimizes the impact of errors on customers, as only 10 percent of them will be affected by a faulty deployment.

Configuring automatic rollbacks on the deployment group also meets the requirement of reverting to the most recent stable version of the application when an error is detected. Creating a CloudWatch alarm that detects HTTP Bad Gateway errors on API Gateway is a valid way to monitor the health of the application and trigger a rollback if needed.

* Option C is incorrect because setting the deployment configuration to LambdaAllAtOnce means that the new version of the application will be deployed to all Lambda functions at once, affecting all customers.

This does not meet the requirement of affecting the fewest customers possible. Moreover, configuring manual rollbacks on the deployment group is not operationally efficient, as it requires human intervention to stop the current deployment and start a new one. Creating an SNS topic to send notifications every time a deployment fails is not sufficient to detect errors in the application, as it does not monitor the API Gateway responses.

* Option D is incorrect because configuring manual rollbacks on the deployment group is not operationally efficient, as it requires human intervention to stop the current deployment and start a new one. Creating a metric filter on a CloudWatch log group for API Gateway to monitor HTTP Bad Gateway errors is a valid way to monitor the health of the application, but invoking a new Lambda function to perform a rollback is unnecessary and complex, as CodeDeploy already provides automatic rollback functionality.

References:

* AWS CodeDeploy Deployment Configurations

* [AWS CodeDeploy Rollbacks]

* Amazon CloudWatch Alarms

NEW QUESTION # 269

A company is developing a microservices-based application on AWS. The application consists of AWS Lambda functions and Amazon Elastic Container Service (Amazon ECS) services that need to be deployed frequently.

A DevOps engineer needs to implement a consistent deployment solution across all components of the application. The solution must automate the deployments, minimize downtime during updates, and manage configuration data for the application.

Which solution will meet these requirements with the LEAST deployment effort?

- A. Use AWS Step Functions to orchestrate deployments for the Lambda functions and ECS services. Use canary deployments for the Lambda functions and ECS services in a different AWS Region. Use AWS Systems Manager Parameter Store to manage the configuration data.
- B. Use AWS CloudFormation to define and provision the Lambda functions and ECS services. Implement stack updates with resource replacement for all components. Use AWS Secrets Manager to manage the configuration data.
- **C. Use AWS CodeDeploy to manage deployments for the Lambda functions and ECS services. Implement canary deployments for the Lambda functions. Implement blue/green deployments for the ECS services. Use AWS Systems Manager Parameter Store to manage the configuration data.**
- D. Use AWS Systems Manager to manage deployments for the Lambda functions and ECS services. Implement all-at-once deployments for the Lambda functions. Implement rolling updates for the ECS services. Use AWS Secrets Manager to manage the configuration data.

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

AWS CodeDeploy supports deployment of both Lambda functions and ECS services with native integration.

* It provides deployment strategies such as canary deployments for Lambda and blue/green deployments for ECS, which minimize downtime and risk.

* CodeDeploy automates the deployment process, which reduces manual effort and improves consistency.

* AWS Systems Manager Parameter Store is a simple, managed solution for storing configuration data securely and at scale.

* Option A uses CloudFormation stack updates with resource replacement, which can cause downtime and is less flexible for minimizing downtime compared to CodeDeploy's deployment strategies.

* Option C adds unnecessary orchestration complexity with Step Functions and cross-region deployments, increasing deployment effort.

* Option D's all-at-once deployments for Lambda and rolling updates for ECS do not minimize downtime as effectively as canary and blue/green strategies. Hence, option B meets the requirement with the least deployment effort and maximizes automation and availability.

Reference from AWS Official Documentation:

* Deploying Lambda Functions with CodeDeploy: "AWS CodeDeploy supports canary and linear deployment strategies for AWS Lambda functions to reduce deployment risk." (CodeDeploy Lambda Deployment)

* Deploying ECS Services with CodeDeploy Blue/Green: "CodeDeploy supports blue/green deployments for ECS to minimize downtime during service updates." (CodeDeploy ECS Blue/Green)

* AWS Systems Manager Parameter Store: "Parameter Store provides secure, hierarchical storage for configuration data management." (Systems Manager Parameter Store)

NEW QUESTION # 270

A company manages AWS accounts for application teams in AWS Control Tower. Individual application teams are responsible for securing their respective AWS accounts.

A DevOps engineer needs to enable Amazon GuardDuty for all AWS accounts in which the application teams have not already enabled GuardDuty. The DevOps engineer is using AWS CloudFormation StackSets from the AWS Control Tower management account.

How should the DevOps engineer configure the CloudFormation template to prevent failure during the StackSets deployment?

- A. Manually discover the list of AWS account IDs where GuardDuty is not enabled Use the CloudFormation Fn: ImportValue intrinsic function to import the list of account IDs into the CloudFormation template to skip deployment for the listed AWS accounts.
- B. Use the Conditions section of the CloudFormation template to enable GuardDuty in accounts where GuardDuty is not already enabled.
- C. Use the CloudFormation Fn. GetAtt intrinsic function to check whether GuardDuty is already enabled If GuardDuty is not already enabled use the Resources section of the CloudFormation template to enable GuardDuty.
- **D. Create a CloudFormation custom resource that invokes an AWS Lambda function. Configure the Lambda function to conditionally enable GuardDuty if GuardDuty is not already enabled in the accounts.**

Answer: D

Explanation:

This solution will meet the requirements because it will use a CloudFormation custom resource to execute custom logic during the stack set operation. A custom resource is a resource that you define in your template and that is associated with an AWS Lambda function. The Lambda function runs whenever the custom resource is created, updated, or deleted, and can perform any actions that are supported by the AWS SDK. In this case, the Lambda function can use the GuardDuty API to check whether GuardDuty is already enabled in each target account, and if not, enable it. This way, the DevOps engineer can avoid deploying the stack set to accounts that already have GuardDuty enabled, and prevent failure during the deployment.

NEW QUESTION # 271

A company uses Amazon ECS with the Amazon EC2 launch type. The company requires all log data to be centralized on Amazon CloudWatch. The company's ECS tasks failed to deploy. An error message indicates that a missing permission causes the failure.

The IAM role used includes logs:CreateLogGroup, logs:

CreateLogStream, and logs:PutLogEvents.

Which solution will fix the problem?

- A. Add an IAM trust policy that establishes CloudWatch as a trusted service.

- B. Remove the logs:CreateLogStream permission.
- **C. Add an IAM trust policy to the IAM role that establishes Amazon ECS as a trusted service.**
- D. Add the logs:PutDestination permission.

Answer: C

Explanation:

ECS container instances must have an IAM role that trusts ECS (the ecs-tasks.amazonaws.com principal) to assume permissions for CloudWatch logging. Without this trust relationship, ECS cannot push logs even if the permissions are present.

NEW QUESTION # 272

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. 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.**
- B. 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.
- C. 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.
- D. 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.

Answer: A

Explanation:

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 # 273

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