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Amazon AWS Certified DevOps Engineer - Professional Sample Questions (Q245-Q250):

NEW QUESTION # 245

A company manages environments for its application in multiple AWS accounts. Each environment account is in a different OU in AWS Organizations.

A DevOps team is responsible for the application deployment process across the environments. The deployment process uses an AWS CodePipeline pipeline in a Shared Services account. The DevOps team members are in the same user group. The team members have administrative access to all accounts through AWS IAM Identity Center.

A recent deployment problem in the development environment required the DevOps team to perform manual steps. The deployment to the production environment then resulted in an incident that caused the pipeline to fail, blocking new deployments for several hours.

A DevOps engineer needs to ensure that only the pipeline can perform deployments in the production environment. The DevOps engineer must have access to the environment in case of an emergency.

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

- A. Update the DevOps group to be able to assume the pipeline role for the production accounts. Configure a new user in IAM Identity Center for the DevOps engineer with a new permission set that has AdministratorAccess permissions. Add an SCP that denies modification of resources by any entity other than the DevOps engineer.
- B. Update the DevOps group to have the ReadOnlyAccess permission set for the production accounts. Configure the DevOps engineer user with a new permission set that has AdministratorAccess permissions and that allows the user to assume the pipeline role. Add an SCP that denies modification of resources by any entity other than the pipeline role.
- C. Create an SCP that denies all write actions for the DevOps team members on the production OU. Use a specific tag to tag the resources that CodePipeline provisions. Add an SCP that denies modification of tagged resources by any entity other than the DevOps engineer.
- D. Create an SCP that denies all write actions for the DevOps team members on the production OU. Configure a new user in IAM Identity Center for the DevOps engineer with a new permission set that has AdministratorAccess permissions. Add an SCP that denies modification of resources by any entity other than the pipeline role.

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The requirement is to restrict production deployments strictly to the pipeline, while still allowing emergency access to a specific engineer.

* The best approach is to restrict the DevOps team to read-only access in production accounts, minimizing risk of manual changes (Option A).

* The DevOps engineer can have an admin permission set but assume the pipeline IAM role for deployment, enforcing strict control.

* Applying an SCP to deny modification by anyone other than the pipeline role enforces this at the organization level. Option B is similar but unnecessarily creates separate IAM users, increasing management overhead. Option C grants the DevOps engineer broader permissions that may conflict with controls. Option D complicates management with tagging and SCPs, increasing operational overhead.

Reference:

AWS Organizations Service Control Policies (SCPs): "SCPs can restrict what actions identities in member accounts can perform, even for administrators." (AWS Organizations SCP Documentation) IAM Identity Center Role Assumption Best Practices: "Use role assumption for limited elevated permissions instead of broad admin access." (AWS IAM Best Practices)

NEW QUESTION # 246

A company has an application that is using a MySQL-compatible Amazon Aurora Multi-AZ DB cluster as the database. A cross-Region read replica has been created for disaster recovery purposes. A DevOps engineer wants to automate the promotion of the replica so it becomes the primary database instance in the event of a failure. Which solution will accomplish this?

- A. Create an AWS Lambda function to modify the application's AWS CloudFormation template to promote the replica, apply the template to update the stack, and point the application to the newly promoted instance. Create an Amazon CloudWatch alarm to invoke this Lambda function after the failure event occurs.
- **B. Store the Aurora endpoint in AWS Systems Manager Parameter Store. Create an Amazon EventBridge event that detects the database failure and runs an AWS Lambda function to promote the replica instance and update the endpoint URL stored in AWS Systems Manager Parameter Store. Code the application to reload the endpoint from Parameter Store if a database connection fails.**
- C. Configure a latency-based Amazon Route 53 CNAME with health checks so it points to both the primary and replica endpoints. Subscribe an Amazon SNS topic to Amazon RDS failure notifications from AWS CloudTrail and use that topic to invoke an AWS Lambda function that will promote the replica instance as the primary.
- D. Create an Aurora custom endpoint to point to the primary database instance. Configure the application to use this endpoint. Configure AWS CloudTrail to run an AWS Lambda function to promote the replica instance and modify the custom endpoint to point to the newly promoted instance.

Answer: B

Explanation:

Explanation

EventBridge is needed to detect the database failure. Lambda is needed to promote the replica as it's in another Region (manual promotion, otherwise). Storing and updating the endpoint in Parameter store is important in updating the application. Look at High Availability section of Aurora FAQ:

<https://aws.amazon.com/rds/aurora/faqs/>

NEW QUESTION # 247

A company runs an application on Amazon EC2 instances. The company uses a series of AWS CloudFormation stacks to define the application resources. A developer performs updates by building and testing the application on a laptop and then uploading the build output and CloudFormation stack templates to Amazon S3. The developer's peers review the changes before the developer performs the CloudFormation stack update and installs a new version of the application onto the EC2 instances.

The deployment process is prone to errors and is time-consuming when the developer updates each EC2 instance with the new application. The company wants to automate as much of the application deployment process as possible while retaining a final manual approval step before the modification of the application or resources.

The company already has moved the source code for the application and the CloudFormation templates to AWS CodeCommit. The company also has created an AWS CodeBuild project to build and test the application.

Which combination of steps will meet the company's requirements? (Choose two.)

- **A. Use AWS CodePipeline to invoke the CodeBuild job, create CloudFormation change sets for each of the application stacks, and pause for a manual approval step. After approval, run the CloudFormation change sets and start the AWS CodeDeploy deployment.**
- B. Create an application revision and a deployment group in AWS CodeDeploy. Create an environment in CodeDeploy. Register the EC2 instances to the CodeDeploy environment.
- C. Use AWS CodePipeline to invoke the CodeBuild job, create CloudFormation change sets for each of the application stacks, and pause for a manual approval step. After approval, start the AWS CodeDeploy deployment.
- **D. Create an application group and a deployment group in AWS CodeDeploy. Install the CodeDeploy agent on the EC2 instances.**
- E. Use AWS CodePipeline to invoke the CodeBuild job, run the CloudFormation update, and pause for a manual approval step. After approval, start the AWS CodeDeploy deployment.

Answer: A,D

Explanation:

Explanation

A- <https://docs.aws.amazon.com/codedeploy/latest/userguide/codedeploy-agent.html> D - This option correctly utilizes AWS CodePipeline to invoke the CodeBuild job and create CloudFormation change sets. It adds a manual approval step before executing the change sets and starting the AWS CodeDeploy deployment. This ensures that the deployment process is automated while retaining the final manual approval step.

NEW QUESTION # 248

A company deploys a web application on Amazon EC2 instances that are behind an Application Load Balancer (ALB). The company stores the application code in an AWS CodeConnections compatible Git repository.

When the company merges code to the main branch, an AWS CodeBuild project is initiated. The CodeBuild project compiles the code, stores the packaged code in AWS CodeArtifact, and invokes AWS Systems Manager Run Command to deploy the packaged code to the EC2 instances.

Previous deployments have resulted in defects, EC2 instances that were not running the latest version of the packaged code, and inconsistencies between instances. A DevOps engineer needs to improve the reliability of the deployment solution.

Which combination of actions will meet this requirement? (Select TWO.)

- A. Create an AWS CodeDeploy application and a deployment group to deploy the packaged code to the EC2 instances. Configure the ALB for the deployment group.
- B. Create individual AWS Lambda functions that use AWS CodeDeploy instead of Systems Manager to run build, test, and deploy actions.
- C. Create an Amazon S3 bucket. Modify the CodeBuild project to store the packages in the S3 bucket instead of in CodeArtifact. Use deploy actions in CodeDeploy to deploy.
- D. Create a pipeline in AWS CodePipeline that uses the Git repository as the source provider. Configure the pipeline to have parallel build and test stages. In the pipeline, pass the CodeBuild project output artifact to an AWS CodeDeploy action.
- E. Create a pipeline in AWS CodePipeline that uses the Git repository as the source provider. Configure the pipeline to have a build stage followed by a test stage. In the pipeline, pass the CodeBuild project output artifact to an AWS CodeDeploy action.

Answer: A,E

Explanation:

The core problem described is deployment inconsistency and lack of reliability caused by using AWS Systems Manager Run Command for application deployment. Run Command executes ad hoc commands and does not provide deployment orchestration, version tracking, lifecycle hooks, or health-based traffic control, which commonly leads to drift between EC2 instances.

The most reliable AWS-native solution is to adopt AWS CodePipeline combined with AWS CodeDeploy. Option B introduces a structured CI/CD pipeline with a clear build stage followed by a test stage, ensuring that only tested artifacts progress to deployment. Sequential build and test stages are preferred for reliability and deterministic behavior, especially when test results must gate deployments.

Option C is essential because AWS CodeDeploy is the service specifically designed to deploy application revisions consistently across EC2 fleets. By creating a CodeDeploy application and deployment group and integrating it with the ALB, deployments gain support for lifecycle events, health checks, instance synchronization, and automatic rollback. This ensures that all EC2 instances receive the same application version and that traffic is managed safely during deployments.

Option A introduces unnecessary parallelism that does not address the core issue. Option D adds excessive complexity with Lambda orchestration. Option E incorrectly replaces CodeArtifact with S3 without addressing deployment reliability.

Therefore, combining CodePipeline (B) with CodeDeploy and ALB integration (C) provides consistent, repeatable, and reliable deployments aligned with AWS best practices.

NEW QUESTION # 249

A company needs to ensure that flow logs remain configured for all existing and new VPCs in its AWS account. The company uses an AWS CloudFormation stack to manage its VPCs. The company needs a solution that will work for any VPCs that any IAM user creates.

Which solution will meet these requirements?

- A. Create an IAM policy to deny the use of API calls for VPC flow logs. Attach the IAM policy to all IAM users.
- B. Create an organization in AWS Organizations. Add the company's AWS account to the organization. Create an SCP to prevent users from modifying VPC flow logs.
- C. Add the resource to the CloudFormation stack that creates the VPCs.
- D. Turn on AWS Config. Create an AWS Config rule to check whether VPC flow logs are turned on. Configure automatic remediation to turn on VPC flow logs.

Answer: D

Explanation:

To meet the requirements of ensuring that flow logs remain configured for all existing and new VPCs in the AWS account, the company should use AWS Config and automatic remediation. AWS Config is a service that enables customers to assess, audit, and

evaluate the configurations of their AWS resources. AWS Config continuously monitors and records the configuration changes of the AWS resources and evaluates them against desired configurations. Customers can use AWS Config rules to define the desired configuration state of their AWS resources and trigger actions when a resource configuration violates a rule.

One of the AWS Config rules that customers can use is `vpc-flow-logs-enabled`, which checks whether VPC flow logs are enabled for all VPCs in an AWS account. Customers can also configure automatic remediation for this rule, which means that AWS Config will automatically enable VPC flow logs for any VPCs that do not have them enabled. Customers can specify the destination (CloudWatch Logs or S3) and the traffic type (all, accept, or reject) for the flow logs as remediation parameters. By using AWS Config and automatic remediation, the company can ensure that flow logs remain configured for all existing and new VPCs in its AWS account, regardless of who creates them or how they are created.

The other options are not correct because they do not meet the requirements or follow best practices. Adding the resource to the CloudFormation stack that creates the VPCs is not a sufficient solution because it will only work for VPCs that are created by using the CloudFormation stack. It will not work for VPCs that are created by using other methods, such as the console or the API.

Creating an organization in AWS Organizations and creating an SCP to prevent users from modifying VPC flow logs is not a good solution because it will not ensure that flow logs are enabled for all VPCs in the first place. It will only prevent users from disabling or changing flow logs after they are enabled. Creating an IAM policy to deny the use of API calls for VPC flow logs and attaching it to all IAM users is not a valid solution because it will prevent users from enabling or disabling flow logs at all. It will also not work for VPCs that are created by using other methods, such as the console or CloudFormation.

References:

1: `AWS::EC2::FlowLog` - AWS CloudFormation

2: Amazon VPC Flow Logs extends CloudFormation Support to custom format subscriptions, 1-minute aggregation intervals and tagging

3: Logging IP traffic using VPC Flow Logs - Amazon Virtual Private Cloud

: About AWS Config - AWS Config

: `vpc-flow-logs-enabled` - AWS Config

: Remediate Noncompliant Resources with AWS Config Rules - AWS Config

NEW QUESTION # 250

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