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Amazon AWS Certified DevOps Engineer - Professional Sample Questions (Q330-Q335):

NEW QUESTION # 330
A security team wants to use AWS CloudTrail to monitor all actions and API calls in multiple accounts that are in the same organization in AWS Organizations. The security team needs to ensure that account users cannot turn off CloudTrail in the accounts. Which solution will meet this requirement?

- A. Apply an SCP to all OUs to deny the cloudtrail:StopLogging action and the cloudtrail:DeleteTrail action.
- B. Create IAM policies in each account to deny the cloudtrail:StopLogging action and the cloudtrail:DeleteTrail action.
- C. Use AWS Config to automatically re-enable CloudTrail if a user disables CloudTrail in an account.
- D. Set up Amazon CloudWatch alarms to notify the security team when a user disables CloudTrail in an account.

Answer: A

Explanation:

To ensure that CloudTrail cannot be disabled in any member account, the control must be enforced above the individual accounts, at the organization level, and must not be overridable by local administrators. AWS Service Control Policies (SCPs) provide exactly this capability: they define permission guardrails that apply to all IAM users, roles, and even the root user in accounts within an AWS Organizations OU.

By applying an SCP that explicitly denies cloudtrail:StopLogging and cloudtrail:DeleteTrail, the organization prevents any principal in the affected accounts from disabling logging or deleting the trails, regardless of their IAM permissions. This provides strong, centralized enforcement of audit logging.

Option B uses IAM policies in each account. Local administrators with sufficient privileges could modify or detach those policies, defeating the control. Option C only sends notifications and does not prevent the action.

Option D with AWS Config auto-remediation still allows a window where CloudTrail is disabled and also can be disabled or modified itself.

Therefore, the most robust and least bypassable approach is to use an SCP at the OU level to deny CloudTrail stop and delete actions.

NEW QUESTION # 331

A company releases a new application in a new AWS account. The application includes an AWS Lambda function that processes messages from an Amazon Simple Queue Service (Amazon SOS) standard queue. The Lambda function stores the results in an Amazon S3 bucket for further downstream processing. The Lambda function needs to process the messages within a specific period of time after the messages are published. The Lambda function has a batch size of 10 messages and takes a few seconds to process a batch of messages.

As load increases on the application's first day of service, messages in the queue accumulate at a greater rate than the Lambda function can process the messages. Some messages miss the required processing timelines.

The logs show that many messages in the queue have data that is not valid. The company needs to meet the timeline requirements for messages that have valid data.

Which solution will meet these requirements?

- A. Reduce the Lambda function's batch size. Increase the SOS message throughput quota. Request a Lambda concurrency increase in the AWS Region.
- B. Increase the Lambda function's batch size. Change the SOS standard queue to an SOS FIFO queue.
  Request a Lambda concurrency increase in the AWS Region.
- C. Keep the Lambda function's batch size the same. Configure the Lambda function to report failed batch items. Configure an SOS dead-letter queue.
- D. Increase the Lambda function's batch size. Configure S3 Transfer Acceleration on the S3 bucket.
  Configure an SOS dead-letter queue.

Answer: C

Explanation:
Step 1: Handling Invalid Data with Failed Batch ItemsThe Lambda function is processing batches of messages, and some messages contain invalid data, causing processing delays. Lambda provides the capability to report failed batch items, which allows valid messages to be processed while skipping invalid ones. This functionality ensures that the valid messages are processed within the required timeline.

Action: Keep the Lambda function's batch size the same and configure it to report failed batch items.

Why: By reporting failed batch items, the Lambda function can skip invalid messages and continue processing valid ones, ensuring that they meet the processing timeline.

Reference: AWS documentation on Lambda batch item failure handling.

Step 2: Using an SQS Dead-Letter Queue (DLQ)Configuring a dead-letter queue (DLQ) for SQS will ensure that messages with invalid data, or those that cannot be processed successfully, are moved to the DLQ. This prevents such messages from clogging the queue and allows the system to focus on processing valid messages.

Action: Configure an SQS dead-letter queue for the main queue.

Why: A DLQ helps isolate problematic messages, preventing them from continuously reappearing in the queue and causing processing delays for valid messages.

Reference: AWS documentation on Amazon SQS Dead-Letter Queues.

Step 3: Maintaining the Lambda Function's Batch SizeKeeping the current batch size allows the Lambda function to continue processing multiple messages at once. By addressing the failed items separately, there's no need to increase or reduce the batch size.

Action: Maintain the Lambda function's current batch size.

Why: Changing the batch size is unnecessary if the invalid messages are properly handled by reporting failed items and using a DLQ. This corresponds to Option D: Keep the Lambda function's batch size the same. Configure the Lambda function to report failed batch items. Configure an SQS dead-letter queue.

NEW QUESTION # 332
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 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.
- B. 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.
- 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 a single set of deployment stacks that takes the environment name as an argument upon instantiation. Deploy CDK applications for each environment.

Answer: D

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 # 333
A DevOps engineer is building a multistage pipeline with AWS CodePipeline to build, verify, stage, test, and deploy an application.
A manual approval stage is required between the test stage and the deploy stage. The development team uses a custom chat tool with webhook support that requires near-real-time notifications.
How should the DevOps engineer configure status updates for pipeline activity and approval requests to post to the chat tool?

- A. Create an AWS Lambda function that is invoked by AWS CloudTrail events. When a CodePipeline Pipeline Execution State Change event is detected, send the event details to the chat webhook URL.
- B. Create an Amazon CloudWatch Logs subscription that filters on CodePipeline Pipeline Execution State Change. Publish subscription events to an Amazon Simple Notification Service (Amazon SNS) topic.
  Subscribe the chat webhook URL to the SNS topic, and complete the subscription validation.
- C. Modify the pipeline code to send the event details to the chat webhook URL at the end of each stage.Parameterize the URL so that each pipeline can send to a different URL based on the pipeline environment.
- D. Create an Amazon EventBridge rule that filters on CodePipeline Pipeline Execution State Change.
  Publish the events to an Amazon Simple Notification Service (Amazon SNS) topic. Create an AWS Lambda function that sends event details to the chat webhook URL. Subscribe the function to the SNS topic.

Answer: D

Explanation:
https://aws.amazon.com/premiumsupport/knowledge-center/sns-lambda-webhooks-chime-slack-teams/

NEW QUESTION # 334
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 organization in AWS Organizations. Add the company's AWS account to the organization. Create an SCP to prevent users from modifying VPC flow logs.
- B. Create an IAM policy to deny the use of API calls for VPC flow logs. Attach the IAM policy to all IAM users.
- 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 # 335
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