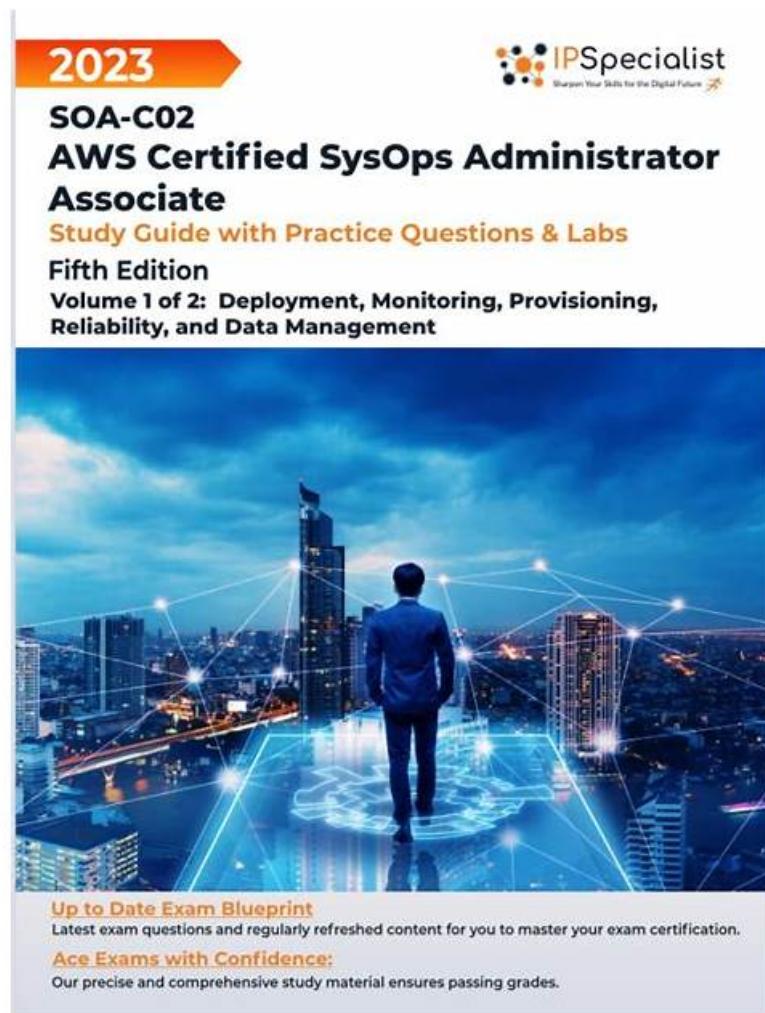


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SOA-C02

AWS Certified SysOps Administrator Associate

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Fifth Edition

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Amazon AWS Certified SysOps Administrator - Associate (SOA-C02) Sample Questions (Q554-Q559):

NEW QUESTION # 554

A company is running an application on a fleet of Amazon EC2 instances behind an Application Load Balancer (ALB). The EC2 instances are launched by an Auto Scaling group and are automatically registered in a target group. A SysOps administrator must set up a notification to alert application owners when targets fail health checks.

What should the SysOps administrator do to meet these requirements?

- A. Update the ALB health check to send an Amazon Simple Notification Service (Amazon SNS) notification when an instance is unhealthy.
- B. Configure an Amazon EC2 Auto Scaling custom lifecycle action to send an Amazon Simple Notification Service (Amazon SNS) notification when an instance is in the PendingWait state.
- C. Create an Amazon CloudWatch alarm on the UnHealthyHostCount metric. Configure an action to send an Amazon Simple Notification Service (Amazon SNS) notification when the metric is greater than 0.
- D. Update the Auto Scaling group. Configure an activity notification to send an Amazon Simple Notification Service (Amazon SNS) notification for the Unhealthy event type.

Answer: C

Explanation:

To set up a notification for failed health checks of targets in the ALB, follow these steps:

Create a CloudWatch Alarm:

Navigate to CloudWatch and create a new alarm based on the UnHealthyHostCount metric of the target group.

Reference:

Configure the Alarm Action:

Configure the alarm to send an Amazon SNS notification when the UnHealthyHostCount metric is greater than 0.

This setup will notify application owners whenever a target fails health checks.

NEW QUESTION # 555

A company has a new requirement stating that all resources in AWS must be tagged according to a set policy.

Which AWS service should be used to enforce and continually identify all resources that are not in compliance with the policy?

- A. AWS CloudTrail
- B. AWS Systems Manager
- C. AWSConfig
- D. Amazon Inspector

Answer: C

Explanation:

Understand the Problem:

All AWS resources must be tagged according to a company policy.

Continuous identification and enforcement of non-compliant resources are required.

Analyze the Requirements:

Monitor resources for compliance with tagging policies.

Enforce tagging policies and provide ongoing compliance reporting.

Evaluate the Options:

Option A: AWS CloudTrail.

Tracks user activity and API usage but does not enforce tagging policies.

Option B: Amazon Inspector.

Provides security assessments but does not monitor or enforce resource tagging.

Option C: AWS Config.

Monitors and evaluates the configurations of AWS resources.

AWS Config rules can be used to enforce tagging policies and continuously monitor compliance.

Option D: AWS Systems Manager.

Provides operational insights and management but does not specifically enforce tagging compliance.

Select the Best Solution:

Option C: AWS Config is designed for compliance and configuration monitoring, making it the ideal service for enforcing and identifying non-compliant resource tags.

Reference:

AWS Config

Managing Resource Tag Compliance with AWS Config

AWS Config provides the necessary tools to enforce and monitor resource tagging compliance, ensuring all resources adhere to the set policy.

NEW QUESTION # 556

A company runs an application on Amazon EC2 instances. The application connects to a single Amazon RDS for MySQL DB instance.

Traffic for the application has increased for several months. The application has experienced some sudden traffic surges that increased RDS CPU utilization and created many database connections. Approximately 80% of the traffic to the database is for read operations. The other

20% of traffic is for write operations.

A SysOps administrator must ensure that the database can accommodate the increased application traffic.

Which combination of actions will meet this requirement? (Choose two.)

- A. Deploy an Application Load Balancer (ALB). Assign the DB instance to the target group for the ALB. Configure the database connection string to use the ALB DNS name.
- B. Convert the DB instance to a Multi-AZ DB instance deployment. Configure the database connection string to use a round-robin DNS record that contains both DB instances.
- C. Create an RDS read replica. Identify the read-only queries. Configure read-only queries to connect to the read connection string.
- D. Update the DB instance to the latest version. Use a blue/green deployment during the update.
- E. Deploy an RDS proxy. Assign the primary DB instance to the target group. Configure the database connection string to use the proxy endpoint.

Answer: C,E

Explanation:

Offloads the 80% read workload to a replica using the read endpoint, relieving CPU/utilization on the primary.

Pools and reuses connections, smoothing sudden surges so the database isn't overwhelmed by new connections.

NEW QUESTION # 557

A SysOps administrator needs to develop a solution that provides email notification and inserts a record into a database every time a file is put into an Amazon S3 bucket.

What is the MOST operationally efficient solution that meets these requirements?

- A. Set up two S3 event notifications Target a separate AWS Lambda function with each notification. Configure one function to send the email notification. Configure the other function to insert the record into the database.
- B. Set up an Amazon CloudWatch alarm that enters ALARM state whenever an object is created in the S3 bucket. Configure the alarm to invoke an AWS Lambda function that sends the email notification and inserts the record into the database
- C. Set up an S3 event notification that targets an Amazon Simple Notification Service (Amazon SNS) topic. Create two subscriptions for the SNS topic. Use one subscription to send the email notification. Use the other subscription to invoke an AWS Lambda function that inserts the record into the database.
- D. Create an AWS Lambda function to send the email notification and insert the record into the database whenever a new object is detected in the S3 bucket invoke the function every minute with an Amazon EventBridge (Amazon CloudWatch Events) scheduled rule

Answer: C

Explanation:

<https://aws.amazon.com/pt/premiumsupport/knowledge-center/lambda-subscribe-sns-topic-same-account/>

NEW QUESTION # 558

A company hosts an internal application on Amazon EC2 On-Demand Instances behind an Application Load Balancer (ALB). The instances are in an Amazon EC2 Auto Scaling group. Employees use the application to provide product prices to potential customers. The Auto Scaling group is configured with a dynamic scaling policy and tracks average CPU utilization of the instances. Employees have noticed that sometimes the application becomes slow or unresponsive. A SysOps administrator finds that some instances are experiencing a high CPU load. The Auto Scaling group cannot scale out because the company is reaching the EC2 instance service quota.

The SysOps administrator needs to implement a solution that provides a notification when the company reaches 70% or more of the EC2 instance service quota.

Which solution will meet these requirements in the MOST operationally efficient manner?

- A. Use the Service Quotas console to create an Amazon CloudWatch alarm for the EC2 instances. Configure the alarm with quota utilization equal to or greater than 70%. Configure the alarm to publish an Amazon Simple Notification Service (Amazon SNS) notification when the alarm enters ALARM state.
- B. Create an AWS Lambda function that lists the EC2 instances, counts the EC2 instances, and compares the total number against the applied quota value by using the Amazon CloudWatch Metrics API. Configure the Lambda function to publish an Amazon Simple Notification Service (Amazon SNS) notification if the quota utilization is equal to or greater than 70%. Create an Amazon EventBridge rule to invoke the Lambda function.
- C. Create an Amazon CloudWatch alarm. Configure the alarm with a threshold of 70% for the CPUUtilization metric for the EC2 instances. Configure the alarm to publish an Amazon Simple Notification Service (Amazon SNS) notification when the alarm enters ALARM state.
- D. Create an AWS Lambda function that lists the EC2 instances, counts the EC2 instances, and compares the total number against the applied quota value by using the Service Quotas API. Configure the Lambda function to publish an Amazon Simple Notification Service (Amazon SNS) notification if the quota utilization is equal to or greater than 70%. Create an Amazon EventBridge rule to invoke the Lambda function.

Answer: A

Explanation:

To monitor and receive alerts when the EC2 instance service quota usage reaches 70% or more:

Service Quotas Console: Navigate to the Service Quotas console within AWS and identify the specific quota for EC2 instances.

Create a CloudWatch Alarm: Directly from the Service Quotas console, set up a CloudWatch alarm for the EC2 instance quota metric.

Configure the alarm to trigger when the quota utilization reaches or exceeds 70%.

Notification Setup: Link this alarm to an Amazon SNS topic that will send a notification to relevant stakeholders or systems when the quota usage threshold is breached.

This method provides an automated, straightforward way to monitor resource limits and ensures that stakeholders are promptly notified, enabling them to take proactive measures to manage the quota and prevent service disruption.

NEW QUESTION # 559

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