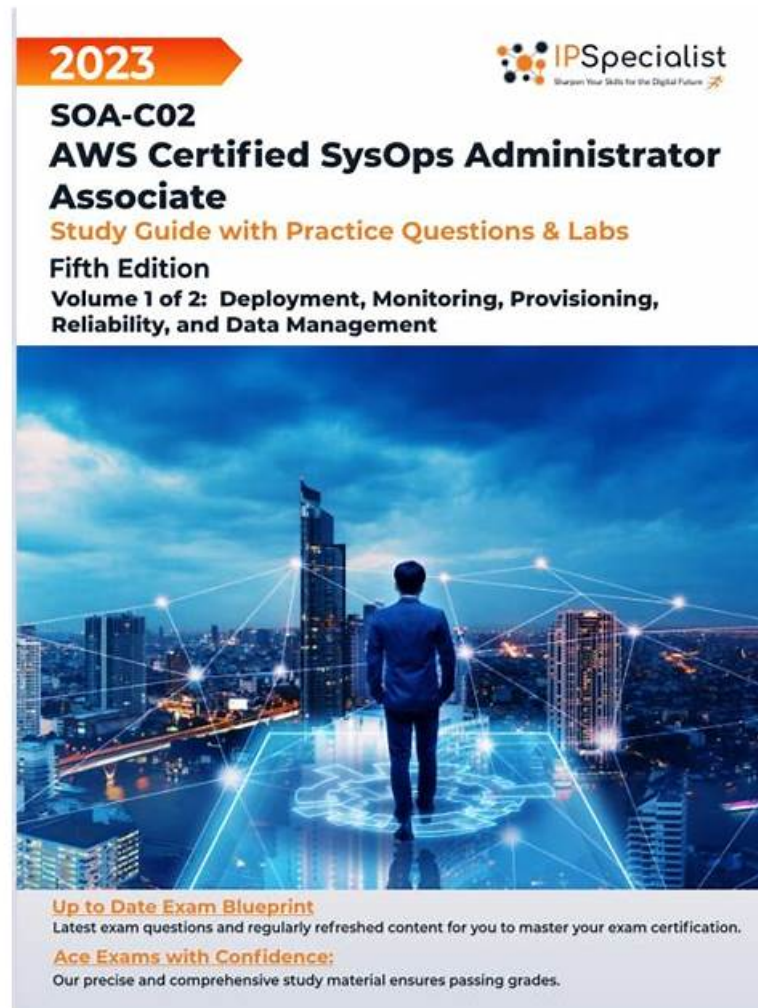


100% Pass 2025 Amazon SOA-C02: AWS Certified SysOps Administrator - Associate (SOA-C02)–The Best New Dumps Book



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Amazon SOA-C02 exam is a challenging exam that requires a strong understanding of AWS services and concepts. Candidates will need to prepare thoroughly and be comfortable with the AWS platform and its various services. To pass the exam, candidates will need to demonstrate their knowledge of AWS services and their ability to apply this knowledge to real-world scenarios. Overall, earning the AWS Certified SysOps Administrator - Associate certification is an accomplishment that can help IT professionals advance their careers and demonstrate their expertise in AWS administration.

AWS Certified SysOps Administrator - Associate (SOA-C02) certification is a valuable credential for IT professionals seeking to demonstrate their expertise in managing and operating AWS environments. It validates the candidate's ability to deploy and manage scalable, highly available, and fault-tolerant systems on AWS and provides a competitive edge in the job market.

To prepare for the SOA-C02 Exam, candidates should have a strong understanding of AWS services and architecture, as well as experience working with AWS CLI, SDKs, and APIs. AWS offers various training courses, including the AWS Certified SysOps

Administrator - Associate Exam Readiness course, to help candidates prepare for the exam. Candidates can also find study materials and practice exams from third-party providers to supplement their preparation.

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Amazon AWS Certified SysOps Administrator - Associate (SOA-C02) Sample Questions (Q39-Q44):

NEW QUESTION # 39

A SysOps administrator runs the AWS Systems Manager Run Command AWS-RunPatchBaseline document on a group of 20 Amazon Linux 2023 based Amazon EC2 instances. After the Run Command document runs successfully, the SysOps administrator finds that some of the EC2 instances were not patched. The SysOps administrator verifies that the desired Amazon Linux 2023 patch baseline is set as the default baseline. What is the MOST likely reason some instances were not updated to the latest kernel?

- A. The instances that were not updated are considered noncompliant in the patch baseline.
- B. The instances that were not updated have a custom ResourceGroup tag.
- C. The instances that were not updated have the PatchGroup tag.
- **D. The instances that were not updated were added to the patch exception in the patch baseline.**

Answer: D

Explanation:

Patch Manager lets you specify patch exceptions in a baseline. Any instance listed there will skip those patches (e.g., the latest kernel), even though the Run Command succeeded and the baseline is default. That's the most likely reason they weren't updated.

NEW QUESTION # 40

A company runs a web application on three Amazon EC2 instances behind an Application Load Balancer (ALB). The company notices that random periods of increased traffic cause a degradation in the application's performance. A SysOps administrator must scale the application to meet the increased traffic. Which solution meets these requirements?

- A. Create an Amazon EventBridge (Amazon CloudWatch Events) rule to monitor application latency and add an EC2 instance to the ALB if the desired threshold is reached.
- B. Deploy the application to an Auto Scaling group of EC2 instances with a scheduled scaling policy. Attach the ALB to the Auto Scaling group.
- C. Create an Amazon CloudWatch alarm to monitor application latency and increase the size of each EC2 instance if the desired threshold is reached.
- **D. Deploy the application to an Auto Scaling group of EC2 instances with a target tracking scaling policy. Attach the ALB to the Auto Scaling group.**

Answer: D

Explanation:

Step-by-Step Explanation:

- * Understand the Problem:
 - * The web application experiences performance degradation during random periods of increased traffic.
- * Analyze the Requirements:
 - * Implement a scalable solution to handle varying traffic loads.
 - * Maintain application performance during traffic spikes.

- * Evaluate the Options:
- * Option A: Monitor application latency with CloudWatch alarm and increase instance size.
- * Manually resizing instances is not efficient for handling random traffic spikes.
- * Option B: Use EventBridge rule to add EC2 instance to ALB.
- * This approach is not as efficient as Auto Scaling for dynamic traffic management.
- * Option C: Deploy to an Auto Scaling group with target tracking scaling policy.
- * Automatically adjusts the number of instances based on traffic demand.
- * Ensures consistent application performance by scaling in response to traffic changes.
- * Option D: Deploy to an Auto Scaling group with scheduled scaling policy.
- * Suitable for predictable traffic patterns but not for random traffic spikes.
- * Select the Best Solution:
- * Option C: Using an Auto Scaling group with a target tracking scaling policy ensures the application scales dynamically based on traffic, maintaining performance.

Amazon EC2 Auto Scaling
Target Tracking Scaling Policies

Auto Scaling with a target tracking policy provides a robust solution for handling random traffic increases by dynamically adjusting the number of instances.

NEW QUESTION # 41

A company has a public web application that experiences rapid traffic increases after advertisements appear on local television. The application runs on Amazon EC2 instances that are in an Auto Scaling group. The Auto Scaling group is not keeping up with the traffic surges after an advertisement runs. The company often needs to scale out to 100 EC2 instances during the traffic surges. The instance startup times are lengthy because of a boot process that creates machine-specific data caches that are unique to each instance. The exact timing of when the advertisements will appear on television is not known. A SysOps administrator must implement a solution so that the application can function properly during the traffic surges. Which solution will meet these requirements?

- A. Increase the value of the instance warmup time in the scaling policy.
- B. Use predictive scaling for the Auto Scaling group.
- **C. Create a warm pool. Keep enough instances in the Stopped state to meet the increased demand.**
- D. Start 100 instances. Allow the boot process to finish running. Store this data on the instance store volume before stopping the instances.

Answer: C

Explanation:

To address the issue of slow startup times during unexpected traffic surges, a warm pool for the Auto Scaling group is an effective solution:

Warm Pool Concept: A warm pool allows you to maintain a set of pre-initialized or partially initialized EC2 instances that are not actively serving traffic but can be quickly brought online when needed.

Management of Instances: Instances in the warm pool can be kept in a stopped state and then started much more quickly than launching new instances, as the machine-specific data caches are already created.

Scalability and Responsiveness: During a surge in traffic, especially unpredictable ones like those triggered by advertisements, instances from the warm pool can be rapidly activated to handle the increased load, ensuring that the application remains responsive without the typical delays associated with boot processes.

This method significantly reduces the time to scale out by utilizing pre-warmed instances, enhancing the application's ability to cope with sudden and substantial increases in traffic.

NEW QUESTION # 42

A SysOps administrator migrates NAT instances to NAT gateways. After the migration, an application that is hosted on Amazon EC2 instances in a private subnet cannot access the internet.

Which of the following are possible reasons for this problem? (Choose two.)

- A. The port forwarding settings do not allow access to internal services from the internet.
- B. The NAT gateway is not in a security group.
- C. The NAT gateway is in an unsupported Availability Zone.
- **D. The NAT gateway is not in the Available state.**
- **E. The application is using a protocol that the NAT gateway does not support.**

Answer: D,E

Explanation:

<https://docs.aws.amazon.com/vpc/latest/userguide/nat-gateway-troubleshooting.html#nat-gateway-troubleshooting-no-internet-connection>

NEW QUESTION # 43

A SysOps administrator needs to set up alerting and remediation for a web application. The application consists of Amazon EC2 instances that have AWS Systems Manager Agent (SSM Agent) installed. Each EC2 instance runs a custom web server. The EC2 instances run behind a load balancer and write logs locally.

The SysOps administrator must implement a solution that restarts the web server software automatically if specific web errors are detected in the logs.

Which combination of steps will meet these requirements? (Choose three.)

- A. Publish alarm findings to Amazon Simple Email Service (Amazon SES). Invoke an AWS Lambda function to restart the web server software.
- B. Create an Amazon Simple Notification Service (Amazon SNS) notification that responds to the alarm. Configure the notification to invoke an AWS Systems Manager Automation runbook to restart the web server software.
- C. Create an Amazon CloudWatch metric filter for the web logs. Configure an alarm for the specific errors.
- D. Create an AWS CloudTrail metric filter for the web logs. Configure an alarm for the specific errors.
- E. Install the Amazon CloudWatch agent on the EC2 instances.
- F. Create an Amazon EventBridge rule that responds to the alarm. Configure the rule to invoke an AWS Systems Manager Automation runbook to restart the web server software.

Answer: C,E,F

Explanation:

Install the CloudWatch agent on the EC2 instances.

You need the CloudWatch agent to collect the custom web server logs from the instance and ship them into CloudWatch Logs.

Create an Amazon CloudWatch metric filter for the web logs and configure an alarm for the specific errors.

Define a metric filter on the log group that looks for your error patterns (for example, HTTP 5xx responses). Then set up a CloudWatch Alarm on that filter so it goes into ALARM state whenever the error count exceeds your threshold.

Create an Amazon EventBridge rule that responds to the alarm and invoke an AWS Systems Manager Automation runbook to restart the web server software.

Have EventBridge listen for the CloudWatch Alarm state change event, and target an SSM Automation runbook that uses, for example, the aws:runShellScript action on each instance to restart the web server. This provides a fully managed, auditable remediation path.

NEW QUESTION # 44

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