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Amazon AWS Certified SysOps Administrator - Associate (SOA-C02) Sample Questions (Q109-Q114):

NEW QUESTION # 109

A company runs an application on an Amazon EC2 instance. A SysOps administrator creates an Auto Scaling group and an Application Load Balancer (ALB) to handle an increase in demand.
However, the EC2 instances are failing the health check.
What should the SysOps administrator do to troubleshoot this issue?

- A. Verify the listener priority in the ALB.
  Change the priority if necessary.
- B. Verify that the Auto Scaling group is configured to use all AWS Regions.
- C. Verify that the application is running on the protocol and the port that the listener is expecting.
- D. Verify the maximum number of instances in the Auto Scaling group.Change the number if necessary.

Answer: C

Explanation:
Target.FailedHealthChecks
Verify that the target is listening for traffic on the health check port. You can use the ss command on Linux targets to verify which ports your server is listening on. For Windows targets, you can use the netstat command.
https://aws.amazon.com/premiumsupport/knowledge-center/elb-fix-failing-health-checks-alb/

NEW QUESTION # 110

A company observes that a newly created Amazon CloudWatch alarm is not transitioning out of the INSUFFICIENT_DATA state. The alarm was created to track the mem_used_percent metric from an Amazon EC2 instance that is deployed in a public subnet. A review of the EC2 instance shows that the unified CloudWatch agent is installed and is running. However, the metric is not available in CloudWatch. A SysOps administrator needs to implement a solution to resolve this problem Which solution will meet these requirements?

- A. Enable CloudWatch detailed monitoring for the EC2 instance.
- B. Create an 1AM user that has an access key ID and a secret access key. Update the unified CloudWatch agent configuration file to use those credentials.
- C. Migrate the EC2 instance into a private subnet
- D. Create an 1AM instance profile that contains CloudWatch permissions. Add the instance profile to the EC2 instance.

Answer: D

Explanation:
* Objective:
* Ensure the mem_used_percent metric from the EC2 instance is available in Amazon CloudWatch.
* Root Cause:
* The unified CloudWatch agent requires IAM permissions to publish custom metrics to CloudWatch.
* If an IAM instance profile is not attached or is missing necessary permissions, the metric will not appear in CloudWatch.
* Solution Implementation:
* Step 1: Create an IAM role with the required permissions:
* Use the AmazonCloudWatchAgentServerPolicy managed policy, which grants permissions for the CloudWatch agent to send metrics.
* Step 2: Create an IAM instance profile for the role.
* Step 3: Attach the instance profile to the EC2 instance.
* Step 4: Restart the unified CloudWatch agent on the EC2 instance to apply the changes:
bash
Copy code
sudo /opt/aws/amazon-cloudwatch-agent/bin/amazon-cloudwatch-agent-ctl -a stop sudo /opt/aws/amazon-cloudwatch-

agent/bin/amazon-cloudwatch-agent-ctl -a start
* AWS References:
* Unified CloudWatch Agent Configuration:CloudWatch Agent Permissions
* Why Other Options Are Incorrect:
* Option A: Enabling detailed monitoring only collects predefined metrics; it does not affect custom metrics like mem_used_percent.
* Option C: The subnet (public or private) does not affect the collection of metrics by the CloudWatch agent.
* Option D: Using IAM user credentials is not a best practice for EC2 instances; instance profiles are the recommended method.

NEW QUESTION # 111

A company runs an application that hosts critical data for several clients. The company uses AWS CloudTrail to track user activities on various AWS resources. To meet new security requirements, the company needs to protect the CloudTrail log files from being modified, deleted, or forged.

Which solution will meet these requirement?

- A. Use AWS Key Management Service (AWS KMS) security keys to secure the CloudTrail log files.
- B. Use Amazon S3 Versioning to keep all versions of the CloudTrail log files.
- C. Use Amazon S3 MFA Delete on the S3 bucket where the CloudTrail log files are stored.
- D. Enable CloudTrail log file integrity validation.

Answer: D

Explanation:
Enable CloudTrail log file integrity
Validated log files are especially valuable in security and forensic investigations. For example, a validated log file enables you to assert positively that the log file itself has not changed, or that particular user credentials performed specific API activity. The CloudTrail log file integrity validation process also lets you know if a log file has been deleted or changed, or assert positively that no log files were delivered to your account during a given period of time. CloudTrail log file integrity validation uses industry standard algorithms: SHA-256 for hashing and SHA-256 with RSA for digital signing. This makes it computationally unfeasible to modify, delete or forge CloudTrail log files without detection.
https://docs.aws.amazon.com/awscloudtrail/latest/userguide/best-practices-security.html

NEW QUESTION # 112

The SysOps administrator must modify the AWS Config rule that deletes noncompliant SSH inbound rules to update the rule to allow SSH from specific trusted IP addresses instead.
Options:

- A. Create an AWS Lambda function that adds an IP set to the security group's inbound rule. Update the AWS Config rule to change the automatic remediation action to use the Lambda function.
- B. Create a new AWS Systems Manager Automation runbook that adds an IP set to the security group's inbound rule. Update the AWS Config rule to change the automatic remediation action to use the new runbook.
- C. Create an AWS Lambda function that updates the security group's inbound rule with the IP addresses from the business units. Update the AWS Config rule to change the automatic remediation action to use the Lambda function.
- D. Create a new AWS Systems Manager Automation runbook that updates the security group's inbound rule with the IP addresses from the business units. Update the AWS Config rule to change the automatic remediation action to use the new runbook.

Answer: D

Explanation:
Using a Systems Manager Automation runbook is appropriate for managing security group rules within the AWS Config remediation framework. A runbook provides a reusable, automated solution that can update the security group rule based on an IP list.
Automation Runbook for Security Group Updates: A runbook can automate security group modifications, such as adding the trusted IP addresses specified by the business units.
AWS Config Integration:Config rules can be set to use this runbook for automatic remediation, ensuring that the rule is updated without deleting it, which aligns with the requirement for SSH access from specific IPs.
Lambda functions could work but would require additional customization and complexity, making the runbook a more manageable and scalable solution for this task.

NEW QUESTION # 113

A SysOps administrator is helping a development team deploy an application to AWS Trie AWS CloudFormat on temp ate includes an Amazon Linux EC2 Instance an Amazon Aurora DB cluster and a hard coded database password that must be rotated every 90 days What is the MOST secure way to manage the database password?

- A. Use the AWS SecretsManager Secret resource with the GenerateSecretString property to automatically generate a password Use the AWS SecretsManager RotationSchedule resource lo define a rotation schedule lor the password Configure the application to retrieve the secret from AWS Secrets Manager access the database
- B. Use the AWS SSM Parameter resource Accept input as a Cloudformetton parameter to store the parameter as a string Configure the application to retrieve the parameter from AWS Systems Manager Parameter Store to access the database
- C. Use me AWS SecretsManager Secret resource with the SecretStrmg property Accept a password as a CloudFormation parameter Use the AllowedPatteen property of the CloudFormaton parameter to require e minimum length, uppercase and lowercase letters and special characters Configure me application to retrieve the secret from AWS Secrets Manager to access the database
- D. Use the AWS SSM Parameter resource Accept input as a Qoudformatton parameter to store the parameter as a secure sting Configure the application to retrieve the parameter from AWS Systems Manager Parameter Store to access the database

Answer: A

Explanation:
Step-by-Step Explanation:
* Understand the Problem:
* Manage a database password securely and rotate it every 90 days.
* Analyze the Requirements:
* Ensure secure management and automatic rotation of the database password.
* Minimize manual intervention and risk of exposing the password.
* Evaluate the Options:
* Option A: Use the AWS SecretsManager Secret resource with the GenerateSecretString property.
* Secrets Manager can automatically generate a strong password.
* The RotationSchedule resource defines a rotation schedule to rotate the password every 90 days.
* Option B: Use the AWS SecretsManager Secret resource with the SecretString property.
* Requires accepting a password as a CloudFormation parameter and does not automate password generation.
* Option C: Use the AWS SSM Parameter resource.
* AWS Systems Manager Parameter Store can store secure strings, but it does not support automatic rotation.
* Option D: Use the AWS SSM Parameter resource without secure string.
* This option does not offer the security of Secrets Manager and does not support automatic rotation.
* Select the Best Solution:
* Option A: Using AWS Secrets Manager with the GenerateSecretString property and RotationSchedule resource ensures secure management and automatic rotation of the database password.
AWS Secrets Manager
Rotate AWS Secrets Manager Secrets
AWS Secrets Manager provides secure storage, automatic rotation, and seamless integration with applications for accessing secrets.

NEW QUESTION # 114

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