How to Prepare For SOA-C02 AWS Certified SysOps Administrator - Associate (SOA-C02) Exam?

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The SOA-C02 exam is the updated version of the SOA-C01 exam, which was retired in July 2021. The new exam features updated content, including new services and features introduced by AWS. SOA-C02 exam is currently available in English, Japanese, Korean, and Simplified Chinese. SOA-C02 Exam is conducted in a proctored environment and can be taken online or in-person at a testing center.

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The Amazon SOA-C02 Exam consists of 65 multiple-choice and multiple-response questions that must be completed within 130 minutes. SOA-C02 exam fee is $150, and it can be taken at any authorized testing center or online with a remote proctor. Passing SOA-C02 exam demonstrates your proficiency in AWS services and your ability to design and deploy scalable, highly available, and fault-tolerant systems on the AWS platform. Obtaining this certification can enhance your career opportunities and demonstrate your commitment to continuous learning and professional development in the field of AWS.

Amazon AWS Certified SysOps Administrator - Associate (SOA-C02) Sample Questions (Q650-Q655):

NEW QUESTION # 650
A company hosts an application on an Amazon EC2 instance in a single AWS Region. The application requires support for non-HTTP TCP traffic and HTTP traffic.
The company wants to deliver content with low latency by leveraging the AWS network. The company also wants to implement an Auto Scaling group with an Elastic Load Balancer.
How should a SysOps administrator meet these requirements?

- A. Create an Auto Scaling group with a Network Load Balancer (NLB).Add an accelerator with AWS Global Accelerator with the NLB as an endpoint.

- B. Create an Auto Scaling group with an Application Load Balancer (ALB).
  Add an Amazon CloudFront distribution with the ALB as the origin.
- C. Create an Auto Scaling group with an Application Load Balancer (ALB).
  Add an accelerator with AWS Global Accelerator with the ALB as an endpoint.
- D. Create an Auto Scaling group with a Network Load Balancer (NLB).
  Add an Amazon CloudFront distribution with the NLB as the origin.

Answer: A

Explanation:
AWS Global Accelerator and Amazon CloudFront are separate services that use the AWS global network and its edge locations around the world. CloudFront improves performance for both cacheable content (such as images and videos) and dynamic content (such as API acceleration and dynamic site delivery). Global Accelerator improves performance for a wide range of applications over TCP or UDP by proxying packets at the edge to applications running in one or more AWS Regions. Global Accelerator is a good fit for non-HTTP use cases, such as gaming (UDP), IoT (MQTT), or Voice over IP, as well as for HTTP use cases that specifically require static IP addresses or deterministic, fast regional failover. Both services integrate with AWS Shield for DDoS protection.
https://aws.amazon.com/global-accelerator/faqs/?nc1=h_ls

NEW QUESTION # 651
The company's ecommerce website running on EC2 instances behind an ALB intermittently returns HTTP 500 errors. The Auto Scaling group is only using EC2 status checks.
Options:

- A. Add Elastic Load Balancing (ELB) health checks to the Auto Scaling group.
- B. Replace the ALB with a Network Load Balancer.
- C. Install the Amazon CloudWatch agent on all the instances. Configure the agent to reboot the instances.
- D. Update the target group configuration on the ALB. Enable session affinity (sticky sessions).

Answer: A

Explanation:
Using ALB health checks in the Auto Scaling group will provide more accurate health monitoring and replace instances if they are unhealthy.
ALB Health Checks: Configure health checks based on HTTP response codes, which will detect application-level issues causing the HTTP 500 errors and replace instances as needed.
EC2 vs. ALB Health Checks: EC2 status checks only verify instance hardware and OS, not the application's responsiveness. By using ALB health checks, Auto Scaling can remove instances that are failing at the application level, thus preventing users from receiving 500 errors.
Replacing the ALB with a Network Load Balancer does not address HTTP 500 errors, and enabling session affinity does not resolve application health issues. The CloudWatch agent would not provide the required health check functionality for automated instance replacement.

NEW QUESTION # 652
A company is creating a new multi-account environment in AWS Organizations. The company will use AWS Control Tower to deploy the environment. Users must be able to create resources in approved AWS Regions only. The company must configure and govern all accounts by using a standard baseline configuration Which combination of steps will meet these requirements in the MOST operationally efficient way? (Select TWO.)

- A. Modify the AWS Control Tower landing zone settings to govern the approved Regions.
- B. Create a permission set and a custom permissions policy in AWS IAM Identity Center (AWS Single Sign-On) for each user to prevent each user from creating resources in unapproved Regions.
- C. Implement a service control policy (SCP) to deny any access to AWS based on the requested Region.
- D. Deploy AWS Config rules in each AWS account to govern the account's security compliance and to delete any resources that are created in unapproved Regions.
- E. Deploy AWS Lambda functions to configure security settings across all accounts in the organization and to delete any resources that are created in unapproved Regions.

Answer: A,C

Explanation:
To restrict resource creation in unapproved regions across multiple AWS accounts efficiently, combining SCPs and Control Tower settings is effective:
* SCP for Regional Restrictions: Create and apply an SCP that explicitly denies access to AWS services in unapproved regions. This policy will enforce region-based restrictions at the organizational unit or account level.
* Control Tower Regional Governance: Adjust the settings in AWS Control Tower's landing zone to include governance for approved regions. This helps in maintaining a standard configuration that aligns with organizational policies regarding AWS regions.
AWS Documentation Reference:For more information, check the AWS documentation on SCPs and AWS Control Tower:
* Service Control Policies
* AWS Control Tower.

NEW QUESTION # 653
A company has a Python script that needs to send an SMS message to a monitoring center. A SysOps administrator must use Amazon EventBridge and AWS Lambda to automatically run the Python script every
60 minutes. Which solution will meet these requirements?

- A. Configure an EventBridge event pattern rule to invoke a Lambda function that runs the Python script. Program the Lambda function to make an API call to send a notification to an Amazon Simple Queue Service (Amazon SQS) queue.
- B. Configure a schedule in EventBridge Scheduler to invoke a Lambda function that runs the Python script. Program the Lambda function to make an API call to send a notification to an Amazon Simple Queue Service (Amazon SQS) queue.
- C. Configure a schedule in EventBridge Scheduler to invoke a Lambda function that runs the Python script. Program the Lambda function to make an API call to send a notification to an Amazon Simple Notification Service (Amazon SNS) topic. Subscribe the appropriate phone number to the SNS topic.
- D. Configure an EventBridge event pattern rule to invoke a Lambda function that runs the Python script. Program the Lambda function to make an API call to send a notification to an Amazon Simple Notification Service (Amazon SNS) topic. Subscribe the appropriate phone number to the SNS topic.

Answer: C

Explanation:
This question is about:
* Running a script every 60 minutes
* Sending an SMS message
From the Amazon EventBridge Scheduler Documentation:
EventBridge Scheduler provides cron-based scheduling, and is the recommended tool for time-based invocations (replacing CloudWatch Events for most new use cases).
From the Amazon SNS Documentation:
SNS can send SMS messages by publishing to a topic that has a phone number subscribed.

NEW QUESTION # 654
A large company is using AWS Organizations to manage its multi-account AWS environment. According to company policy, all users should have read-level access to a particular Amazon S3 bucket in a central account. The S3 bucket data should not be available outside the organization. A SysOps administrator must set up the permissions and add a bucket policy to the S3 bucket. Which parameters should be specified to accomplish this in the MOST efficient manner?

- A. Specify the organization's management account as the principal.
- B. Specify PrincipalOrgId as the principal.
- C. Specify all account numbers as the principal.
- D. Specify '*' as the principal and PrincipalOrgId as a condition.

Answer: D

Explanation:
To ensure that all users within the AWS Organization have read-level access to a specific Amazon S3 bucket, while preventing access outside the organization, you can specify a wildcard principal ("Principal": "*") and use the PrincipalOrgId condition key in the bucket policy.
* Specify the Principal:
* Use "Principal": "*". This means that any principal can access the bucket, but the actual access will be controlled by the condition.

* Add Condition with PrincipalOrgId:
* Add a condition to restrict access based on the PrincipalOrgId. This condition ensures that only the principals from the specified AWS Organization can access the bucket.
* Example bucket policy:

```
{
"Version": "2012-10-17",
"Statement": [
{
"Effect": "Allow",
"Principal": "*",
"Action": "s3:GetObject",
"Resource": "arn:aws:s3:::bucket-name/*",
"Condition": {
"StringEquals": {
"aws:PrincipalOrgID": "o-exampleorgid"
}
}
}
]
}
```

Reference: Bucket Policy Examples
This approach ensures that all users within the organization have the required access while blocking access from outside the organization.

NEW QUESTION # 655
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