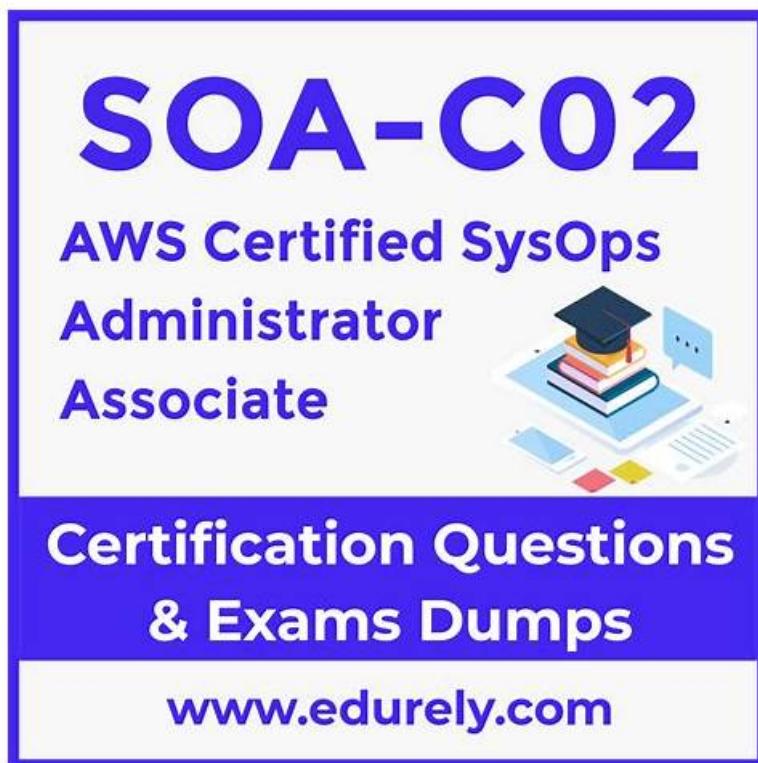


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Amazon SOA-C02 (AWS Certified SysOps Administrator - Associate) Certification Exam is designed for professionals who work with AWS services and solutions. AWS Certified SysOps Administrator - Associate (SOA-C02) certification exam validates the skills and knowledge required to deploy, manage, and operate scalable, highly available, and fault-tolerant systems on AWS. The SOA-C02 exam is suitable for individuals who have at least one year of experience in managing AWS systems.

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Amazon AWS Certified SysOps Administrator - Associate (SOA-C02) Sample Questions (Q234-Q239):

NEW QUESTION # 234

An Amazon EC2 instance is running an application that uses Amazon Simple Queue Service (Amazon SQS) queues. A SysOps administrator must ensure that the application can read, write, and delete messages from the SQS queues. Which solution will meet these requirements in the MOST secure manner?

- A. Create and associate an IAM role that allows EC2 instances to call AWS services. Attach an IAM policy to the role that allows the sqs SendMessage permission, the sqs ReceiveMessage permission, and the sqs DeleteMessage permission to the appropriate queues.
- B. Create an IAM user with an IAM policy that allows the sqs SendMessage permission, the sqs ReceiveMessage permission, and the sqs DeleteMessage permission to the appropriate queues. Export the IAM user's access key and secret access key as environment variables on the EC2 instance.
- C. Create an IAM user with an IAM policy that allows the sqs SendMessage permission, the sqs ReceiveMessage permission, and the sqs DeleteMessage permission to the appropriate queues. Embed the IAM user's credentials in the application's configuration.
- D. Create and associate an IAM role that allows EC2 instances to call AWS services. Attach an IAM policy to the role that allows sqs." permissions to the appropriate queues.

Answer: A

Explanation:

To ensure that the application running on an Amazon EC2 instance can read, write, and delete messages from the SQS queues in the most secure manner, the recommended approach is to use IAM roles for EC2 instances. This approach avoids the need to embed or export long-term AWS credentials, which can be a security risk.

Create an IAM Role for EC2:

Navigate to the IAM console in the AWS Management Console.

Choose "Roles" in the navigation pane, then click "Create role".

Select "AWS service" as the type of trusted entity and choose "EC2" as the use case. Click "Next: Permissions".

Attach the Required Permissions:

On the "Attach permissions policies" page, you can either select an existing policy or create a custom policy.

For a custom policy, click "Create policy" and use the following JSON policy to allow the required SQS actions:

json

Copy code

```
{  
  "Version": "2012-10-17",  
  "Statement": [  
    {  
      "Effect": "Allow",  
      "Action": [  
        "sns:SendMessage",  
        "sns:ReceiveMessage",  
        "sns:DeleteMessage"  
      ],  
      "Resource": "arn:aws:sns:region:account-id:queue-name"  
    }  
  ]  
}
```

Replace region, account-id, and queue-name with appropriate values for your SQS queues.

Assign the Role to the EC2 Instance:

After creating the role with the necessary permissions, navigate to the EC2 console.

Select the instance that needs access to the SQS queues.

In the "Actions" menu, choose "Security", then "Modify IAM role".

Attach the newly created IAM role to the instance.

Verify the Permissions:

Ensure that the IAM role is properly attached to the EC2 instance.

Test the application to confirm that it can successfully perform the required actions (read, write, delete) on the SQS queues.

Reference:

IAM Roles for Amazon EC2

Amazon SQS Policy Examples

NEW QUESTION # 235

A company has multiple AWS Site-to-Site VPN connections between a VPC and its branch offices. The company manages an Amazon Elasticsearch Service (Amazon ES) domain that is configured with public access. The Amazon ES domain has an open domain access policy. A SysOps administrator needs to ensure that Amazon ES can be accessed only from the branch offices while preserving existing data.

Which solution will meet these requirements?

- A. Deploy a new Amazon ES domain in private subnets in a VPC, and import a snapshot from the old domain. Create a security group that allows inbound traffic from the branch office CIDR blocks.
- B. Configure an identity-based access policy on Amazon ES. Add an allow statement to the policy that includes the Amazon Resource Name (ARN) for each branch office VPN connection.
- C. **Configure an IP-based domain access policy on Amazon ES. Add an allow statement to the policy that includes the private IP CIDR blocks from each branch office network.**

Answer: C

Explanation:

D.

Reconfigure the Amazon ES domain in private subnets in a VPC. Create a security group that allows inbound traffic from the branch office CIDR blocks.

NEW QUESTION # 236

A company runs its entire suite of applications on Amazon EC2 instances. The company plans to move the applications to containers and AWS Fargate. Within 6 months, the company plans to retire its EC2 instances and use only Fargate. The company has been able to estimate its future Fargate costs.

A SysOps administrator needs to choose a purchasing option to help the company minimize costs. The SysOps administrator must maximize any discounts that are available and must ensure that there are no unused reservations.

Which purchasing option will meet these requirements?

- A. EC2 Instance Savings Plans for 1 year with the All Upfront payment option
- B. EC2 Reserved Instances for 1 year with the Partial Upfront payment option
- C. Compute Savings Plans for 1 year with the Partial Upfront payment option
- D. **Compute Savings Plans for 1 year with the No Upfront payment option**

Answer: D

Explanation:

To minimize costs while moving from EC2 instances to AWS Fargate, Compute Savings Plans are the most flexible and cost-effective option. Compute Savings Plans apply to a variety of compute services including AWS Fargate, Amazon EC2, and AWS Lambda, allowing for greater flexibility in managing costs as the company transitions to using only Fargate.

Compute Savings Plans:

Savings Plans provide significant savings over On-Demand pricing, up to 66% savings.

Compute Savings Plans offer the flexibility to move across instance types, AWS Regions, and operating systems.

Payment Options:

The No Upfront payment option provides the most flexibility and avoids large upfront capital expenditures.

The Partial Upfront payment option offers more savings but requires an initial payment.

1-Year Term:

A 1-year term is suitable for the company's 6-month transition period, allowing for cost savings without a long-term commitment.

Reference:

AWS Savings Plans

Compute Savings Plans

NEW QUESTION # 237

A company is creating a new multi-account architecture. A Sysops administrator must implement a login solution to centrally manage user access and permissions across all AWS accounts. The solution must be integrated with AWS Organizations and must be connected to a third-party Security Assertion Markup Language (SAML) 2.0 identity provider (IdP). What should the SysOps administrator do to meet these requirements?

- A. Integrate the third-party IdP directly with AWS Organizations.
- B. Federate the third-party IdP with AWS Identity and Access Management (IAM) for each AWS account in the organization.
- C. Enable and configure AWS Single Sign-On with the third-party IdP.
- D. **Configure an Amazon Cognito user pool. Integrate the user pool with the third-party IdP.**

Answer: D

NEW QUESTION # 238

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

Answer: D

Explanation:

Step-by-Step Explanation:

* Understand the Problem:

* Ensure all users in the organization have read-level access to a specific S3 bucket.

* The data should not be accessible outside the organization.

* Analyze the Requirements:

* Grant read access to users within the organization.

* Prevent access from outside the organization.

* Evaluate the Options:

* Option A: Specify "*" as the principal and PrincipalOrgId as a condition.

* This grants access to all AWS principals but restricts it to those within the specified organization using the PrincipalOrgId condition.

* Option B: Specify all account numbers as the principal.

* This is impractical for a large organization and requires constant updates if accounts are added or removed.

* Option C: Specify PrincipalOrgId as the principal.

* The PrincipalOrgId condition must be used within a policy, not as a principal.

* Option D: Specify the organization's management account as the principal.

* This grants access only to the management account, not to all users within the organization.

* Select the Best Solution:

* Option A: Using "*" as the principal with the PrincipalOrgId condition ensures all users within the organization have the required access while preventing external access.

Amazon S3 Bucket Policies

AWS Organizations Policy Examples

Using "*" as the principal with the PrincipalOrgId condition efficiently grants read access to the S3 bucket for all users within the organization.

NEW QUESTION # 239

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