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## Amazon AWS Certified SysOps Administrator - Associate (SOA-C02) Sample Questions (Q379-Q384):

### NEW QUESTION # 379

A company's backend infrastructure contains an Amazon EC2 instance in a private subnet. The private subnet has a route to the internet through a NAT gateway in a public subnet. The instance must allow connectivity to a secure web server on the internet to retrieve data at regular intervals.

The client software times out with an error message that indicates that the client software could not establish the TCP connection. What should a SysOps administrator do to resolve this error?

- A. Add an inbound rule to the security group for the EC2 instance with the following parameters: Type - HTTP, Source - 0.0.0.0/0.
- **B. Add an outbound rule to the security group for the EC2 instance with the following parameters: Type - HTTPS, Destination - 0.0.0.0/0.**
- C. Add an inbound rule to the security group for the EC2 instance with the following parameters: Type - HTTPS, Source - 0.0.0.0/0.
- D. Add an outbound rule to the security group for the EC2 instance with the following parameters: Type - HTTP, Destination - 0.0.0.0/0.

**Answer: B**

Explanation:

To allow the EC2 instance in the private subnet to establish a secure connection to an external web server, follow these steps:

Modify Security Group:

Add an outbound rule to the security group of the EC2 instance with the following parameters:

Type: HTTPS

Destination: 0.0.0.0/0

This allows outbound HTTPS traffic to the internet.

Reference:

Ensure NAT Gateway Configuration:

Ensure that the NAT gateway is properly configured in the public subnet to allow internet access for the instances in the private subnet.

This configuration will resolve the connectivity issue.

### NEW QUESTION # 380

A SysOps administrator is responsible for managing a fleet of Amazon EC2 instances. These EC2 instances upload build artifacts to a third-party service. The third-party service recently implemented a strict IP allow list that requires all build uploads to come from a single IP address.

What change should the systems administrator make to the existing build fleet to comply with this new requirement?

- A. Move all of the EC2 instances to a peered VPC and provide the VPC IP address to the service.
- **B. Move all of the EC2 instances behind a NAT gateway and provide the gateway IP address to the service.**
- C. Move all of the EC2 instances behind an internet gateway and provide the gateway IP address to the service.
- D. Move all of the EC2 instances into a single Availability Zone and provide the Availability Zone IP address to the service.

**Answer: B**

Explanation:

To ensure all EC2 instances upload build artifacts through a single IP address:

A: Move all of the EC2 instances behind a NAT gateway. Provide the IP address of the NAT gateway to the third-party service for the allow list. A NAT gateway enables instances in a private subnet to connect to services outside AWS (such as a third-party service) but prevents the internet from initiating connections with those instances. Using a NAT gateway standardizes all outgoing traffic to use a single IP address. More information on NAT gateways can be found in AWS documentation NAT Gateways.

### NEW QUESTION # 381

A SysOps administrator is helping a development team deploy an application to AWS. The AWS CloudFormation template 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 to define a rotation schedule for the password. Configure the application to retrieve the secret from AWS Secrets Manager to access the database.**
- B. Use the AWS SSM Parameter resource. Accept input as a CloudFormation parameter to store the parameter as a secure string. Configure the application to retrieve the parameter from AWS Systems Manager Parameter Store to access the database.
- C. Use the AWS SecretsManager Secret resource with the SecretString property. Accept a password as a CloudFormation parameter. Use the AllowedPattern property of the CloudFormation parameter to require a minimum length, uppercase and lowercase letters, and special characters. Configure the application to retrieve the secret from AWS Secrets Manager to access the database.
- D. Use the AWS SSM Parameter resource. Accept input as a CloudFormation 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.

**Answer: A**

### NEW QUESTION # 382

A company's security policy states that connecting to Amazon EC2 instances is not permitted through SSH and RDP. If access is

required, authorized staff can connect to instances by using AWS Systems Manager Session Manager.

Users report that they are unable to connect to one specific Amazon EC2 instance that is running Ubuntu and has AWS Systems Manager Agent (SSM Agent) pre-installed. These users are able to use Session Manager to connect to other instances in the same subnet, and they are in an IAM group that has Session Manager permission for all instances.

What should a SysOps administrator do to resolve this issue?

- A. Add an inbound rule for port 22 in the security group associated with the Ubuntu instance.
- B. Configure the SSM Agent to log in with a user name of "ubuntu".
- **C. Assign the AmazonSSMManagedInstanceCore managed policy to the EC2 instance profile for the Ubuntu instance.**
- D. Generate a new key pair, configure Session Manager to use this new key pair, and provide the private key to the users.

**Answer: C**

Explanation:

If users are unable to connect to a specific Ubuntu EC2 instance using AWS Systems Manager Session Manager while other instances are accessible, the issue is likely due to IAM permissions:

Instance Profile Permissions: Ensure that the EC2 instance has the necessary IAM permissions to interact with Systems Manager. The AmazonSSMManagedInstanceCore managed policy includes permissions required for the SSM Agent on the instance to communicate with the AWS Systems Manager service.

Attach Managed Policy: Attach the AmazonSSMManagedInstanceCore policy to the IAM role that is associated with the Ubuntu instance's instance profile. This step is crucial as it authorizes the instance to use Systems Manager services, including Session Manager.

Verify Configuration and Connectivity: After updating the instance profile, verify that users can connect via Session Manager. This solution does not require any changes to network security settings like security groups.

By ensuring that the instance has the appropriate IAM permissions, you resolve issues related to access control and Systems Manager functionality, allowing authorized personnel to connect securely without using SSH or RDP.

### NEW QUESTION # 383

A SysOps administrator created an AWS CloudFormation template that provisions Amazon EC2 instances, an Elastic Load Balancer (ELB), and an Amazon RDS DB instance. During stack creation, the creation of the EC2 instances and the creation of the ELB are successful. However, the creation of the DB instance fails.

What is the default behavior of CloudFormation in this scenario?

- A. CloudFormation will roll back the stack but will not delete the stack.
- **B. CloudFormation will roll back the stack and delete the stack.**
- C. CloudFormation will prompt the user to roll back the stack or continue.
- D. CloudFormation will successfully complete the stack but will report a failed status for the DB instance.

**Answer: B**

Explanation:

The default behavior of AWS CloudFormation when the creation of a resource fails is to roll back the stack and delete the stack.

\* Stack Creation Failure:

\* If any resource within the stack fails to create, CloudFormation rolls back the stack by deleting all the resources that were successfully created up to the point of failure.

\* This ensures that no partially created resources are left in the user's account.

\* Review the Events:

\* Open the CloudFormation console.

\* Select the stack and review the "Events" tab to identify the cause of the failure.

\* References:

\* AWS CloudFormation Stack Rollback

\* Troubleshooting AWS CloudFormation

### NEW QUESTION # 384

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